

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: P271248

Luminaire Tested: **XNV-AF-01-LED-U-SL4-7027-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P271248
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-SL4-7027-HSS
Description: XNV ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 1050mA 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: 4281.2 lumens
Efficiency: N/A
Efficacy: 73.8 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

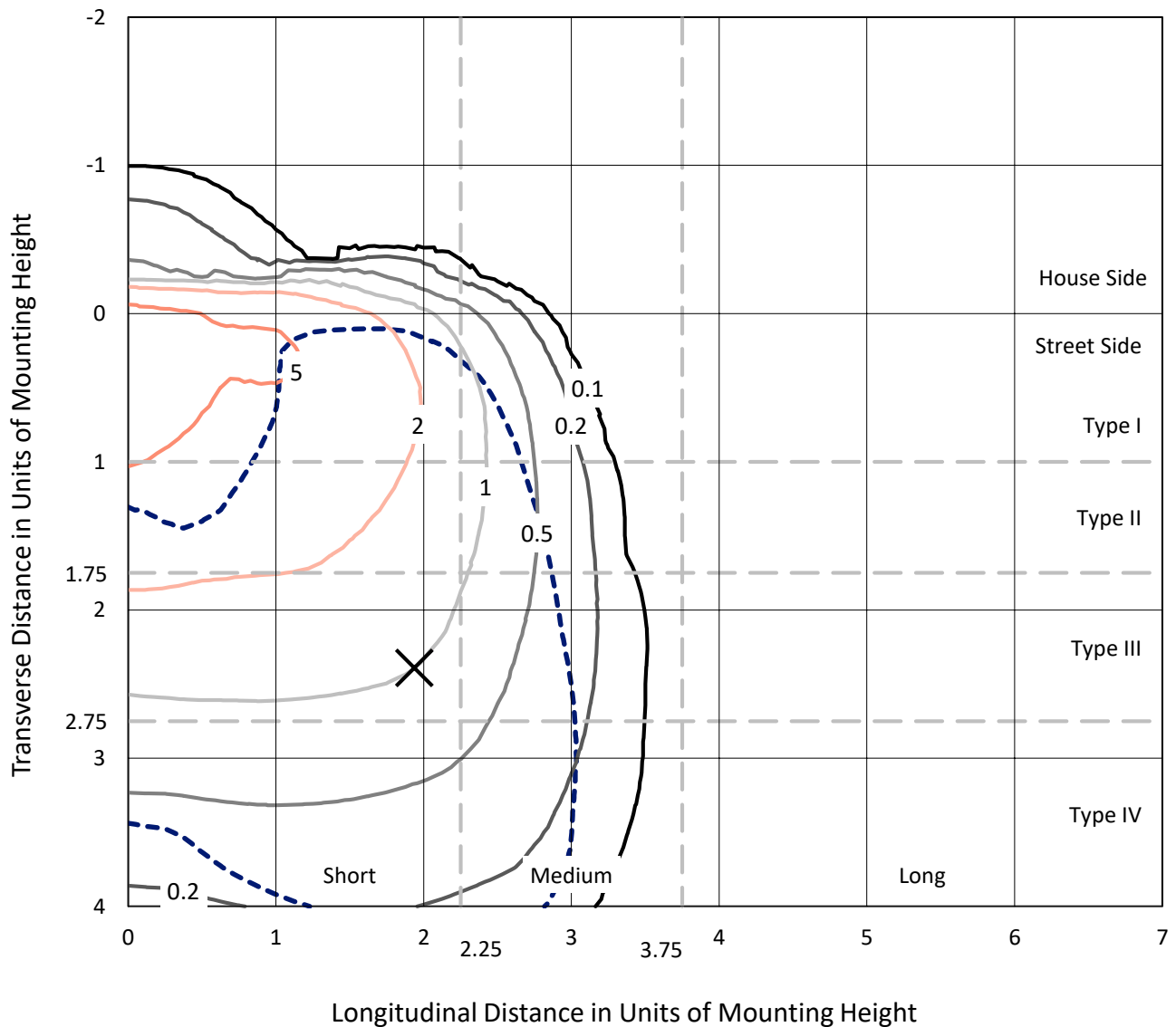
Input Watts (W): 58
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

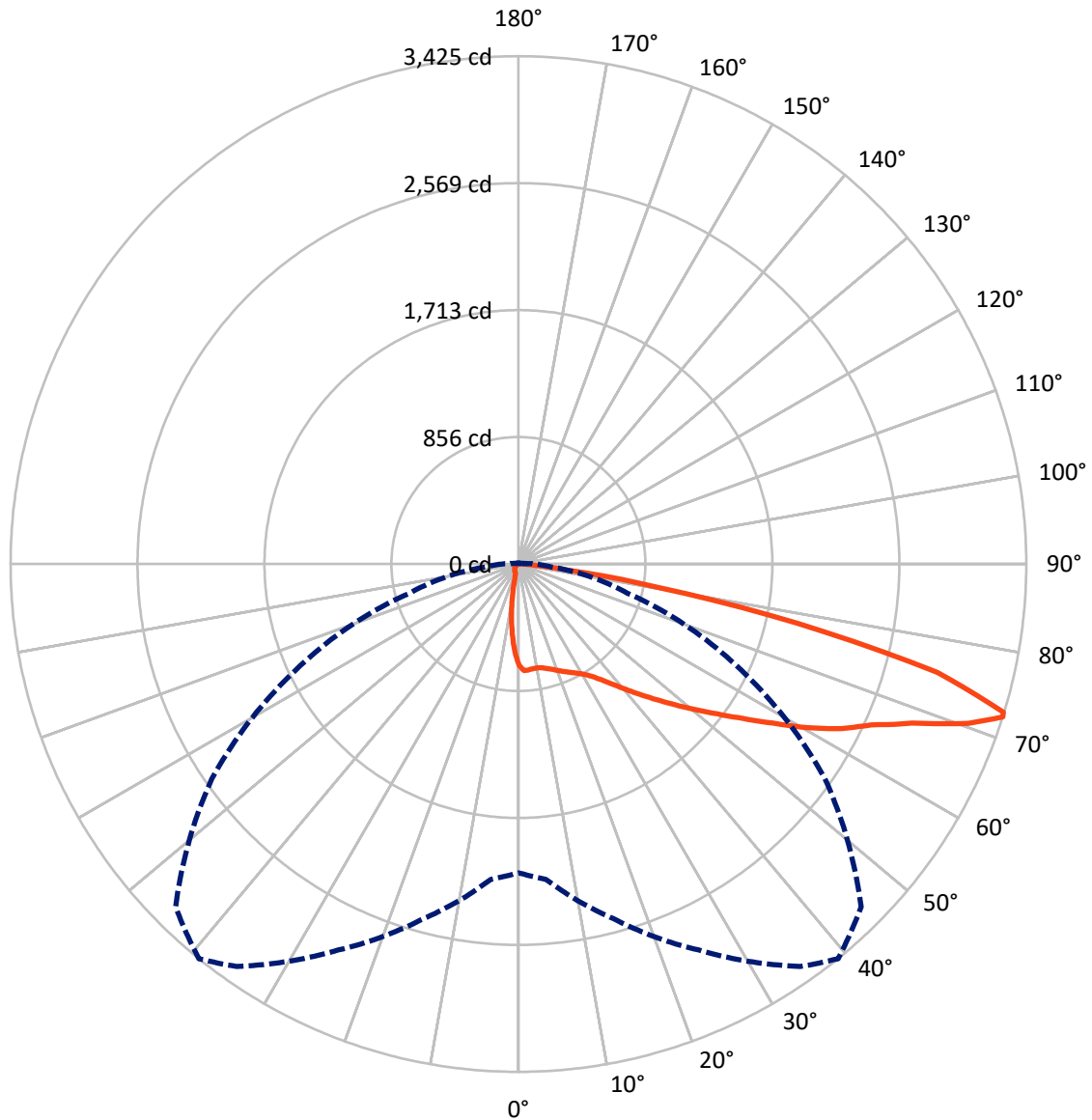
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.2 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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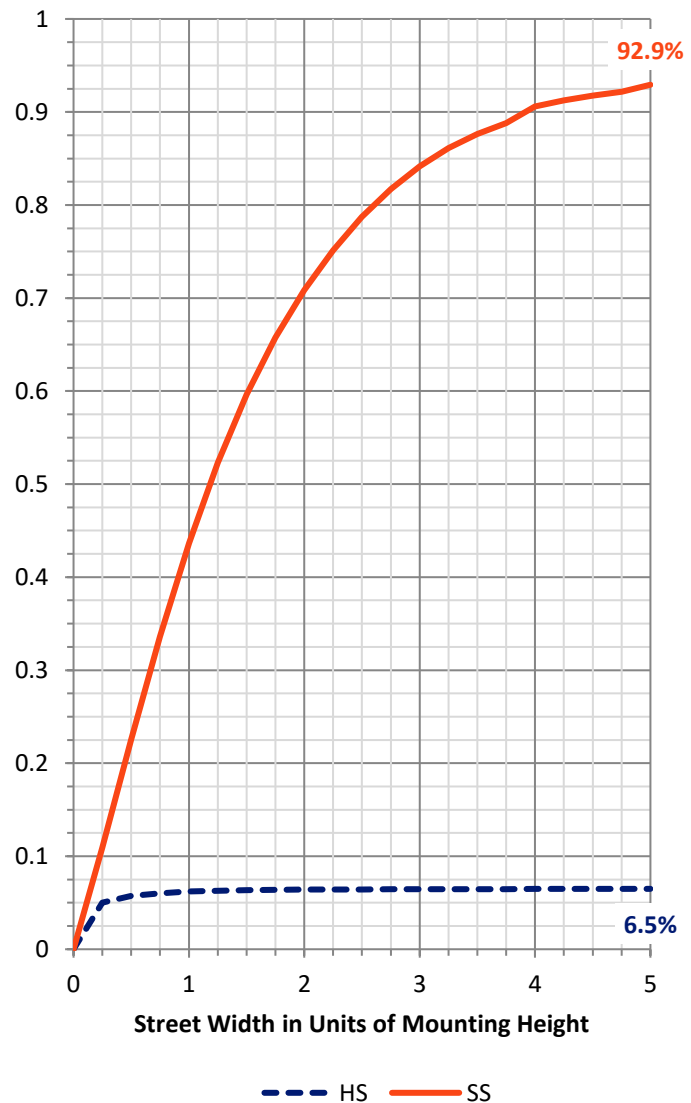
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	280.6	0.0	280.6
	% Fixture	6.6	0.0	6.6
Street Side	Lumens	4000.6	0.0	4000.6
	% Fixture	93.4	0.0	93.4
Total	Lumens	4281.2	0.0	4281.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.7	1.3
10°-20°	134.9	3.2
20°-30°	224.1	5.2
30°-40°	357.2	8.3
40°-50°	589.6	13.8
