

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: P572887

Luminaire Tested: **ARCH-S-PA2-130-727-U-T2R-HSS**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P572887
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-PA2-130-727-U-T2R-HSS
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 1295mA 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: 10430 lumens
Efficiency: N/A
Efficacy: 79.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

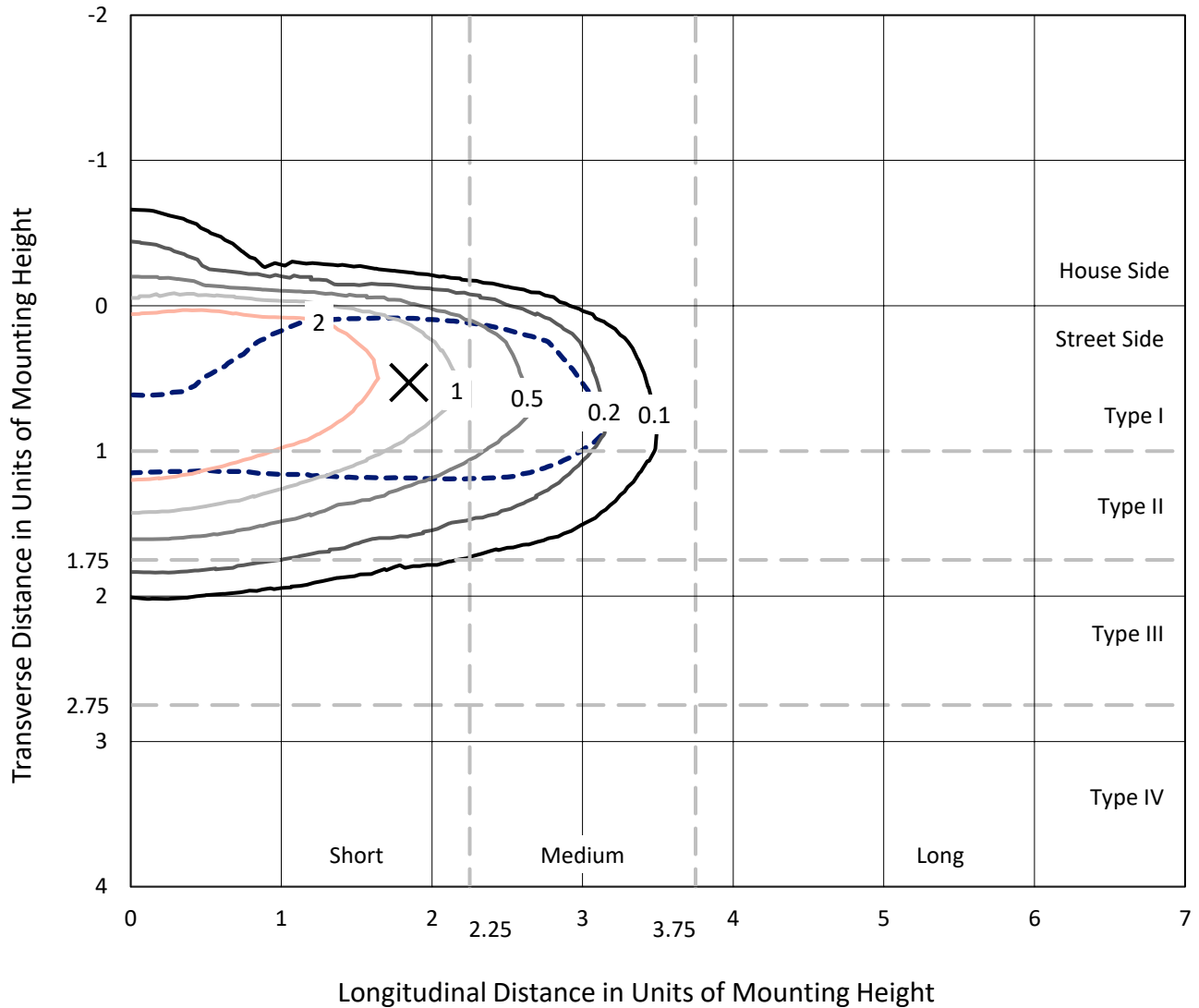
Input Watts (W): 131.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

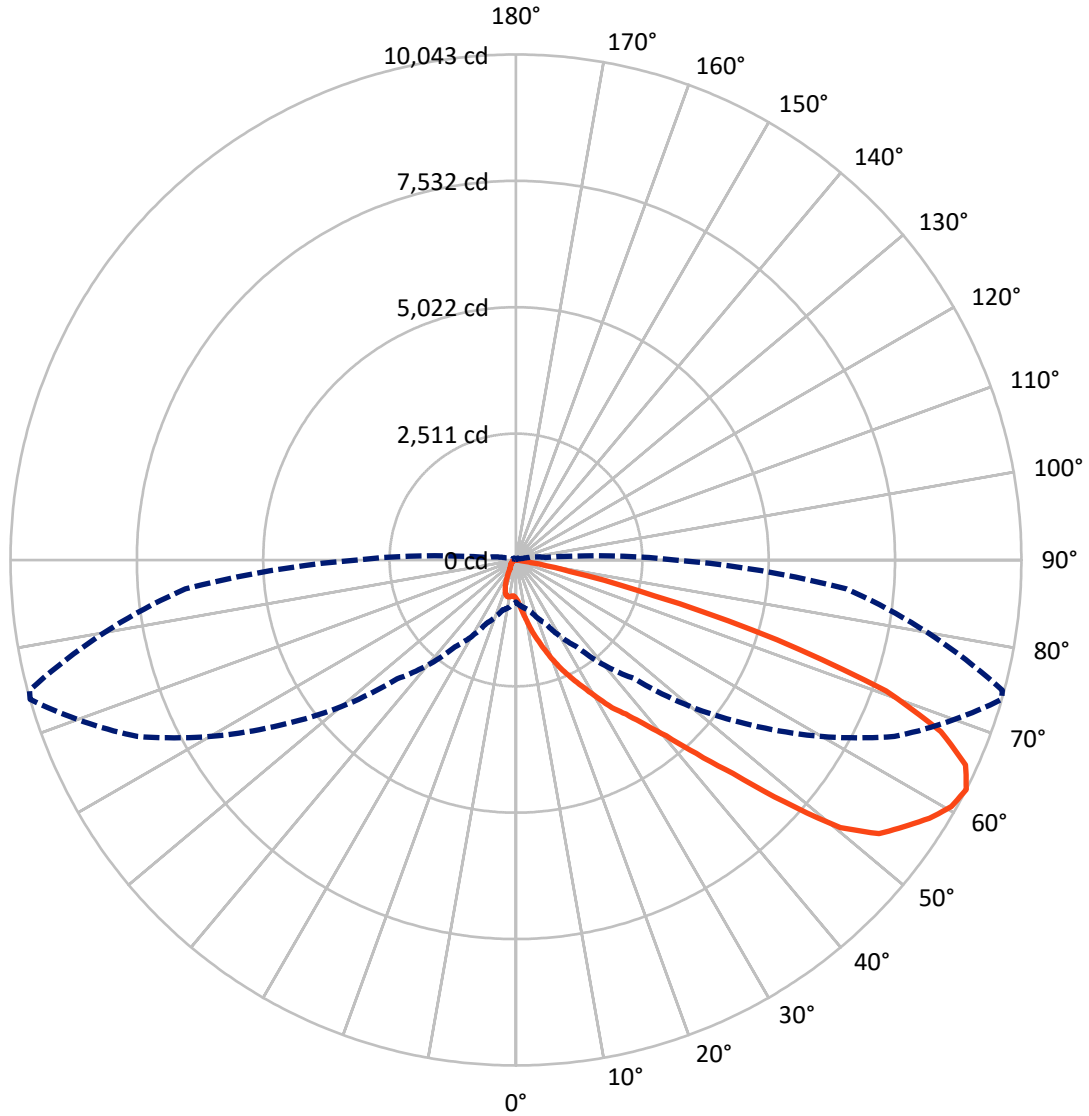
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 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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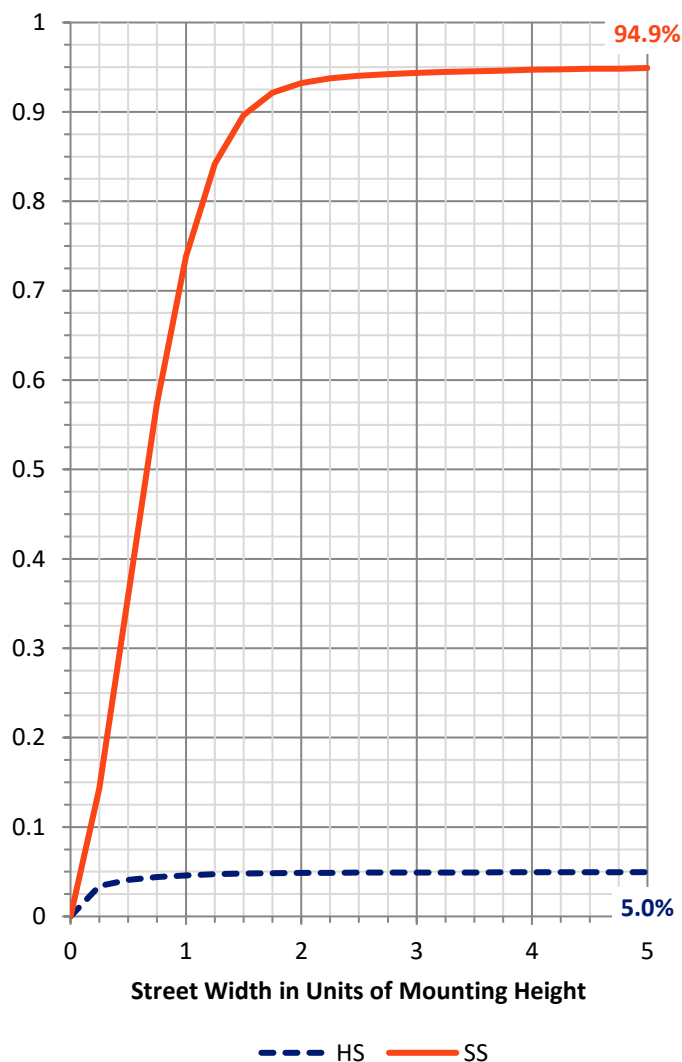
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	520.2	0.0	520.2
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	9909.8	0.0	9909.8
	% Fixture	95.0	0.0	95.0
Total	Lumens	10430.0	0.0	10430.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.5	0.9
10°-20°	401.1	3.8
20°-30°	860.7	8.3
30°-40°	1509.6	14.5
40°-50°	2340.3	22.4
