

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: P572788

Luminaire Tested: **ARCH-S-PA2-110-830-U-T2R-HSS**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P572788
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2108-332-14)
Test Lab: INNOVATION CENTER
Issue Date: 10/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-S-PA2-110-830-U-T2R-HSS
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 80 CRI, 3000K, 1105mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9193 lumens
Efficiency: N/A
Efficacy: 80.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

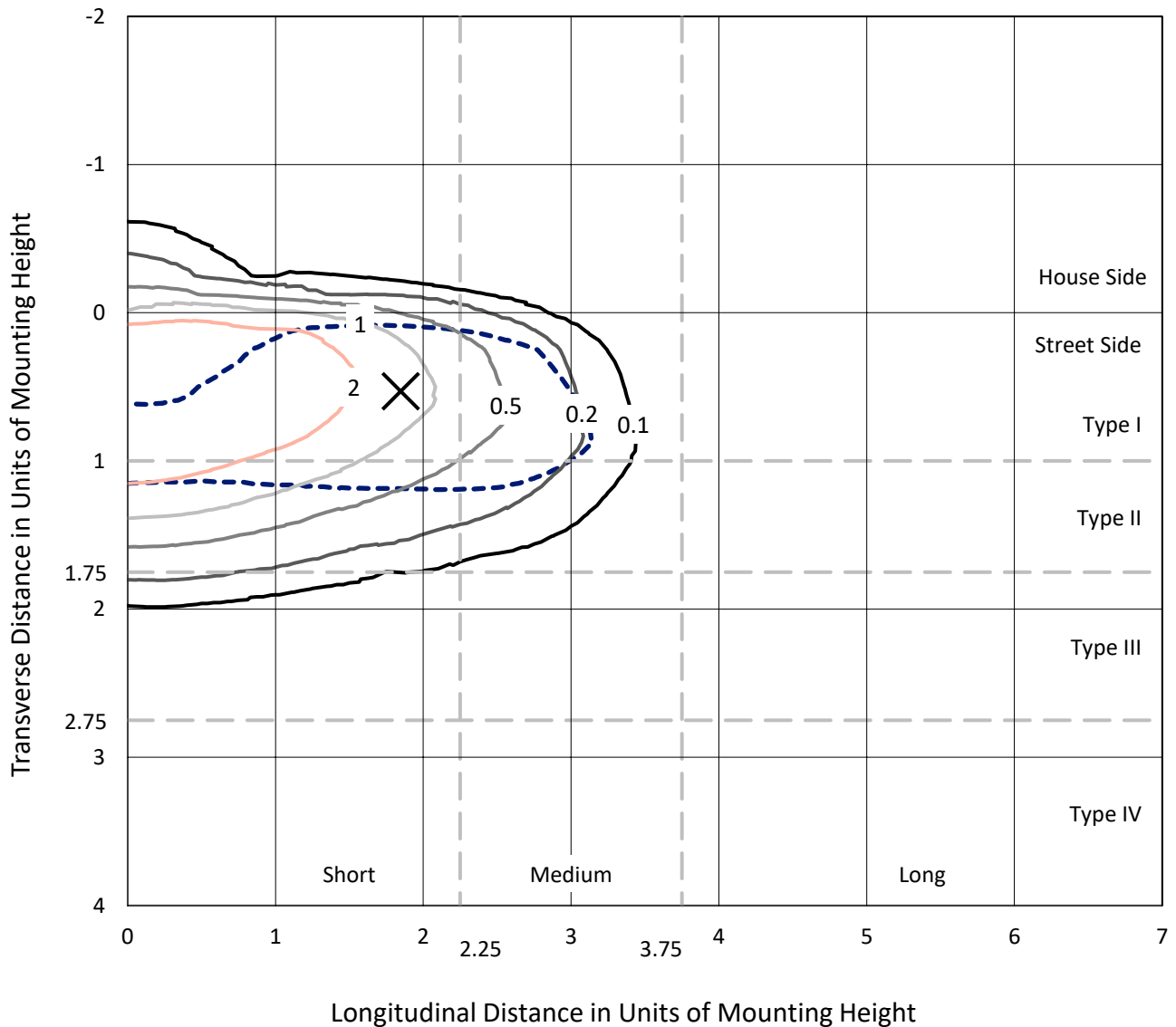
Input Watts (W): 114.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

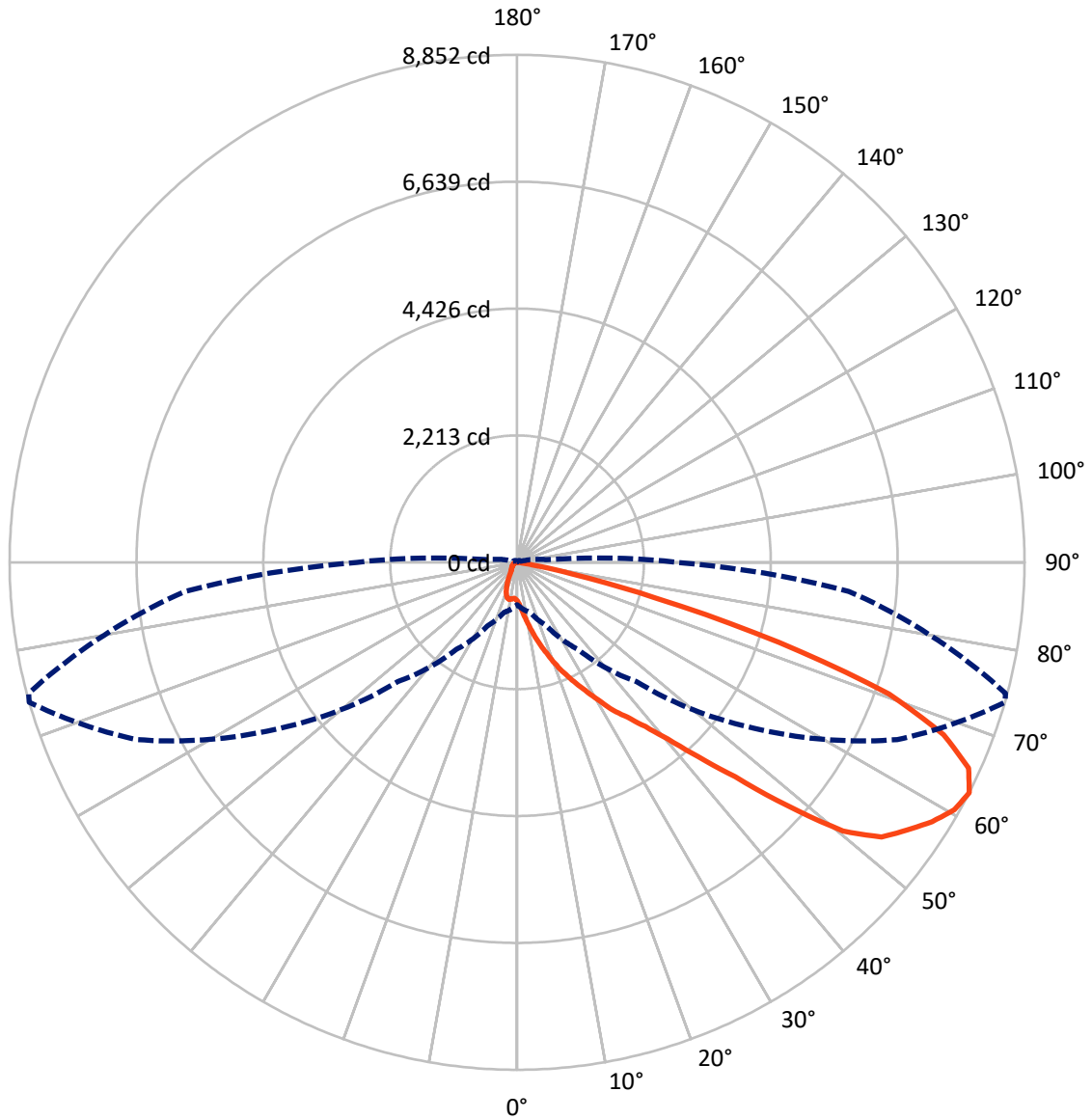
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 74-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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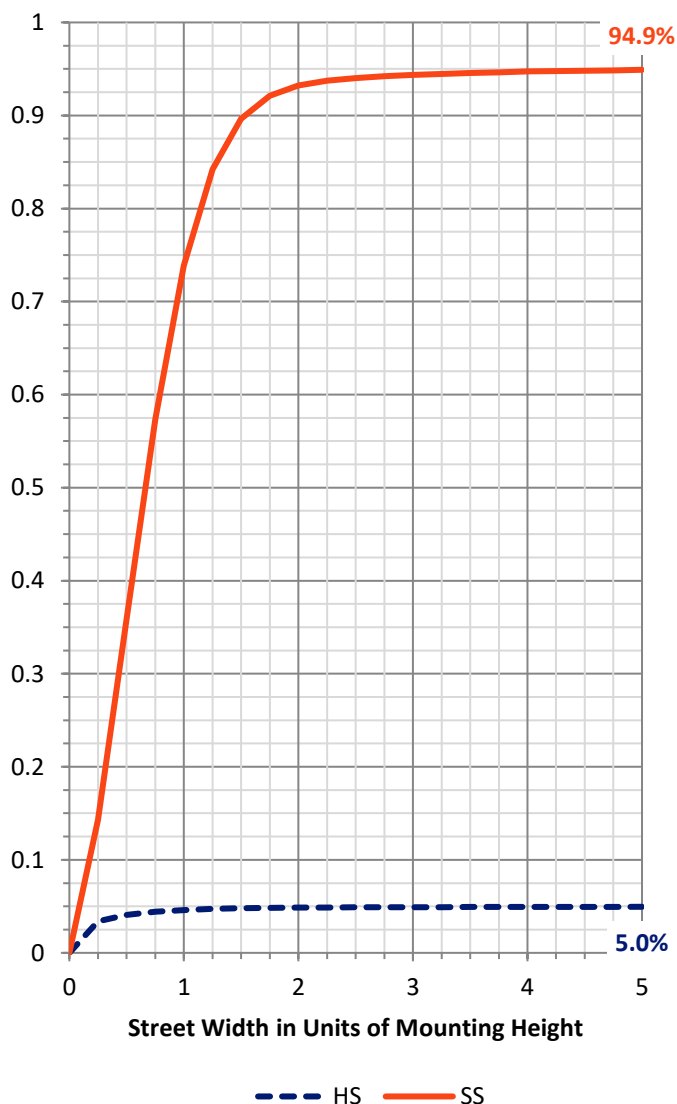
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	458.5	0.0	458.5
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	8734.5	0.0	8734.5
	% Fixture	95.0	0.0	95.0
Total	Lumens	9193.0	0.0	9193.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.2	0.9
