

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: P572734

Luminaire Tested: **ARCH-S-PA2-110-730-U-T2R-HSS**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P572734
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-PA2-110-730-U-T2R-HSS
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 70 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: 10535 lumens
Efficiency: N/A
Efficacy: 92.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

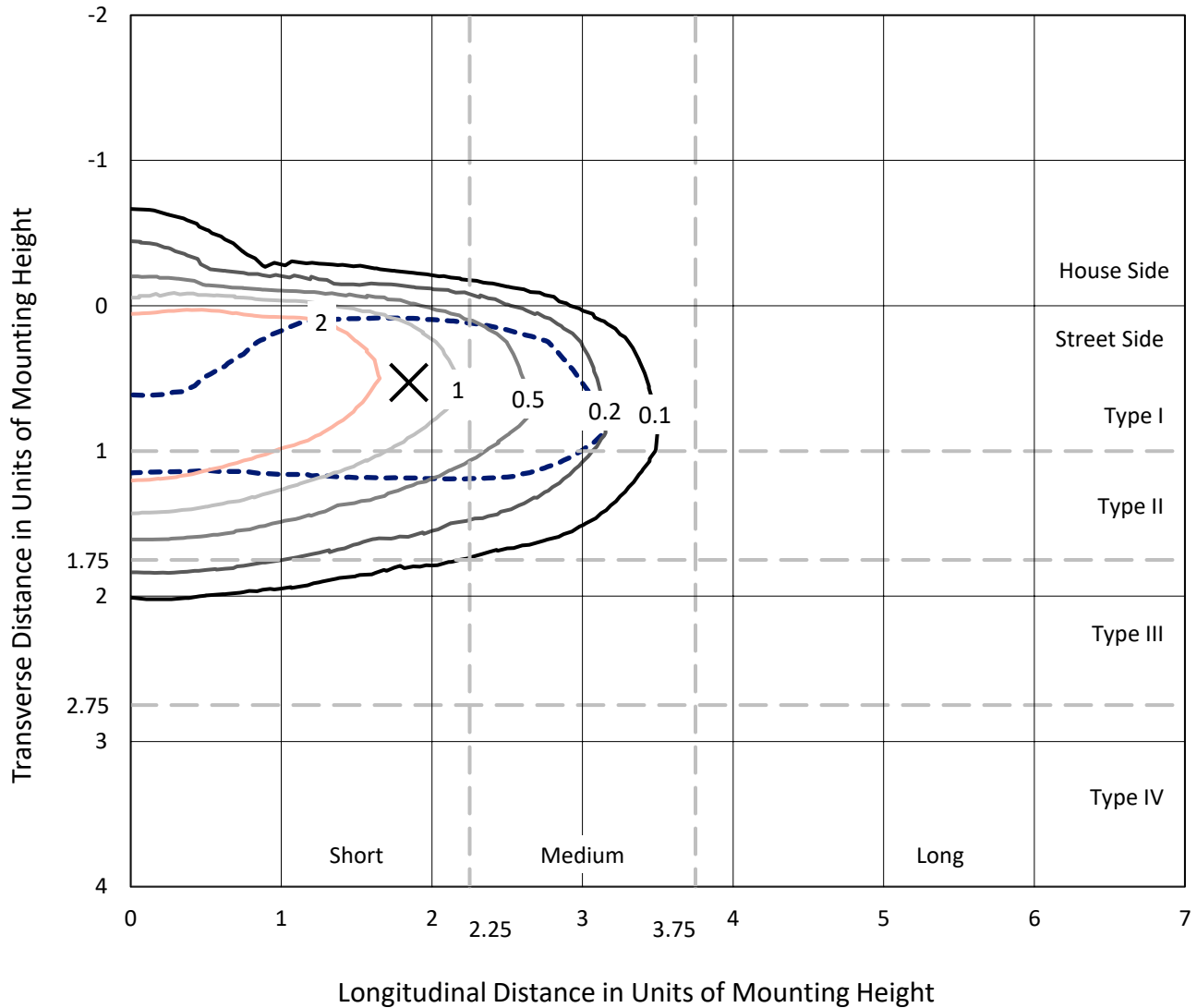
Input Watts (W): 114.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

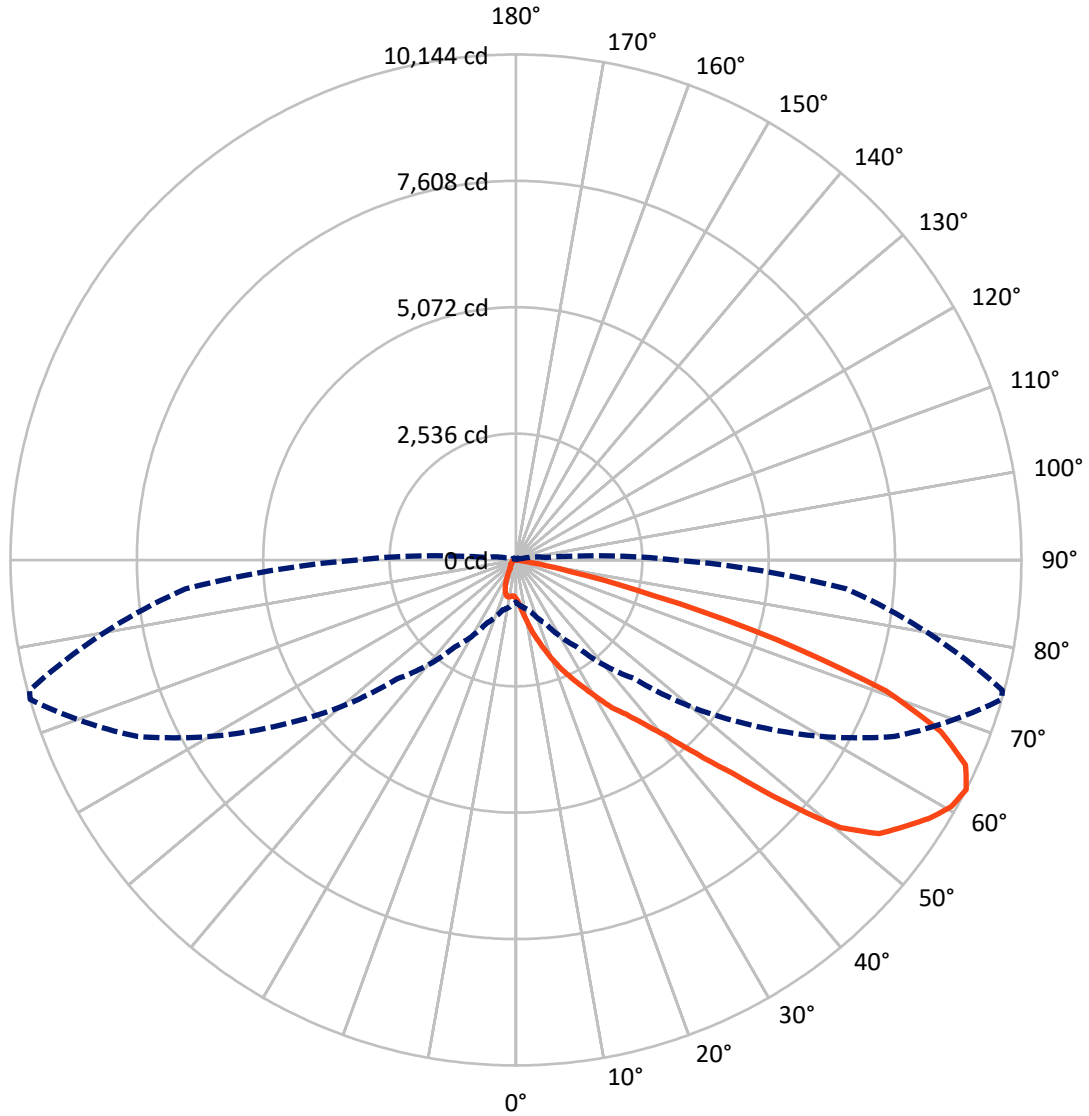
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 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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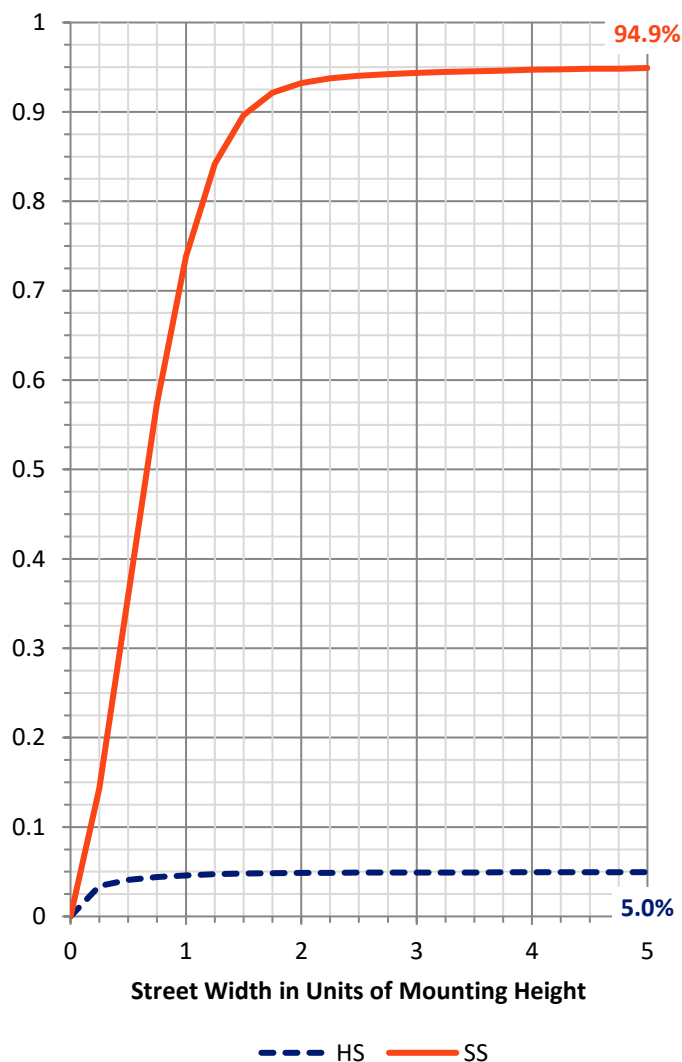
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	525.4	0.0	525.4
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	10009.6	0.0	10009.6
	% Fixture	95.0	0.0	95.0
Total	Lumens	10535.0	0.0	10535.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.4	0.9
10°-20°	405.1	3.8
20°-30°	869.4	8.3
30°-40°	1524.8	14.5
40°-50°	2363.8	22.4
50°-60°	2725.1	25.9
