

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P198568

Luminaire Tested: **XNV-AF-01-LED-U-SL4-7030-1200-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198568
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24285)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: XNV-AF-01-LED-U-SL4-7030-1200-HSS
Description: XNV ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 1200mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4785 lumens
Efficiency: N/A
Efficacy: 72.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B0 - U0 - G2

Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

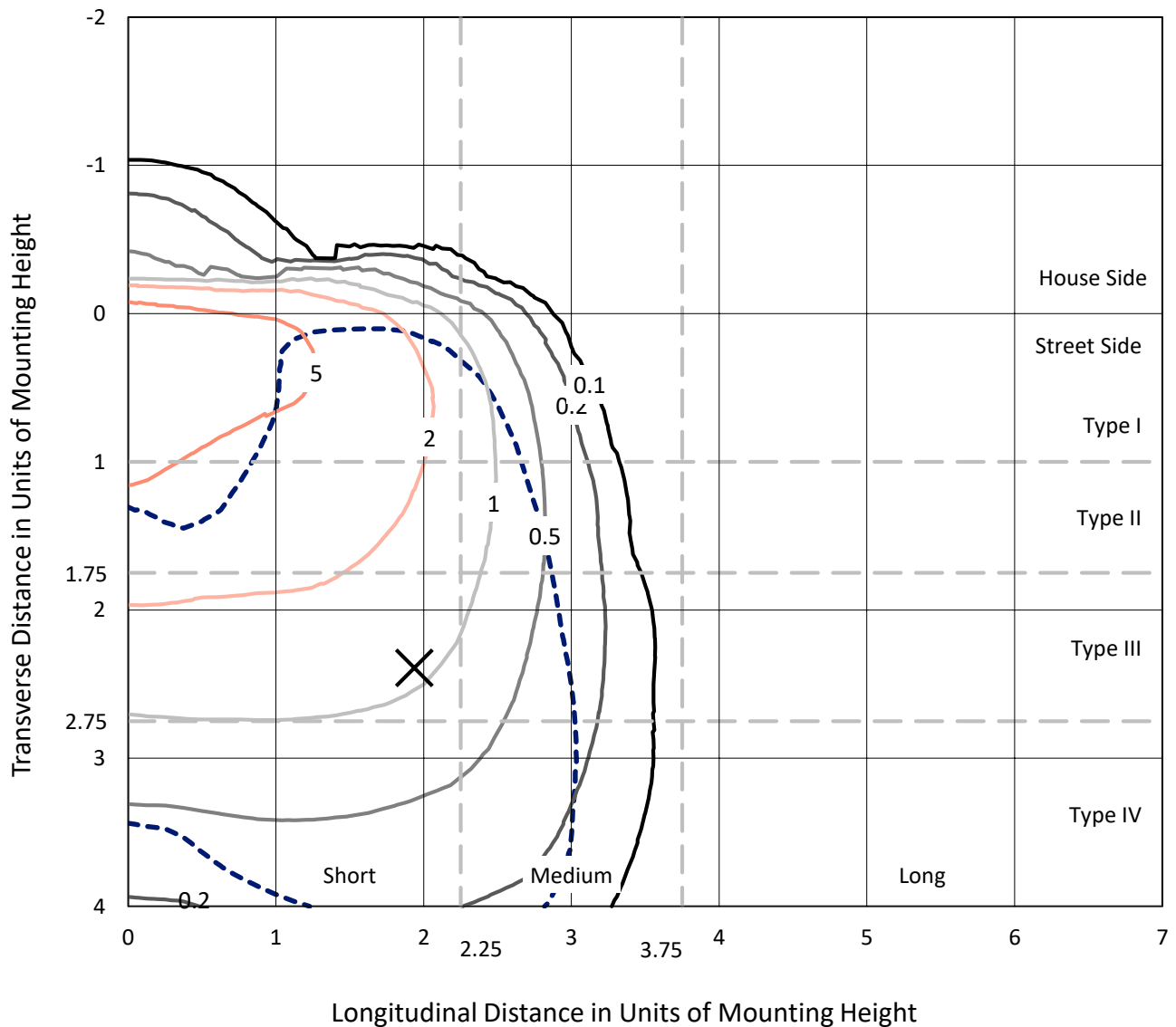


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

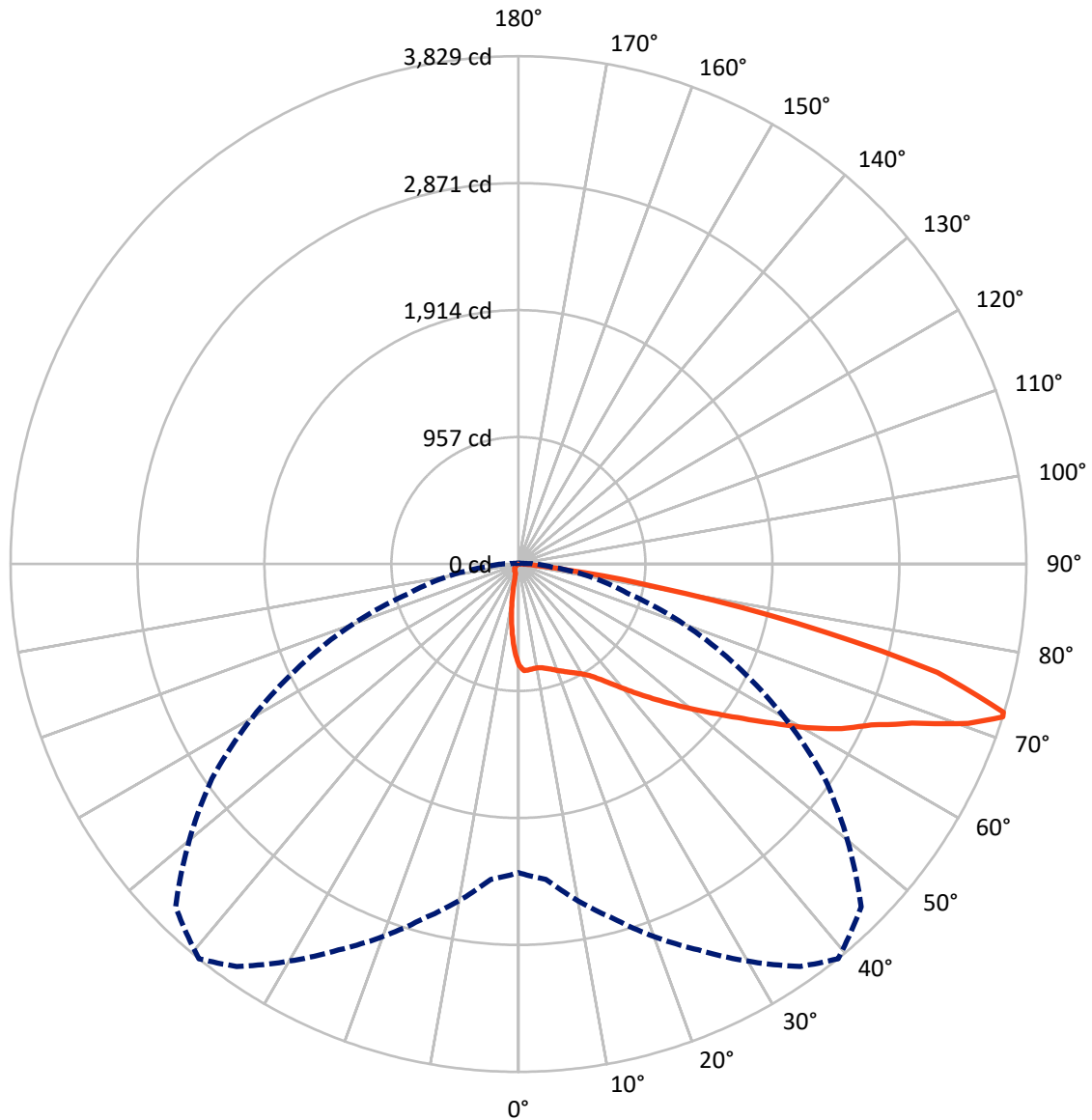


Based on 10 foot mounting height. Maximum calculated value = 8 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

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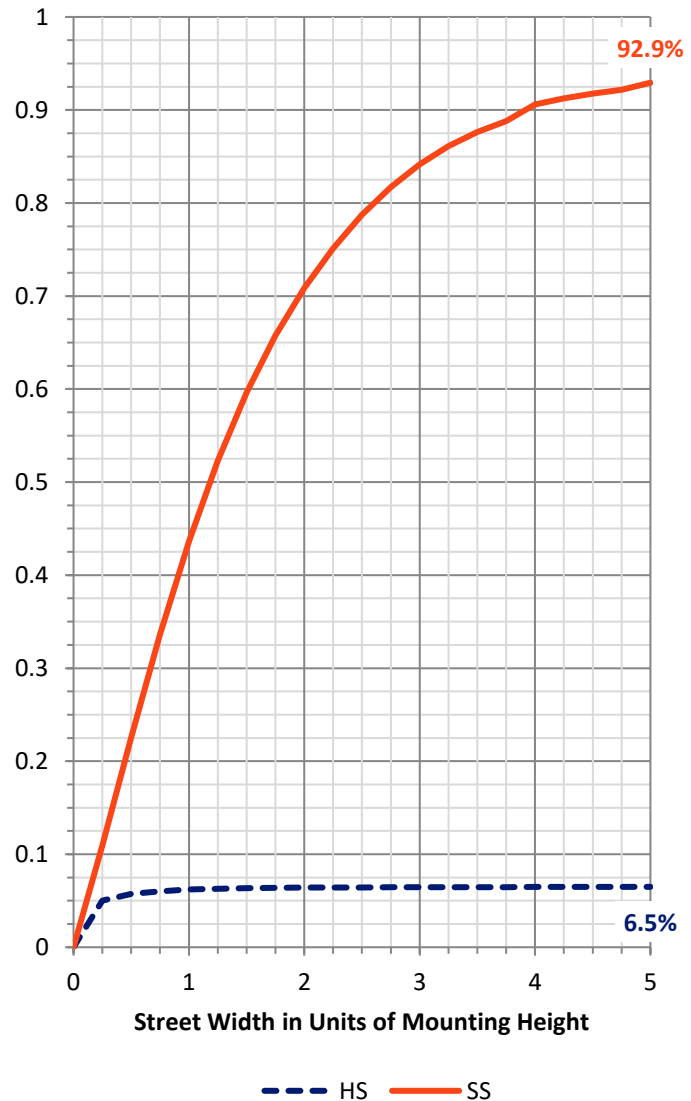
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	313.6	0.0	313.6
	% Fixture	6.6	0.0	6.6
Street Side	Lumens	4471.4	0.0	4471.4
	% Fixture	93.4	0.0	93.4
Total	Lumens	4785.0	0.0	4785.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.3	1.3
