

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: P199174

Luminaire Tested: **XNV-AF-01-LED-U-SL2-8030-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P199174
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24258)
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-SL2-8030-HSS
Description: XNV ROADWAY AND AREA LUMINAIRE
(1) 80 CRI, 3000K, 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4025 lumens
Efficiency: N/A
Efficacy: 69.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium - Semi-Cutoff
BUG Rating: B1 - U0 - G1

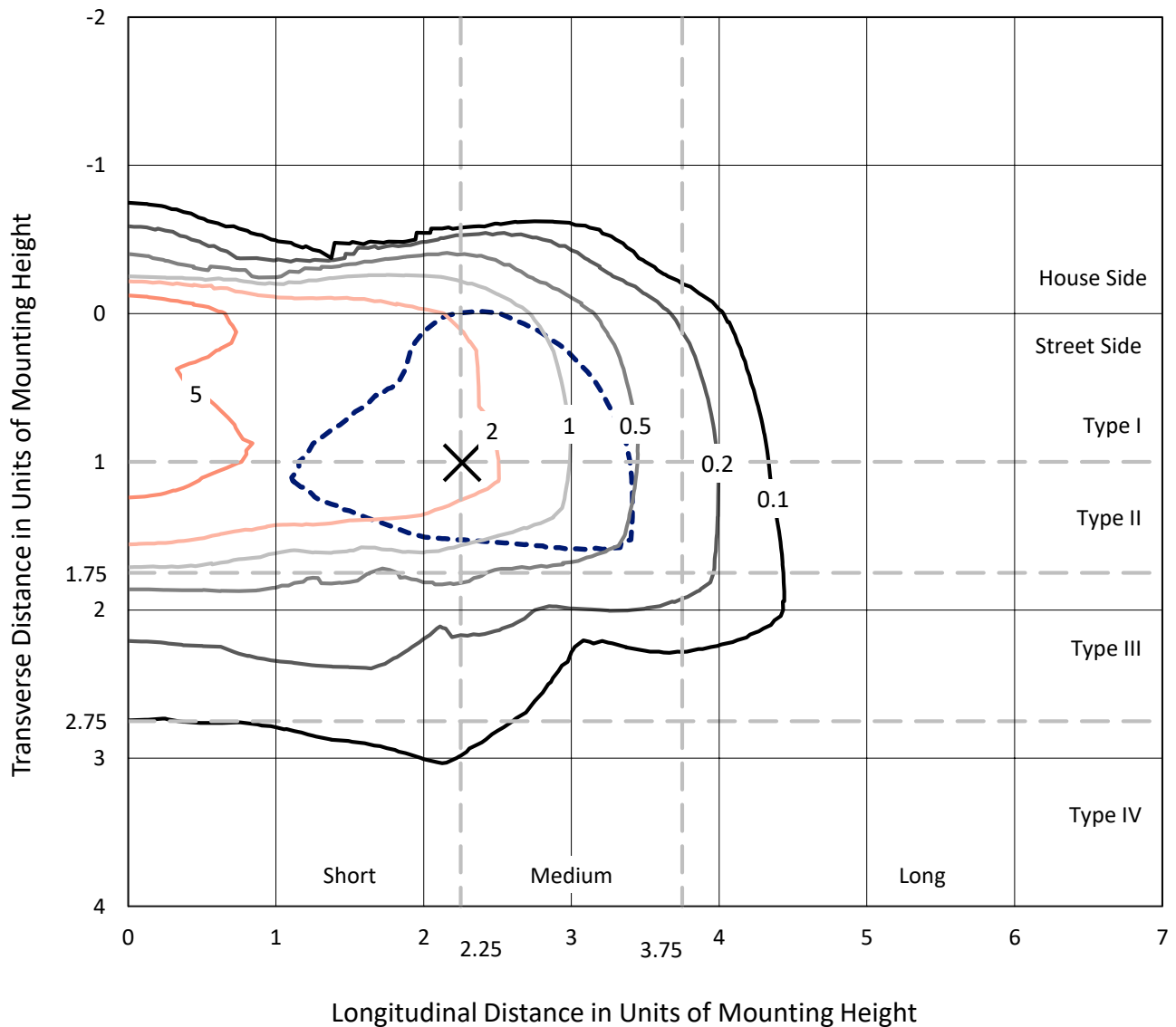
Input Watts (W): 58
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

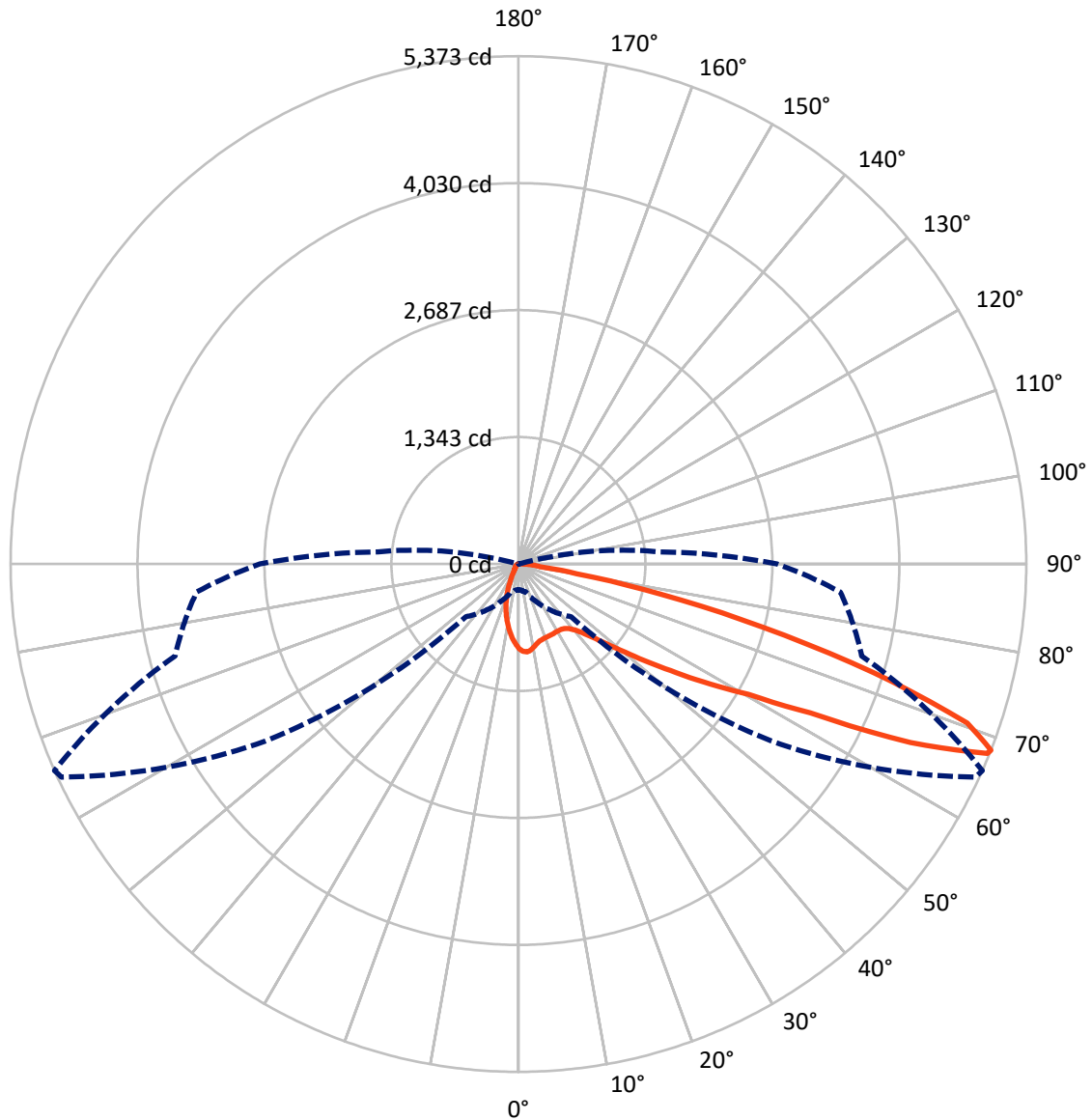
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9 fc
 Type II - Medium - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 68-Deg Vertical



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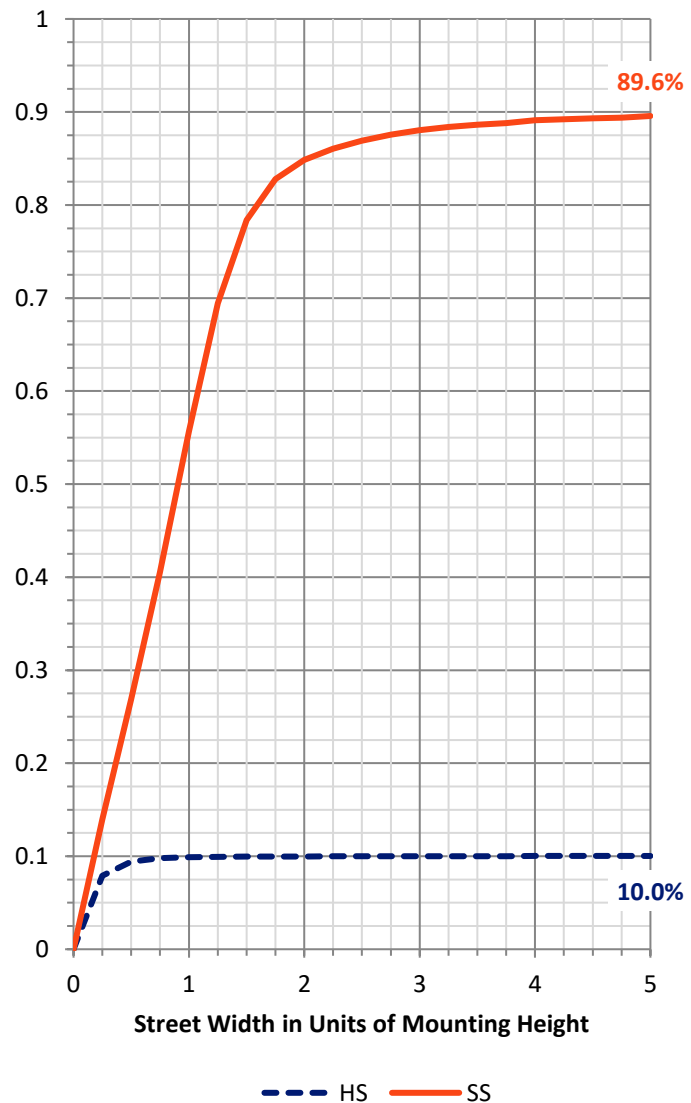
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	407.7	0.0	407.7
	% Fixture	10.1	0.0	10.1
Street Side	Lumens	3617.3	0.0	3617.3
	% Fixture	89.9	0.0	89.9
Total	Lumens	4025.0	0.0	4025.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.5	1.8