10°-20°	353.5	3.8
20°-30°	758.6	8.3
30°-40°	1330.6	14.5
40°-50°	2062.7	22.4
50°-60°	2378.0	25.9
60°-70°	1670.6	18.2
70°-80°	520.5	5.7
80°-90°	34.4	0.4
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°	9193.0	100.0
0°-180°	9193.0	100.0

Coefficient of Utilization



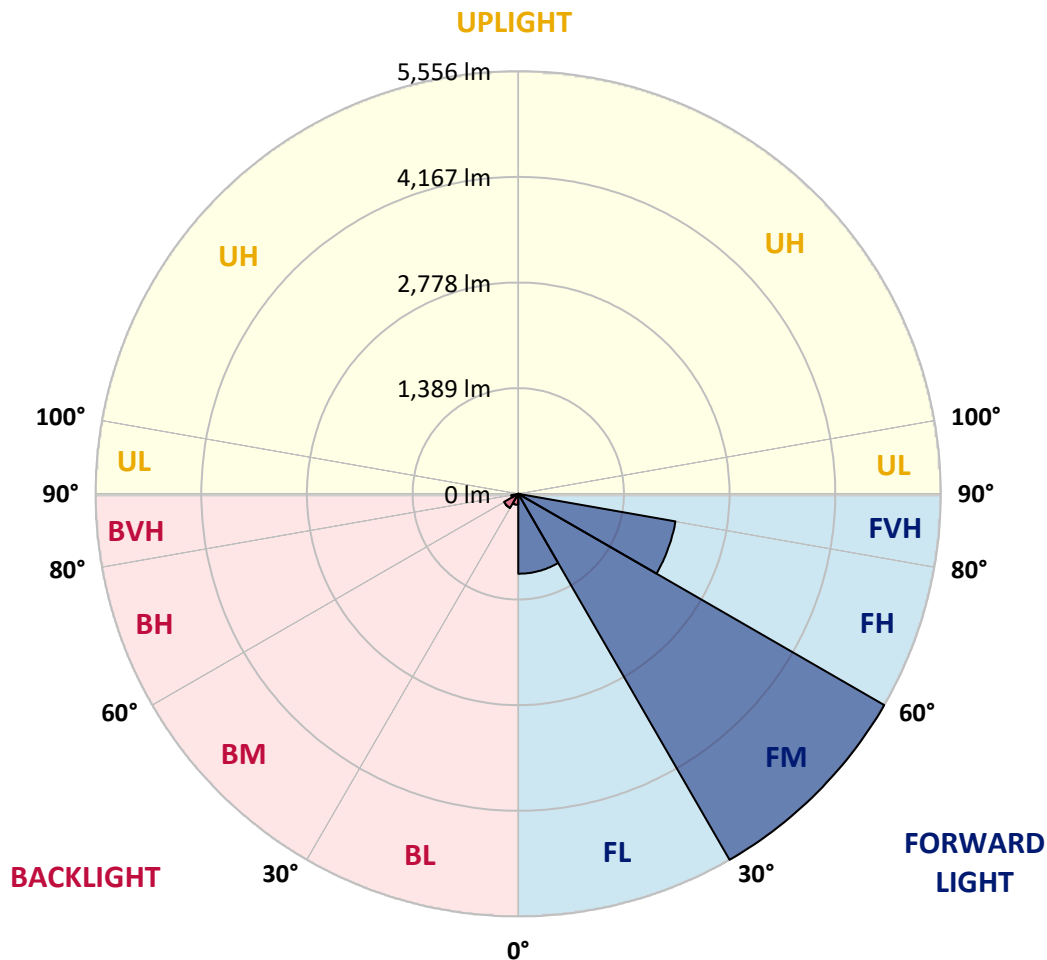
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1050.8	11.4			
FM (30°-60°)	5555.8	60.4			
FH (60°-80°)	2098.3	22.8			G2/5000
FVH (80°-90°)	29.7	0.3			G1/100
BL (0°-30°)	145.5	1.6	B1/500		
BM (30°-60°)	215.5	2.3	B0/220		
BH (60°-80°)	92.8	1.0	B0/110		G0/110
BVH (80°-90°)	4.7	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	673.0	673.0	673.0	673.0	673.0	673.0	673.0	673.0	673.0	673.0	673.0
2.5°	935.0	918.8	899.4	883.3	850.9	828.3	799.1	766.8	731.2	728.0	698.8
5°	1310.3	1261.8	1261.8	1219.7	1171.2	1083.8	1003.0	902.7	828.3	821.8	744.1
7.5°	1695.3	1656.5	1633.9	1569.2	1491.5	1394.4	1265.0	1096.8	960.9	938.3	812.1
10°	2054.5	2025.3	1983.3	1931.5	1863.6	1705.0	1543.3	1323.3	1106.5	1090.3	893.0
12.5°	2332.7	2297.1	2277.7	2255.0	2167.7	2041.5	1831.2	1553.0	1294.1	1258.6	973.8
15°	2543.0	2526.8	2507.4	2507.4	2462.1	2339.2	2122.4	1798.9	1475.3	1433.3	1077.4