50°-60°	890.4	20.8
60°-70°	1159.8	27.1
70°-80°	783.7	18.3
80°-90°	85.8	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°	4281.2	100.0
0°-180°	4281.2	100.0

Coefficient of Utilization



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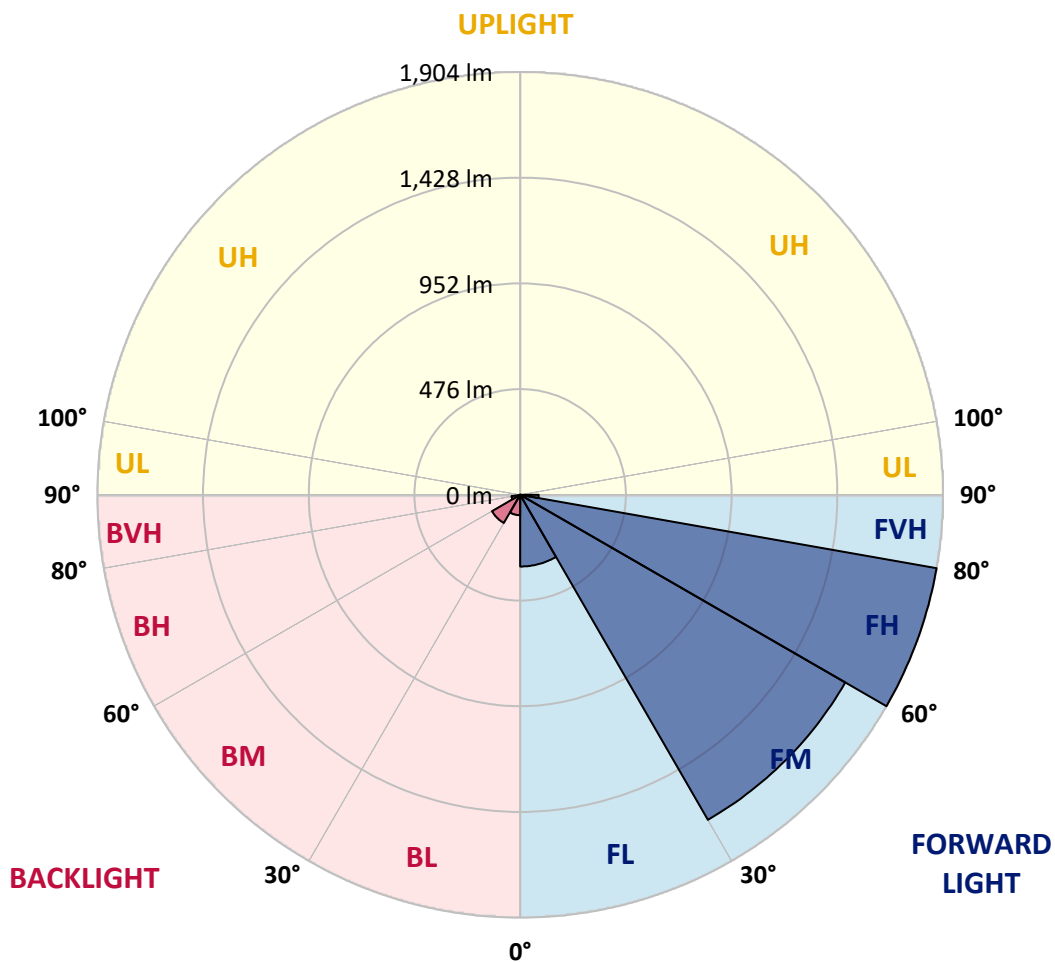
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	322.9	7.5			
FM	(30°-60°)	1690.3	39.5			
FH	(60°-80°)	1904.1	44.5			G2/5000
FVH	(80°-90°)	83.4	1.9			G1/100
BL	(0°-30°)	91.9	2.1	B0/110		
BM	(30°-60°)	146.8	3.4	B0/220		
BH	(60°-80°)	39.4	0.9	B0/110		G0/110
BVH	(80°-90°)	2.5	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°	685.2	685.2	685.2	685.2	685.2	685.2	685.2	685.2	685.2	685.2	685.2
2.5°	729.7	731.0	729.3	726.3	721.9	719.3	715.5	707.4	697.4	688.6	678.5
5°	735.4	736.0	734.0	728.3	721.6	717.8	713.2	704.5	694.0	681.9	663.7
7.5°	737.1	736.7	734.4	727.3	716.8	712.1	704.1	693.3	682.5	671.5	650.9
10°	736.4	736.4	734.8	727.9	716.2	711.8	702.7	691.2	677.9	666.7	644.9
12.5°	734.0	735.4	734.4	730.7	721.9	718.6	710.5	699.1	686.2	674.7	651.6
15°	737.1	739.0	741.1	739.8	734.8	731.7	724.3	712.4	702.0	690.0	665.0
17.5°	749.1	753.6	758.3	758.6	753.1	747.7	739.5	727.3	717.1	706.1	679.2