10°-20°	158.2	3.9
20°-30°	229.2	5.7
30°-40°	350.9	8.7
40°-50°	600.1	14.9
50°-60°	938.8	23.3
60°-70°	1081.0	26.9
70°-80°	540.9	13.4
80°-90°	52.4	1.3
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°	4025.0	100.0
0°-180°	4025.0	100.0



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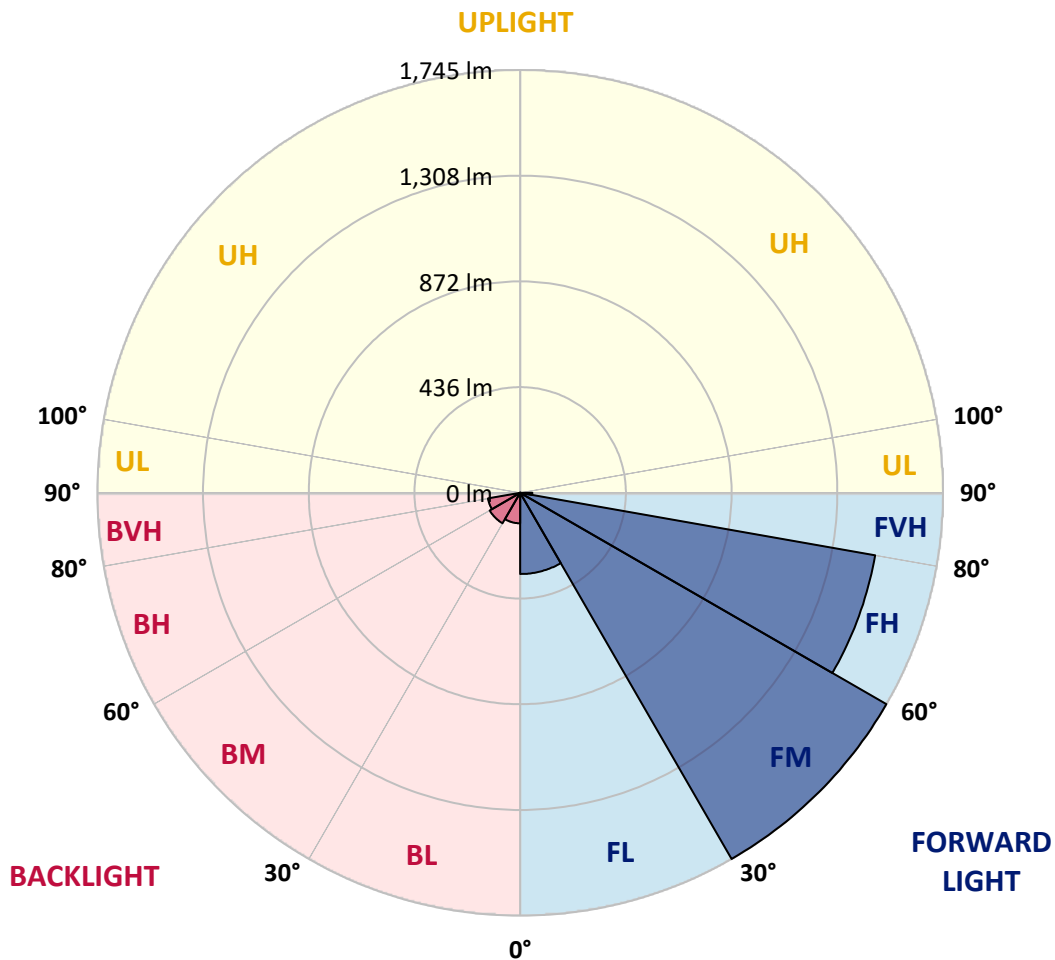
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	335.1	8.3			
FM	(30°-60°)	1744.6	43.3			
FH	(60°-80°)	1487.2	36.9			G1/1800
FVH	(80°-90°)	50.4	1.3			G1/100
BL	(0°-30°)	125.8	3.1	B1/500		
BM	(30°-60°)	145.2	3.6	B0/220		
BH	(60°-80°)	134.7	3.3	B1/500		G1/500
BVH	(80°-90°)	2.0	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	896.7	896.7	896.7	896.7	896.7	896.7	896.7	896.7	896.7	896.7	896.7
2.5°	943.2	943.8	943.5	944.4	943.8	939.1	934.0	923.3	924.2	910.3	894.8
5°	876.8	882.2	887.6	892.9	905.9	917.3	930.9	934.0	934.0	922.0	899.3
7.5°	809.2	809.5	815.5	822.8	840.2	861.0	892.6	921.1	921.7	924.9	899.9
10°	758.3	759.9	764.0	771.9	789.3	809.8	845.2	889.8	893.3	916.6	893.6
12.5°	718.8	720.7	725.2	734.3	750.1	771.3	808.6	859.4	864.2	908.7	891.7