17.5°	2711.2	2691.8	2688.6	2708.0	2695.1	2607.7	2403.9	2035.0	1663.0	1630.6	1184.1
20°	2898.9	2873.0	2873.0	2889.2	2885.9	2837.4	2659.5	2306.8	1883.0	1824.7	1307.1
22.5°	3164.2	3148.0	3135.1	3109.2	3089.8	3044.5	2889.2	2572.1	2093.3	2038.3	1433.3
25°	3520.1	3500.7	3442.4	3397.1	3313.0	3245.1	3112.4	2808.3	2306.8	2245.3	1556.2
27.5°	3866.3	3827.4	3772.4	3714.2	3620.4	3503.9	3338.9	3031.5	2530.1	2465.3	1682.4
30°	4231.9	4202.7	4134.8	4041.0	3924.5	3795.1	3597.7	3300.1	2785.6	2714.5	1818.3
32.5°	4523.0	4477.7	4416.3	4325.7	4206.0	4115.4	3901.8	3594.5	3080.1	2986.2	1960.6
35°	4756.0	4720.4	4639.5	4552.2	4461.6	4435.7	4202.7	3833.9	3316.2	3228.9	2112.7
37.5°	4904.8	4869.2	4801.3	4713.9	4678.3	4723.6	4571.6	4160.7	3633.3	3523.3	2287.4
40°	5021.3	4979.2	4924.2	4885.4	4872.5	4998.6	4982.5	4584.5	4050.7	3986.0	2526.8
42.5°	5105.4	5063.3	5027.8	5024.5	5108.6	5354.5	5535.7	5176.6	4633.0	4500.4	2834.2
45°	4998.6	4963.0	4982.5	5095.7	5299.5	5687.8	6205.4	6014.5	5335.1	5241.3	3326.0
47.5°	4701.0	4678.3	4765.7	4972.8	5351.3	5891.6	6852.5	6933.4	6338.1	6195.7	3963.3
50°	4235.1	4231.9	4371.0	4652.5	5189.5	5969.2	7179.3	7816.6	7366.9	7221.3	4481.0