20°	772.1	775.4	784.2	785.8	775.1	767.3	755.6	741.5	731.3	721.9	692.4
22.5°	806.0	809.7	816.7	814.5	796.3	787.3	772.5	756.3	745.9	740.5	707.4
25°	857.5	858.6	860.2	849.7	819.9	809.7	791.5	773.4	764.9	764.4	729.0
27.5°	918.2	919.4	912.0	888.9	846.2	833.0	812.4	796.0	791.9	796.9	756.3
30°	987.4	987.7	967.3	929.6	876.3	862.0	840.8	822.6	826.3	838.7	791.2
32.5°	1058.6	1055.1	1026.9	977.7	917.8	900.3	882.1	864.0	874.7	899.9	842.4
35°	1123.4	1122.2	1088.7	1031.6	971.6	956.2	943.0	923.8	941.3	982.4	912.0
37.5°	1188.4	1187.4	1149.3	1089.7	1037.9	1026.9	1017.2	1002.2	1030.8	1091.1	1005.4
40°	1260.1	1258.3	1211.6	1154.4	1115.1	1109.0	1103.3	1096.8	1145.7	1229.5	1121.4
42.5°	1348.5	1341.2	1277.6	1224.7	1199.9	1201.6	1201.8	1208.2	1284.7	1394.0	1258.3
45°	1450.3	1433.8	1343.9	1300.1	1293.1	1303.3	1313.2	1339.8	1446.5	1583.5	1409.9
47.5°	1548.9	1522.3	1420.3	1381.2	1395.7	1416.5	1440.8	1492.7	1628.3	1781.8	1547.2
50°	1633.7	1606.3	1495.9	1463.7	1509.8	1540.8	1583.8	1662.3	1820.1	1949.3	1633.7
52.5°	1700.3	1678.8	1576.2	1554.5	1636.4	1678.8	1746.5	1849.4	2001.2	2059.8	1694.3
55°	1749.4	1738.7	1652.8	1655.8	1777.0	1838.3	1922.5	2039.0	2154.0	2145.6	1739.7