15°	688.5	691.0	694.5	703.7	720.7	743.2	783.9	839.2	844.9	905.6	897.7
17.5°	675.9	675.9	675.6	681.9	698.9	721.7	764.3	828.5	835.7	908.1	907.8
20°	681.2	680.3	673.7	672.1	682.5	705.3	748.9	821.5	829.7	912.8	920.1
22.5°	709.7	707.8	692.9	680.6	677.4	692.6	738.4	816.8	826.6	922.6	936.5
25°	770.0	764.3	743.8	716.0	691.0	689.5	731.2	814.3	824.7	934.0	954.6
27.5°	848.4	846.8	813.9	776.7	728.6	699.9	729.0	812.4	822.8	942.2	969.1
30°	945.7	946.3	908.4	859.8	787.1	729.3	735.9	811.4	822.2	942.9	975.4
32.5°	1046.2	1046.8	1015.2	963.1	867.0	779.8	755.5	815.8	825.6	940.3	975.1
35°	1142.9	1143.8	1124.9	1082.8	973.8	850.0	792.5	831.0	838.0	941.9	974.5
37.5°	1265.2	1268.9	1245.6	1206.4	1107.8	953.0	852.8	861.7	867.3	954.9	979.2
40°	1473.7	1468.6	1401.7	1335.3	1253.1	1078.4	940.0	914.4	916.3	988.4	997.2
42.5°	1716.7	1710.4	1595.7	1481.3	1402.6	1229.8	1051.6	995.3	995.0	1044.6	1036.4
45°	1925.9	1922.1	1801.4	1648.7	1568.2	1396.9	1189.0	1111.9	1108.1	1141.9	1107.8
47.5°	2074.4	2071.2	1979.9	1827.0	1759.7	1580.8	1360.6	1270.8	1262.9	1269.3	1223.8
50°	2088.9	2085.4	2053.5	1955.2	1983.4	1850.7	1572.6	1479.1	1469.0	1459.2	1399.1
52.5°	1953.0	1952.7	1969.5	1963.1	2140.1	2197.9	1832.6	1736.6	1724.6	1699.6	1639.9