60°-70°	1914.5	18.2
70°-80°	596.4	5.7
80°-90°	39.4	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°	10535.0	100.0
0°-180°	10535.0	100.0

Coefficient of Utilization



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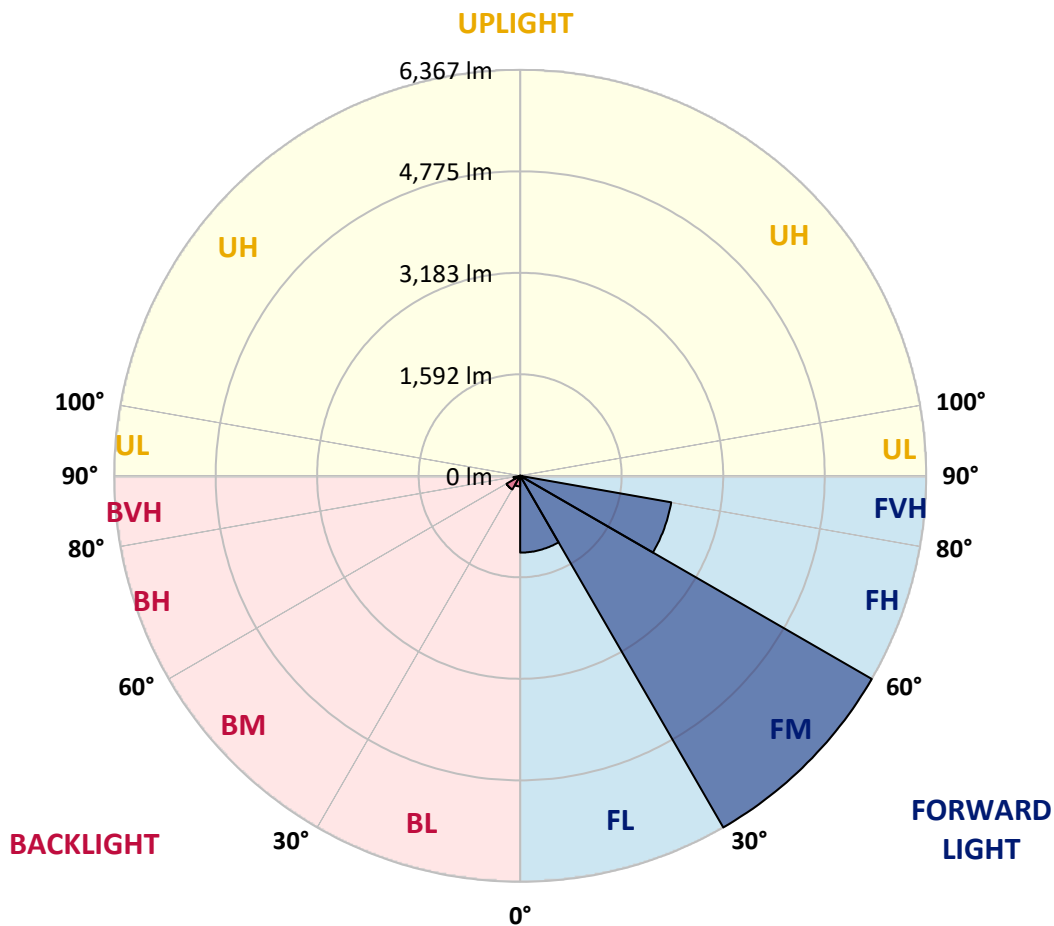
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1204.2	11.4			
FM (30°-60°)	6366.8	60.4			
FH (60°-80°)	2404.6	22.8			G2/5000
FVH (80°-90°)	34.0	0.3			G1/100
BL (0°-30°)	166.8	1.6	B1/500		
BM (30°-60°)	246.9	2.3	B1/1000		
BH (60°-80°)	106.3	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°	771.2	771.2	771.2	771.2	771.2	771.2	771.2	771.2	771.2	771.2	771.2
2.5°	1071.5	1053.0	1030.7	1012.2	975.1	949.2	915.8	878.7	837.9	834.2	800.9
5°	1501.6	1446.0	1446.0	1397.8	1342.2	1242.1	1149.4	1034.4	949.2	941.7	852.8
7.5°	1942.8	1898.3	1872.4	1798.2	1709.2	1598.0	1449.7	1256.9	1101.2	1075.2	930.6
10°	2354.4	2321.0	2272.8	2213.5	2135.6	1953.9	1768.6	1516.4	1268.0	1249.5	1023.3
12.5°	2673.2	2632.4	2610.2	2584.2	2484.1	2339.5	2098.5	1779.7	1483.1	1442.3	1116.0
15°	2914.2	2895.7	2873.4	2873.4	2821.5	2680.6	2432.2	2061.5	1690.7	1642.5	1234.7
17.5°	3107.0	3084.8	3081.1	3103.3	3088.5	2988.4	2754.8	2332.1	1905.7	1868.7	1357.0