10°-20°	150.8	3.2
20°-30°	250.5	5.2
30°-40°	399.2	8.3
40°-50°	658.9	13.8
50°-60°	995.1	20.8
60°-70°	1296.3	27.1
70°-80°	875.9	18.3
80°-90°	95.9	2.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	4785.0	100.0
0°-180°	4785.0	100.0

Coefficient of Utilization



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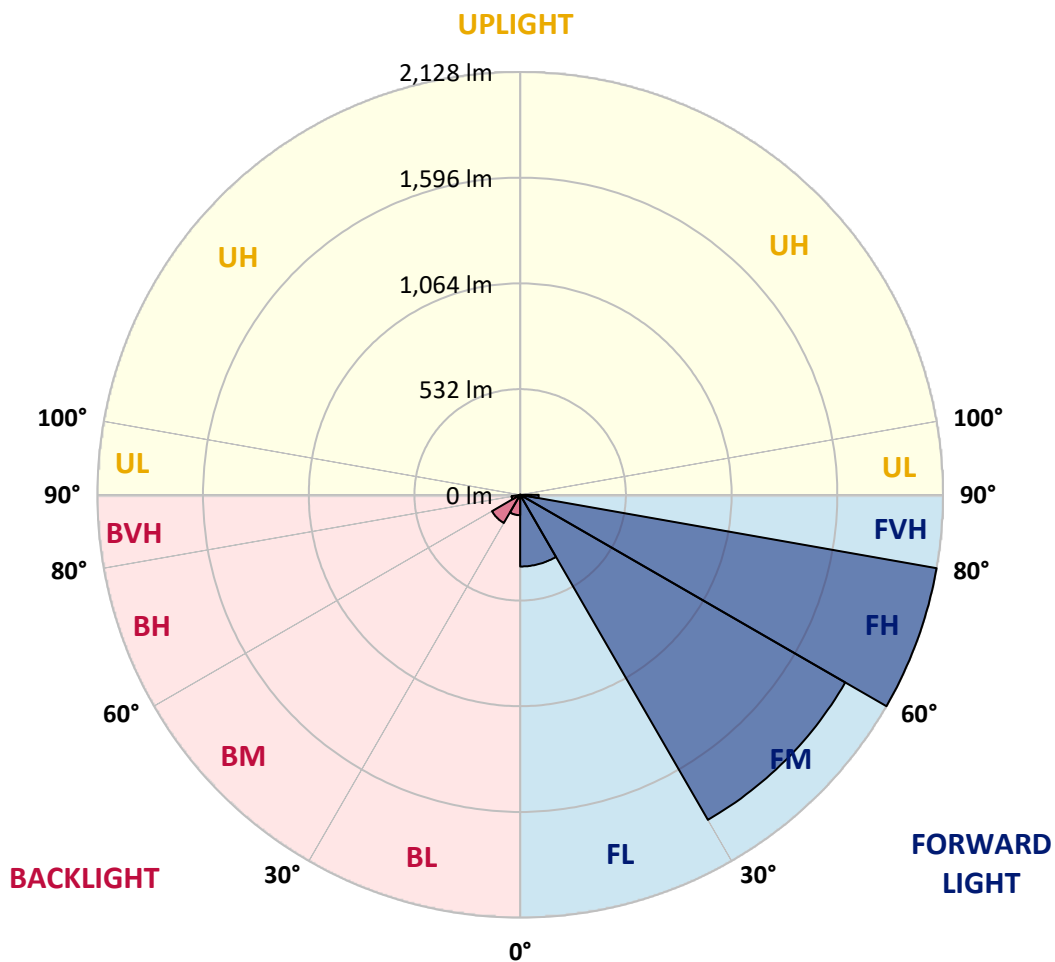
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	360.9	7.5			
FM (30°-60°)	1889.2	39.5			
FH (60°-80°)	2128.1	44.5			G2/5000
FVH (80°-90°)	93.2	1.9			G1/100
BL (0°-30°)	102.7	2.1	B0/110		
BM (30°-60°)	164.1	3.4	B0/220		
BH (60°-80°)	44.1	0.9	B0/110		G0/110
BVH (80°-90°)	2.8	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	765.9	765.9	765.9	765.9	765.9	765.9	765.9	765.9	765.9	765.9	765.9
2.5°	815.5	817.0	815.1	811.8	806.9	803.9	799.7	790.7	779.4	769.6	758.3
5°	821.9	822.7	820.4	814.0	806.5	802.4	797.1	787.3	775.7	762.1	741.8
7.5°	823.8	823.4	820.8	812.9	801.2	796.0	786.9	774.9	762.9	750.4	727.5
10°	823.0	823.0	821.2	813.6	800.5	795.6	785.4	772.6	757.6	745.2	720.7
12.5°	820.4	821.9	820.8	816.7	806.9	803.1	794.1	781.3	767.0	754.2	728.3
15°	823.8	826.1	828.3	826.8	821.2	817.8	809.5	796.3	784.7	771.1	743.3