55°	1675.3	1673.7	1737.2	1829.5	2136.6	2556.2	2229.2	2043.1	2027.3	1977.4	1899.0
57.5°	1224.1	1215.9	1348.6	1544.2	1986.5	2712.9	2858.9	2423.8	2397.6	2239.3	2118.6
60°	675.9	679.0	849.7	1081.3	1631.1	2682.0	3438.4	2867.8	2798.9	2465.2	2343.6
62.5°	378.9	386.8	513.8	702.7	1039.9	2430.8	3749.3	3631.8	3465.9	2728.7	2627.9
65°	286.6	291.3	355.2	542.2	655.6	1698.7	3798.9	4700.1	4557.0	3128.1	3080.7
67.5°	269.8	273.6	304.9	449.6	597.2	880.9	3425.5	5332.0	5350.1	3672.9	3431.5
68°	271.7	276.5	307.8	432.6	596.2	788.0	3266.2	5335.2	5373.4	3760.7	3419.5
70°	249.6	250.9	325.5	424.4	577.9	620.9	2362.8	4969.6	5038.2	3865.3	3104.1
72.5°	95.4	95.7	146.0	367.5	605.4	624.4	1190.3	3927.9	3931.3	3363.9	2420.0
75°	49.6	41.7	45.8	115.0	578.2	608.6	597.2	2682.0	2665.2	2275.0	1482.9
77.5°	34.1	29.1	30.6	39.8	240.5	608.2	431.3	1542.3	1538.8	967.8	423.1
80°	19.3	16.7	18.3	33.5	84.4	571.0	401.9	662.9	624.7	170.0	68.6
82.5°	9.8	8.2	9.8	28.1	52.5	359.3	390.9	260.0	231.6	40.4	44.6
85°	2.5	2.5	4.7	19.6	32.5	117.9	350.4	187.7	168.7	17.7	31.6
87.5°	0.6	0.3	1.9	7.3	11.7	25.6	194.3	104.6	90.1	9.2	18.3