20°	3322.1	3292.4	3292.4	3310.9	3307.2	3251.6	3047.7	2643.6	2157.9	2091.1	1497.9
22.5°	3626.1	3607.6	3592.7	3563.1	3540.8	3488.9	3310.9	2947.6	2398.9	2335.8	1642.5
25°	4033.9	4011.7	3945.0	3893.0	3796.6	3718.8	3566.8	3218.3	2643.6	2573.1	1783.4
27.5°	4430.7	4386.2	4323.1	4256.4	4148.9	4015.4	3826.3	3474.1	2899.4	2825.2	1928.0
30°	4849.6	4816.3	4738.4	4630.9	4497.4	4349.1	4122.9	3781.8	3192.3	3110.7	2083.7
32.5°	5183.3	5131.4	5061.0	4957.1	4820.0	4716.1	4471.4	4119.2	3529.7	3422.2	2246.8
35°	5450.3	5409.5	5316.8	5216.7	5112.9	5083.2	4816.3	4393.6	3800.4	3700.2	2421.1
37.5°	5620.8	5580.0	5502.2	5402.1	5361.3	5413.2	5238.9	4768.1	4163.7	4037.6	2621.3
40°	5754.3	5706.1	5643.1	5598.6	5583.7	5728.3	5709.8	5253.8	4642.0	4567.8	2895.7
42.5°	5850.7	5802.5	5761.7	5758.0	5854.4	6136.2	6343.8	5932.3	5309.4	5157.4	3247.9
45°	5728.3	5687.6	5709.8	5839.6	6073.2	6518.1	7111.3	6892.5	6113.9	6006.4	3811.5
47.5°	5387.2	5361.3	5461.4	5698.7	6132.5	6751.7	7852.8	7945.5	7263.3	7100.2	4541.9
50°	4853.3	4849.6	5009.1	5331.6	5947.1	6840.6	8227.3	8957.7	8442.4	8275.5	5135.1
52.5°	4130.3	4115.5	4349.1	4797.7	5509.6	6673.8	8297.8	9361.9	9124.6	8928.1	5509.6