57.5°	1805.0	1796.6	1733.3	1775.4	1946.4	2025.4	2122.7	2216.3	2265.0	2214.6	1784.2
60°	1861.8	1864.5	1830.8	1920.0	2155.7	2243.2	2328.0	2351.3	2360.2	2284.6	1830.8
62.5°	1904.9	1916.4	1919.4	2076.3	2370.4	2445.0	2481.7	2465.3	2463.3	2378.5	1827.2
65°	1954.4	1984.4	2034.2	2247.6	2565.6	2614.7	2640.9	2664.9	2614.3	2406.4	1647.4
67.5°	2040.0	2087.0	2199.1	2457.6	2791.2	2863.7	2938.1	2912.9	2637.0	2122.7	1255.0
70°	2155.0	2212.5	2410.4	2731.8	3097.0	3218.8	3281.1	2893.1	2238.8	1466.8	662.1
72°	2082.4	2134.5	2475.8	2871.9	3313.8	3425.4	3269.7	2523.5	1622.9	760.2	221.8
72.5°	2011.7	2065.5	2454.9	2870.2	3335.2	3420.7	3195.4	2377.9	1436.1	591.7	152.8
75°	1395.7	1463.7	2104.5	2580.1	3011.8	2918.0	2444.7	1439.9	520.3	101.7	50.5
77.5°	721.6	774.1	1276.6	1823.1	2099.1	1922.5	1444.8	624.6	144.1	53.9	33.2
80°	447.3	473.1	597.1	898.2	1090.5	953.8	637.4	252.5	92.3	32.0	26.6
82.5°	231.6	251.4	375.9	362.5	402.9	334.9	235.3	211.3	57.0	19.9	27.3
85°	76.0	80.8	230.9	240.9	172.4	115.8	104.4	201.6	16.4	12.8	23.3
87.5°	10.2	11.8	81.0	138.0	84.8	52.6	62.6	71.1	5.7	7.0	6.4
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°	685.2	685.2	685.2	685.2	685.2	685.2	685.2	685.2	685.2	685.2	685.2