52.5°	3604.2	3591.3	3795.1	4186.6	4807.8	5823.7	7240.7	8169.3	7962.2	7790.8	4807.8
55°	2889.2	2860.1	3102.7	3533.0	4244.8	5399.8	7075.7	8246.9	8246.9	8091.6	5050.4
57.5°	2031.8	2077.1	2277.7	2795.4	3549.2	4765.7	6668.1	8175.8	8534.9	8402.2	5377.2
60°	1281.2	1300.6	1520.6	1938.0	2691.8	3918.0	5940.1	7868.4	8764.6	8687.0	5639.2
62.5°	737.7	799.1	909.1	1226.2	1857.1	2944.2	5040.7	7315.2	8852.0	8819.6	5810.7
65°	449.7	456.2	508.0	692.4	1142.1	2009.2	4034.5	6545.1	8654.6	8683.7	5778.4
67.5°	336.5	336.5	352.7	436.8	650.3	1278.0	2976.5	5610.1	8023.7	8117.5	5474.2
70°	291.2	291.2	294.4	320.3	401.2	757.1	1967.1	4523.0	6878.4	6868.7	4523.0
72.5°	229.7	239.4	258.8	271.8	304.1	443.2	1151.8	3161.0	4778.6	4891.9	2911.8
75°	184.4	187.7	213.5	236.2	255.6	300.9	543.5	1756.8	2507.4	2507.4	1281.2
77.5°	142.4	148.8	165.0	187.7	213.5	213.5	226.5	679.4	970.6	938.3	378.5
80°	90.6	93.8	119.7	148.8	177.9	152.1	122.9	226.5	265.3	255.6	103.5
82.5°	55.0	58.2	77.6	119.7	119.7	84.1	77.6	93.8	84.1	77.6	42.1
85°	16.2	19.4	55.0	77.6	67.9	32.4	38.8	42.1	38.8	35.6	22.6
87.5°	3.2	3.2	16.2	19.4	16.2	16.2	12.9	16.2	16.2	16.2	9.7
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°	673.0	673.0	673.0	673.0	673.0	673.0	673.0	673.0	673.0	673.0	673.0