50°-60°	2698.0	25.9
60°-70°	1895.4	18.2
70°-80°	590.5	5.7
80°-90°	39.0	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°	10430.0	100.0
0°-180°	10430.0	100.0

Coefficient of Utilization

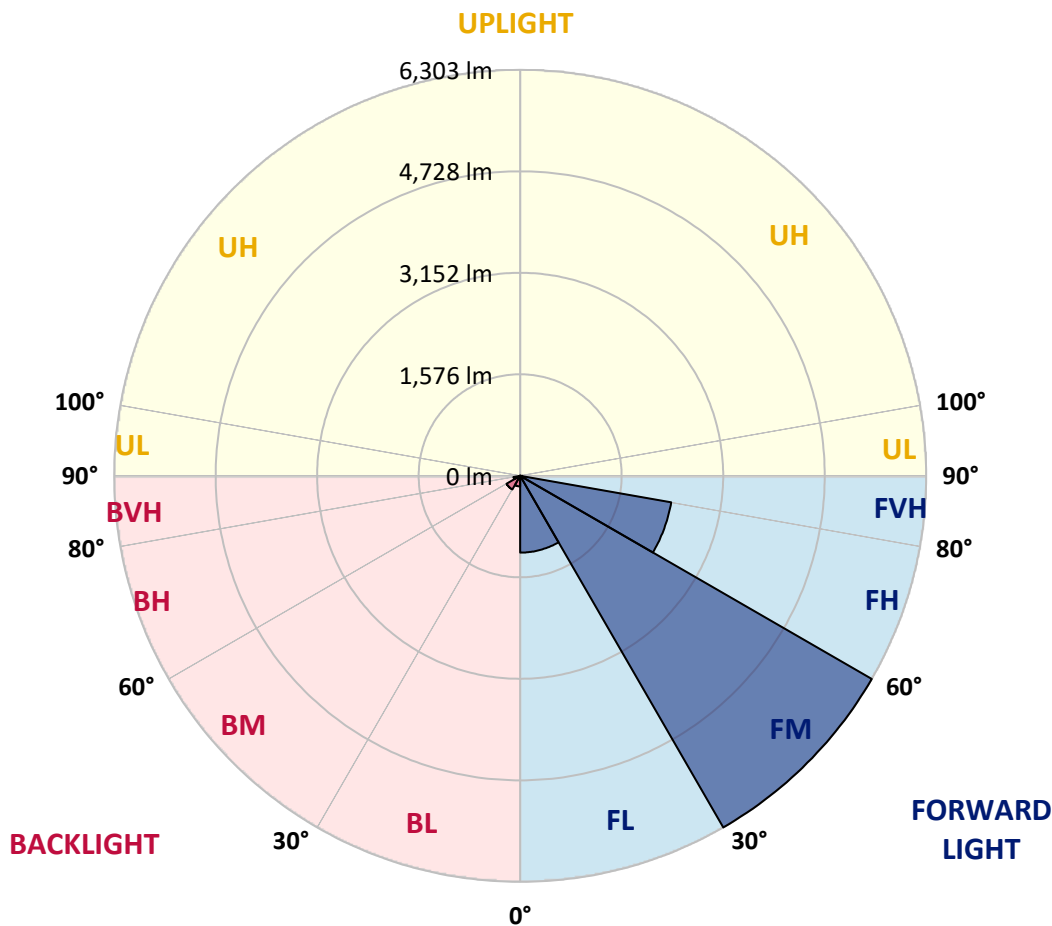


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1192.2	11.4			
FM (30°-60°)	6303.3	60.4			
FH (60°-80°)	2380.6	22.8			G2/5000
FVH (80°-90°)	33.7	0.3			G1/100
BL (0°-30°)	165.1	1.6	B1/500		
BM (30°-60°)	244.5	2.3	B1/1000		
BH (60°-80°)	105.3	1.0	B0/110		G0/110
BVH (80°-90°)	5.4	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°	763.5	763.5	763.5	763.5	763.5	763.5	763.5	763.5	763.5	763.5	763.5
2.5°	1060.8	1042.5	1020.5	1002.1	965.4	939.7	906.7	870.0	829.6	825.9	792.9
5°	1486.6	1431.6	1431.6	1383.9	1328.8	1229.7	1137.9	1024.1	939.7	932.4	844.3
7.5°	1923.5	1879.4	1853.7	1780.3	1692.2	1582.1	1435.2	1244.4	1090.2	1064.5	921.3
10°	2330.9	2297.9	2250.1	2191.4	2114.3	1934.5	1750.9	1501.3	1255.4	1237.0	1013.1
12.5°	2646.6	2606.2	2584.2	2558.5	2459.4	2316.2	2077.6	1761.9	1468.3	1427.9	1104.9
15°	2885.2	2866.8	2844.8	2844.8	2793.4	2653.9	2408.0	2040.9	1673.8	1626.1	1222.3
17.5°	3076.1	3054.0	3050.4	3072.4	3057.7	2958.6	2727.3	2308.9	1886.7	1850.0	1343.5