2.5°	671.8	667.4	653.5	639.9	624.1	609.5	598.1	590.6	594.0	582.9	584.5
5°	652.6	641.5	611.1	578.6	543.3	510.2	483.9	464.5	460.7	443.9	444.7
7.5°	634.1	615.9	566.8	512.9	454.4	406.9	363.9	326.2	312.7	298.9	290.8
10°	624.1	599.1	529.5	450.9	368.6	298.9	238.3	190.8	170.9	156.6	149.5
12.5°	626.9	594.0	501.4	394.7	286.4	197.8	134.7	99.9	87.9	81.0	78.7
15°	637.1	595.0	476.2	339.9	208.3	119.8	79.1	67.6	66.7	66.4	65.9
17.5°	646.5	596.0	449.6	282.6	139.3	76.4	63.6	62.6	62.6	62.6	62.6
20°	656.3	596.4	420.3	222.8	91.5	62.6	59.8	59.3	59.8	59.8	59.8
22.5°	667.7	598.7	392.1	164.6	67.6	58.8	57.2	57.0	57.2	57.2	57.0
25°	681.9	603.8	361.5	117.8	61.3	56.6	54.8	54.5	54.8	54.5	54.5
27.5°	700.7	610.5	325.7	84.5	58.6	54.2	52.6	52.6	52.6	52.2	52.2
30°	724.9	618.7	277.9	66.7	55.9	51.8	50.5	50.5	50.1	49.9	49.9
32.5°	759.5	631.7	225.8	60.2	52.8	48.8	47.5	47.8	47.5	47.2	46.8
35°	808.7	652.3	174.4	57.0	49.9	45.8	44.5	44.5	44.5	43.7	43.7
37.5°	878.5	683.6	130.6	53.4	46.8	42.7	41.1	41.1	40.8	40.1	40.3
40°	964.6	723.0	94.6	50.5	43.7	39.3	38.0	37.4	36.7	36.0	36.0
42.5°	1068.3	761.4	71.1	47.5	40.8	36.7	35.0	34.3	33.0	32.2	32.0