17.5°	837.3	842.2	847.5	847.9	841.9	835.8	826.4	812.9	801.6	789.2	759.1
20°	862.9	866.7	876.5	878.3	866.3	857.7	844.5	828.7	817.4	806.9	773.8
22.5°	900.9	905.1	913.0	910.3	890.0	879.8	863.3	845.2	833.6	827.6	790.7
25°	958.5	959.6	961.5	949.8	916.3	905.1	884.7	864.4	855.0	854.3	814.8
27.5°	1026.2	1027.7	1019.4	993.4	945.7	931.0	908.1	889.6	885.1	890.8	845.2
30°	1103.7	1104.0	1081.1	1039.0	979.5	963.4	939.7	919.3	923.5	937.4	884.4
32.5°	1183.0	1179.3	1147.7	1092.8	1025.8	1006.2	985.9	965.6	977.7	1005.9	941.5
35°	1255.6	1254.1	1216.9	1152.9	1086.0	1068.7	1054.0	1032.6	1052.1	1098.0	1019.4
37.5°	1328.2	1327.1	1284.6	1218.0	1160.1	1147.7	1136.8	1120.2	1152.2	1219.5	1123.6
40°	1408.4	1406.5	1354.2	1290.2	1246.2	1239.5	1233.1	1225.9	1280.5	1374.1	1253.4
42.5°	1507.3	1499.0	1427.9	1368.9	1341.0	1342.9	1343.3	1350.4	1435.8	1558.1	1406.5
45°	1620.9	1602.5	1502.0	1453.1	1445.2	1456.5	1467.8	1497.5	1616.8	1769.9	1575.8
47.5°	1731.1	1701.4	1587.4	1543.8	1560.0	1583.3	1610.4	1668.3	1819.9	1991.4	1729.2
50°	1825.9	1795.4	1672.0	1635.9	1687.5	1722.1	1770.2	1857.9	2034.3	2178.7	1825.9
52.5°	1900.4	1876.3	1761.6	1737.5	1828.9	1876.3	1951.9	2067.0	2236.7	2302.1	1893.6