20°	3289.0	3259.6	3259.6	3277.9	3274.3	3219.2	3017.3	2617.2	2136.4	2070.3	1483.0
22.5°	3590.0	3571.6	3556.9	3527.6	3505.5	3454.1	3277.9	2918.2	2375.0	2312.5	1626.1
25°	3993.7	3971.7	3905.6	3854.2	3758.8	3681.7	3531.2	3186.2	2617.2	2547.5	1765.6
27.5°	4386.5	4342.5	4280.0	4214.0	4107.5	3975.4	3788.2	3439.5	2870.5	2797.1	1908.8
30°	4801.3	4768.3	4691.2	4584.7	4452.6	4305.7	4081.8	3744.1	3160.5	3079.7	2062.9
32.5°	5131.7	5080.3	5010.5	4907.7	4771.9	4669.1	4426.9	4078.2	3494.5	3388.1	2224.5
35°	5395.9	5355.6	5263.8	5164.7	5061.9	5032.5	4768.3	4349.8	3762.5	3663.4	2397.0
37.5°	5564.8	5524.4	5447.3	5348.2	5307.8	5359.2	5186.7	4720.5	4122.2	3997.4	2595.2
40°	5696.9	5649.2	5586.8	5542.8	5528.1	5671.2	5652.9	5201.4	4595.7	4522.3	2866.8
42.5°	5792.4	5744.7	5704.3	5700.6	5796.1	6075.0	6280.6	5873.1	5256.5	5106.0	3215.5
45°	5671.2	5630.9	5652.9	5781.4	6012.6	6453.1	7040.4	6823.9	6053.0	5946.6	3773.5
47.5°	5333.5	5307.8	5407.0	5641.9	6071.4	6684.4	7774.6	7866.3	7190.9	7029.4	4496.6
50°	4805.0	4801.3	4959.1	5278.5	5887.8	6772.5	8145.3	8868.4	8358.2	8193.0	5083.9
52.5°	4089.2	4074.5	4305.7	4749.9	5454.7	6607.3	8215.1	9268.5	9033.6	8839.1	5454.7