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°	896.7	896.7	896.7	896.7	896.7	896.7	896.7	896.7	896.7	896.7	896.7
2.5°	888.5	879.7	862.3	842.7	828.8	813.6	804.8	794.0	785.8	778.6	783.9
5°	885.4	868.3	829.7	786.5	750.1	715.4	689.5	664.8	646.2	634.5	639.2
7.5°	877.1	851.9	789.3	721.7	662.3	606.4	560.9	520.1	488.5	471.4	476.8
10°	863.2	827.5	743.5	649.6	566.5	487.5	419.9	359.3	313.4	292.0	297.0
12.5°	853.1	806.0	696.1	580.1	470.8	358.6	268.9	199.4	163.7	142.2	144.1
15°	848.7	789.3	651.9	506.8	366.2	230.3	145.3	105.2	92.9	88.5	88.8
17.5°	849.3	776.0	609.8	430.7	260.7	132.4	89.1	80.3	78.4	77.4	77.4
20°	850.9	762.8	566.2	351.4	166.8	85.3	74.3	71.4	70.5	69.2	69.5
22.5°	855.7	752.6	522.3	271.7	102.7	69.5	65.7	63.2	61.6	59.7	60.0
25°	862.9	745.1	479.0	195.6	72.4	60.7	57.2	53.7	50.9	48.7	49.0
27.5°	867.3	734.3	432.9	133.3	60.0	53.1	48.3	43.6	40.4	38.5	38.2
30°	864.2	716.9	380.4	87.5	53.1	45.8	40.1	34.8	31.6	30.0	30.0
32.5°	855.7	694.5	322.6	63.8	47.1	39.5	32.5	27.8	25.6	24.6	25.0
35°	845.9	671.1	261.0	54.0	42.3	33.5	26.5	22.8	21.8	21.5	21.5
37.5°	840.5	650.9	201.9	49.0	37.9	27.8	21.8	19.6	18.6	18.6	18.6
40°	846.5	635.4	149.5	45.2	33.5	23.1	18.3	16.7	16.4	16.4	16.4