55°	1955.3	1943.3	1847.3	1850.7	1986.1	2054.6	2148.6	2278.8	2407.5	2398.0	1944.4
57.5°	2017.4	2008.0	1937.2	1984.3	2175.4	2263.8	2372.5	2477.0	2531.6	2475.2	1994.0
60°	2080.9	2083.9	2046.3	2146.0	2409.3	2507.1	2601.9	2627.9	2638.0	2553.4	2046.3
62.5°	2129.1	2141.9	2145.3	2320.6	2649.3	2732.8	2773.8	2755.4	2753.1	2658.4	2042.2
65°	2184.4	2217.9	2273.5	2512.0	2867.5	2922.4	2951.8	2978.5	2922.0	2689.6	1841.3
67.5°	2279.9	2332.6	2457.9	2746.8	3119.5	3200.8	3283.9	3255.7	2947.2	2372.5	1402.7
70°	2408.6	2472.9	2694.1	3053.3	3461.5	3597.6	3667.2	3233.5	2502.2	1639.3	739.9
72°	2327.3	2385.6	2767.1	3209.8	3703.7	3828.6	3654.4	2820.5	1813.9	849.8	247.9
72.5°	2248.3	2308.5	2743.7	3207.9	3727.8	3823.3	3571.3	2657.6	1605.1	661.3	170.8
75°	1560.0	1635.9	2352.2	2883.7	3366.3	3261.3	2732.5	1609.2	581.5	113.6	56.4
77.5°	806.5	865.2	1426.8	2037.7	2346.1	2148.6	1614.9	698.2	161.0	60.2	37.2
80°	499.9	528.9	667.3	1004.0	1218.8	1066.0	712.5	282.1	103.1	35.7	29.7
82.5°	258.8	281.0	420.2	405.1	450.3	374.3	262.9	236.2	63.6	22.2	30.5
85°	85.0	90.3	258.0	269.3	192.6	129.4	116.6	225.3	18.4	14.3	26.0