45°	1184.3	802.0	58.8	43.7	37.4	33.6	32.2	30.9	29.3	28.2	27.9
47.5°	1282.3	826.9	52.6	40.1	34.0	30.6	29.3	27.3	25.2	24.6	24.6
50°	1341.2	816.5	47.2	36.3	30.6	27.6	26.0	23.3	21.9	21.2	20.9
52.5°	1374.1	785.6	42.7	33.2	27.6	24.3	21.9	19.6	18.9	18.1	18.1
55°	1396.8	740.7	38.0	30.4	25.0	21.2	18.5	16.8	16.2	15.8	15.5
57.5°	1418.2	686.2	33.6	27.6	22.2	18.9	15.8	15.1	13.8	13.5	13.5
60°	1424.6	611.1	29.6	24.6	19.9	16.4	13.8	12.8	11.5	11.0	11.0
62.5°	1343.2	486.3	26.2	20.9	17.4	14.2	12.0	10.8	9.4	9.4	9.4
65°	1122.4	330.1	22.5	18.1	15.5	12.0	10.4	8.8	8.1	8.1	8.1
67.5°	781.9	184.2	19.1	15.5	13.1	10.2	8.8	7.4	7.0	7.4	7.4
70°	352.3	73.0	16.2	12.8	10.8	8.4	7.4	6.4	7.0	7.0	7.0
72°	105.7	39.0	13.5	10.4	8.8	7.4	6.4	6.1	6.7	7.0	7.0
72.5°	78.4	35.0	12.8	10.2	8.8	7.0	6.1	6.1	6.7	7.0	7.0
75°	40.3	23.9	9.7	7.4	6.4	5.7	5.0	5.7	6.7	6.7	6.7
77.5°	31.6	19.6	8.1	5.7	5.4	5.0	4.8	5.4	6.1	6.1	6.1
80°	29.6	12.8	6.4	5.4	4.8	4.4	4.4	4.8	5.4	5.7	5.7
82.5°	30.0	10.4	5.7	5.0	4.4	4.0	4.0	4.4	5.0	5.4	5.4
85°	19.1	7.0	5.0	4.4	4.0	3.8	3.8	4.0	4.8	5.0	5.0
87.5°	6.4	5.4	4.4	4.0	3.4	3.4	3.4	3.4	4.0	4.4	4.8
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)