42.5°	872.1	630.1	109.3	42.0	29.1	19.3	15.8	14.5	14.2	14.5	14.5
45°	922.0	641.7	82.8	38.9	25.0	15.8	13.6	12.6	12.6	13.0	13.0
47.5°	1006.7	671.8	67.9	35.7	20.9	13.3	11.7	11.1	11.1	11.4	11.4
50°	1138.1	727.4	61.0	32.2	17.4	11.4	9.8	9.5	9.5	9.8	10.1
52.5°	1337.8	833.2	57.5	28.8	14.2	9.5	8.2	7.9	8.2	8.5	8.5
55°	1560.0	968.8	53.4	25.3	12.0	7.9	6.6	6.6	7.0	7.6	7.6
57.5°	1766.9	1099.6	49.6	20.9	10.4	6.3	5.4	5.4	6.0	6.6	6.6
60°	1985.6	1227.9	44.6	16.7	8.8	5.1	4.4	4.4	5.4	6.0	6.3
62.5°	2255.7	1377.0	37.9	13.3	7.0	3.8	3.2	4.1	5.1	6.0	6.0
65°	2646.3	1562.5	29.7	10.4	5.4	2.8	2.5	3.8	4.7	5.7	6.0
67.5°	2788.1	1538.8	22.4	8.5	4.1	2.2	2.2	3.5	4.7	5.7	5.7
68°	2736.3	1487.0	21.5	8.2	3.8	2.2	2.2	3.5	4.7	5.7	5.7
70°	2384.3	1215.5	17.7	6.3	3.2	1.9	1.9	3.2	4.7	5.4	5.7
72.5°	1785.2	807.6	15.2	4.1	2.8	1.9	1.6	3.2	4.4	5.4	5.4
75°	1024.1	335.2	13.0	3.2	2.5	1.6	1.6	2.8	4.4	5.4	5.4
77.5°	289.4	78.4	10.4	2.5	2.2	1.6	1.3	2.8	4.1	5.1	5.1
80°	53.1	23.4	8.2	2.2	1.9	1.6	1.3	2.8	4.1	5.1	5.1
82.5°	35.1	11.1	6.0	2.2	1.9	1.6	1.3	2.5	3.8	4.7	4.7
85°	26.2	7.9	3.8	2.2	1.9	1.6	1.3	2.5	3.8	4.7	4.7
87.5°	14.5	3.5	2.8	2.5	2.2	1.6	1.3	2.2	3.5	4.4	4.4
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)