87.5°	11.3	13.2	90.7	154.2	94.8	58.7	70.0	79.4	6.4	7.9	7.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	765.9	765.9	765.9	765.9	765.9	765.9	765.9	765.9	765.9	765.9	765.9
2.5°	750.8	745.9	730.5	715.1	697.4	681.2	668.4	660.2	663.9	651.5	653.4
5°	729.4	717.0	683.1	646.6	607.1	570.3	540.9	519.1	515.0	496.2	496.9
7.5°	708.7	688.4	633.5	573.3	507.8	454.8	406.6	364.5	349.5	334.0	325.0
10°	697.4	669.6	591.7	504.1	411.9	334.0	266.3	213.3	191.1	174.9	167.0
12.5°	700.8	663.9	560.5	441.2	320.1	221.2	150.5	111.7	98.2	90.7	88.0
15°	712.1	665.1	532.3	379.9	232.8	133.9	88.4	75.6	74.5	74.1	73.7
17.5°	722.6	666.2	502.6	316.0	155.7	85.4	71.1	70.0	70.0	70.0	70.0
20°	733.5	666.6	469.8	249.0	102.3	70.0	67.0	66.2	67.0	67.0	67.0
22.5°	746.3	669.2	438.2	183.9	75.6	65.8	63.9	63.6	63.9	63.9	63.6
25°	762.1	674.8	404.0	131.7	68.5	63.2	61.3	60.9	61.3	60.9	60.9
27.5°	783.2	682.4	364.1	94.4	65.5	60.6	58.7	58.7	58.7	58.3	58.3
30°	810.3	691.4	310.7	74.5	62.4	57.9	56.4	56.4	56.0	55.7	55.7
32.5°	849.0	706.1	252.4	67.3	59.1	54.5	53.0	53.4	53.0	52.7	52.3
35°	903.9	729.0	194.9	63.6	55.7	51.2	49.7	49.7	49.7	48.9	48.9
37.5°	981.8	764.0	146.0	59.8	52.3	47.8	45.9	45.9	45.5	44.8	45.1
40°	1078.1	808.0	105.7	56.4	48.9	44.0	42.5	41.8	41.0	40.2	40.2