55°	3277.9	3244.9	3520.2	4008.4	4816.0	6126.4	8027.8	9356.6	9356.6	9180.4	5730.0
57.5°	2305.2	2356.6	2584.2	3171.5	4026.8	5407.0	7565.3	9275.9	9683.3	9532.8	6100.7
60°	1453.6	1475.6	1725.2	2198.8	3054.0	4445.2	6739.4	8927.2	9944.0	9855.9	6398.0
62.5°	836.9	906.7	1031.5	1391.2	2107.0	3340.3	5719.0	8299.5	10043.1	10006.4	6592.6
65°	510.2	517.6	576.3	785.5	1295.8	2279.5	4577.4	7425.8	9819.2	9852.2	6555.9
67.5°	381.8	381.8	400.1	495.5	737.8	1449.9	3377.1	6365.0	9103.4	9209.8	6210.8
70°	330.4	330.4	334.0	363.4	455.2	858.9	2231.8	5131.7	7803.9	7792.9	5131.7
72.5°	260.6	271.6	293.7	308.3	345.0	502.9	1306.8	3586.3	5421.6	5550.1	3303.6
75°	209.2	212.9	242.3	268.0	290.0	341.4	616.7	1993.2	2844.8	2844.8	1453.6
77.5°	161.5	168.9	187.2	212.9	242.3	242.3	256.9	770.8	1101.2	1064.5	429.5
80°	102.8	106.5	135.8	168.9	201.9	172.5	139.5	256.9	301.0	290.0	117.5
82.5°	62.4	66.1	88.1	135.8	135.8	95.4	88.1	106.5	95.4	88.1	47.7
85°	18.4	22.0	62.4	88.1	77.1	36.7	44.0	47.7	44.0	40.4	25.7
87.5°	3.7	3.7	18.4	22.0	18.4	18.4	14.7	18.4	18.4	18.4	11.0
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°	763.5	763.5	763.5	763.5	763.5	763.5	763.5	763.5	763.5	763.5	763.5