2.5°	682.7	669.7	643.8	624.4	608.2	592.1	579.1	575.9	569.4	569.4	566.2
5°	711.8	682.7	634.1	601.8	575.9	553.2	533.8	514.4	508.0	501.5	504.7
7.5°	757.1	711.8	643.8	595.3	550.0	498.2	456.2	420.6	394.7	388.2	378.5
10°	815.3	747.4	660.0	582.4	498.2	407.7	349.4	313.8	300.9	284.7	287.9
12.5°	873.5	789.4	673.0	546.8	410.9	320.3	271.8	249.1	239.4	236.2	239.4
15°	941.5	834.7	666.5	482.1	330.0	258.8	229.7	220.0	213.5	213.5	210.3
17.5°	1009.4	873.5	643.8	397.9	265.3	220.0	207.1	197.4	190.9	187.7	187.7
20°	1083.8	909.1	592.1	317.1	220.0	200.6	187.7	174.7	168.2	168.2	168.2
22.5°	1161.5	935.0	524.1	252.4	197.4	177.9	165.0	155.3	148.8	148.8	148.8
25°	1229.4	948.0	443.2	210.3	181.2	161.8	148.8	139.1	135.9	132.6	132.6
27.5°	1294.1	944.7	359.1	184.4	161.8	145.6	132.6	126.2	119.7	119.7	119.7
30°	1358.9	925.3	284.7	168.2	148.8	129.4	119.7	113.2	110.0	106.8	106.8
32.5°	1413.9	893.0	223.2	155.3	135.9	116.5	106.8	100.3	100.3	97.1	97.1
35°	1468.9	844.4	187.7	145.6	122.9	106.8	97.1	93.8	90.6	90.6	90.6
37.5°	1527.1	783.0	165.0	132.6	110.0	97.1	90.6	87.4	84.1	80.9	80.9
40°	1598.3	721.5	155.3	122.9	100.3	87.4	80.9	77.6	74.4	74.4	74.4