42.5°	1193.9	850.9	79.4	53.0	45.5	41.0	39.1	38.4	36.9	36.1	35.7
45°	1323.7	896.4	65.8	48.9	41.8	37.6	36.1	34.6	32.7	31.6	31.2
47.5°	1433.2	924.2	58.7	44.8	38.0	34.2	32.7	30.5	28.2	27.5	27.5
50°	1499.0	912.6	52.7	40.6	34.2	30.8	29.0	26.0	24.5	23.7	23.3
52.5°	1535.9	878.0	47.8	37.2	30.8	27.1	24.5	21.8	21.1	20.3	20.3
55°	1561.1	827.9	42.5	33.9	27.8	23.7	20.7	18.8	18.1	17.7	17.3
57.5°	1585.2	767.0	37.6	30.8	24.8	21.1	17.7	16.9	15.4	15.0	15.0
60°	1592.3	683.1	33.1	27.5	22.2	18.4	15.4	14.3	12.8	12.4	12.4
62.5°	1501.3	543.6	29.3	23.3	19.6	15.8	13.5	12.0	10.5	10.5	10.5
65°	1254.5	369.0	25.2	20.3	17.3	13.5	11.7	9.8	9.0	9.0	9.0
67.5°	873.8	205.8	21.4	17.3	14.7	11.3	9.8	8.3	7.9	8.3	8.3
70°	393.8	81.6	18.1	14.3	12.0	9.4	8.3	7.1	7.9	7.9	7.9
72°	118.1	43.6	15.0	11.7	9.8	8.3	7.1	6.8	7.5	7.9	7.9
72.5°	87.6	39.1	14.3	11.3	9.8	7.9	6.8	6.8	7.5	7.9	7.9
75°	45.1	26.7	10.9	8.3	7.1	6.4	5.6	6.4	7.5	7.5	7.5
77.5°	35.4	21.8	9.0	6.4	6.0	5.6	5.3	6.0	6.8	6.8	6.8
80°	33.1	14.3	7.1	6.0	5.3	4.9	4.9	5.3	6.0	6.4	6.4
82.5°	33.5	11.7	6.4	5.6	4.9	4.5	4.5	4.9	5.6	6.0	6.0
85°	21.4	7.9	5.6	4.9	4.5	4.1	4.1	4.5	5.3	5.6	5.6
87.5°	7.1	6.0	4.9	4.5	3.8	3.8	3.8	3.8	4.5	4.9	5.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)