2.5°	774.5	759.8	730.5	708.4	690.1	671.7	657.1	653.4	646.0	646.0	642.4
5°	807.6	774.5	719.5	682.8	653.4	627.7	605.7	583.6	576.3	569.0	572.6
7.5°	858.9	807.6	730.5	675.4	624.0	565.3	517.6	477.2	447.8	440.5	429.5
10°	925.0	847.9	748.8	660.7	565.3	462.5	396.4	356.1	341.4	323.0	326.7
12.5°	991.1	895.7	763.5	620.4	466.2	363.4	308.3	282.6	271.6	268.0	271.6
15°	1068.2	947.0	756.2	546.9	374.4	293.7	260.6	249.6	242.3	242.3	238.6
17.5°	1145.3	991.1	730.5	451.5	301.0	249.6	234.9	223.9	216.6	212.9	212.9
20°	1229.7	1031.5	671.7	359.7	249.6	227.6	212.9	198.2	190.9	190.9	190.9
22.5°	1317.8	1060.8	594.7	286.3	223.9	201.9	187.2	176.2	168.9	168.9	168.9
25°	1394.9	1075.5	502.9	238.6	205.6	183.5	168.9	157.8	154.2	150.5	150.5
27.5°	1468.3	1071.8	407.4	209.2	183.5	165.2	150.5	143.2	135.8	135.8	135.8
30°	1541.7	1049.8	323.0	190.9	168.9	146.8	135.8	128.5	124.8	121.1	121.1
32.5°	1604.1	1013.1	253.3	176.2	154.2	132.1	121.1	113.8	113.8	110.1	110.1
35°	1666.5	958.1	212.9	165.2	139.5	121.1	110.1	106.5	102.8	102.8	102.8
37.5°	1732.6	888.3	187.2	150.5	124.8	110.1	102.8	99.1	95.4	91.8	91.8
40°	1813.3	818.6	176.2	139.5	113.8	99.1	91.8	88.1	84.4	84.4	84.4