55°	3310.9	3277.6	3555.7	4048.8	4864.5	6188.1	8108.7	9450.8	9450.8	9272.9	5787.7
57.5°	2328.4	2380.3	2610.2	3203.4	4067.3	5461.4	7641.5	9369.3	9780.8	9628.8	6162.1
60°	1468.2	1490.5	1742.6	2220.9	3084.8	4490.0	6807.3	9017.0	10044.1	9955.1	6462.5
62.5°	845.3	915.8	1041.9	1405.2	2128.2	3374.0	5776.5	8383.0	10144.2	10107.1	6659.0
65°	515.4	522.8	582.1	793.4	1308.8	2302.5	4623.5	7500.6	9918.0	9951.4	6621.9
67.5°	385.6	385.6	404.1	500.5	745.2	1464.5	3411.1	6429.1	9195.0	9302.5	6273.4
70°	333.7	333.7	337.4	367.1	459.8	867.6	2254.3	5183.3	7882.5	7871.4	5183.3
72.5°	263.2	274.4	296.6	311.4	348.5	508.0	1319.9	3622.4	5476.2	5606.0	3336.9
75°	211.3	215.0	244.7	270.7	292.9	344.8	622.9	2013.3	2873.4	2873.4	1468.2
77.5°	163.1	170.6	189.1	215.0	244.7	244.7	259.5	778.6	1112.3	1075.2	433.8
80°	103.8	107.5	137.2	170.6	203.9	174.3	140.9	259.5	304.0	292.9	118.6
82.5°	63.0	66.7	89.0	137.2	137.2	96.4	89.0	107.5	96.4	89.0	48.2
85°	18.5	22.2	63.0	89.0	77.9	37.1	44.5	48.2	44.5	40.8	26.0
87.5°	3.7	3.7	18.5	22.2	18.5	18.5	14.8	18.5	18.5	18.5	11.1
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°	771.2	771.2	771.2	771.2	771.2	771.2	771.2	771.2	771.2	771.2	771.2