42.5°	1711.5	669.7	145.6	110.0	90.6	80.9	74.4	67.9	67.9	64.7	64.7
45°	1925.0	650.3	135.9	100.3	84.1	71.2	67.9	61.5	58.2	58.2	58.2
47.5°	2203.3	653.5	126.2	90.6	77.6	64.7	61.5	58.2	51.8	51.8	51.8
50°	2433.0	637.4	116.5	84.1	67.9	61.5	55.0	51.8	48.5	48.5	48.5
52.5°	2523.6	608.2	106.8	77.6	64.7	55.0	51.8	48.5	45.3	45.3	45.3
55°	2614.2	595.3	97.1	67.9	58.2	55.0	48.5	45.3	42.1	38.8	38.8
57.5°	2779.2	601.8	87.4	64.7	55.0	51.8	45.3	38.8	32.4	29.1	29.1
60°	2866.5	579.1	80.9	58.2	51.8	48.5	38.8	29.1	22.6	19.4	19.4
62.5°	2792.1	514.4	74.4	55.0	48.5	42.1	29.1	22.6	16.2	9.7	9.7
65°	2585.1	423.8	67.9	51.8	42.1	32.4	25.9	16.2	9.7	6.5	6.5
67.5°	2323.0	333.2	61.5	48.5	38.8	29.1	22.6	12.9	6.5	3.2	3.2
70°	1876.5	239.4	58.2	45.3	35.6	25.9	19.4	12.9	6.5	3.2	3.2
72.5°	1210.0	155.3	51.8	42.1	32.4	25.9	16.2	9.7	6.5	3.2	3.2
75°	559.7	103.5	48.5	38.8	32.4	22.6	16.2	12.9	6.5	3.2	3.2
77.5°	165.0	74.4	45.3	35.6	29.1	22.6	16.2	12.9	6.5	3.2	3.2
80°	67.9	51.8	35.6	32.4	29.1	22.6	16.2	12.9	6.5	3.2	3.2
82.5°	32.4	22.6	16.2	12.9	16.2	16.2	12.9	12.9	6.5	3.2	3.2
85°	16.2	9.7	6.5	6.5	6.5	3.2	3.2	6.5	6.5	3.2	3.2
87.5°	9.7	6.5	6.5	6.5	3.2	3.2	3.2	0.0	0.0	0.0	0.0
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)