42.5°	1941.8	759.8	165.2	124.8	102.8	91.8	84.4	77.1	77.1	73.4	73.4
45°	2184.1	737.8	154.2	113.8	95.4	80.8	77.1	69.7	66.1	66.1	66.1
47.5°	2499.8	741.5	143.2	102.8	88.1	73.4	69.7	66.1	58.7	58.7	58.7
50°	2760.4	723.1	132.1	95.4	77.1	69.7	62.4	58.7	55.1	55.1	55.1
52.5°	2863.2	690.1	121.1	88.1	73.4	62.4	58.7	55.1	51.4	51.4	51.4
55°	2965.9	675.4	110.1	77.1	66.1	62.4	55.1	51.4	47.7	44.0	44.0
57.5°	3153.1	682.8	99.1	73.4	62.4	58.7	51.4	44.0	36.7	33.0	33.0
60°	3252.3	657.1	91.8	66.1	58.7	55.1	44.0	33.0	25.7	22.0	22.0
62.5°	3167.8	583.6	84.4	62.4	55.1	47.7	33.0	25.7	18.4	11.0	11.0
65°	2932.9	480.9	77.1	58.7	47.7	36.7	29.4	18.4	11.0	7.3	7.3
67.5°	2635.6	378.1	69.7	55.1	44.0	33.0	25.7	14.7	7.3	3.7	3.7
70°	2129.0	271.6	66.1	51.4	40.4	29.4	22.0	14.7	7.3	3.7	3.7
72.5°	1372.8	176.2	58.7	47.7	36.7	29.4	18.4	11.0	7.3	3.7	3.7
75°	635.0	117.5	55.1	44.0	36.7	25.7	18.4	14.7	7.3	3.7	3.7
77.5°	187.2	84.4	51.4	40.4	33.0	25.7	18.4	14.7	7.3	3.7	3.7
80°	77.1	58.7	40.4	36.7	33.0	25.7	18.4	14.7	7.3	3.7	3.7
82.5°	36.7	25.7	18.4	14.7	18.4	18.4	14.7	14.7	7.3	3.7	3.7
85°	18.4	11.0	7.3	7.3	7.3	3.7	3.7	7.3	7.3	3.7	3.7
87.5°	11.0	7.3	7.3	7.3	3.7	3.7	3.7	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)