2.5°	782.3	767.5	737.8	715.6	697.0	678.5	663.7	660.0	652.5	652.5	648.8
5°	815.7	782.3	726.7	689.6	660.0	634.0	611.8	589.5	582.1	574.7	578.4
7.5°	867.6	815.7	737.8	682.2	630.3	571.0	522.8	482.0	452.3	444.9	433.8
10°	934.3	856.5	756.4	667.4	571.0	467.2	400.4	359.6	344.8	326.3	330.0
12.5°	1001.1	904.7	771.2	626.6	470.9	367.1	311.4	285.5	274.4	270.7	274.4
15°	1078.9	956.6	763.8	552.4	378.2	296.6	263.2	252.1	244.7	244.7	241.0
17.5°	1156.8	1001.1	737.8	456.0	304.0	252.1	237.3	226.2	218.8	215.0	215.0
20°	1242.1	1041.9	678.5	363.4	252.1	229.9	215.0	200.2	192.8	192.8	192.8
22.5°	1331.1	1071.5	600.6	289.2	226.2	203.9	189.1	178.0	170.6	170.6	170.6
25°	1408.9	1086.3	508.0	241.0	207.6	185.4	170.6	159.4	155.7	152.0	152.0
27.5°	1483.1	1082.6	411.6	211.3	185.4	166.8	152.0	144.6	137.2	137.2	137.2
30°	1557.2	1060.4	326.3	192.8	170.6	148.3	137.2	129.8	126.1	122.4	122.4
32.5°	1620.2	1023.3	255.8	178.0	155.7	133.5	122.4	114.9	114.9	111.2	111.2
35°	1683.3	967.7	215.0	166.8	140.9	122.4	111.2	107.5	103.8	103.8	103.8
37.5°	1750.0	897.3	189.1	152.0	126.1	111.2	103.8	100.1	96.4	92.7	92.7
40°	1831.6	826.8	178.0	140.9	114.9	100.1	92.7	89.0	85.3	85.3	85.3
42.5°	1961.4	767.5	166.8	126.1	103.8	92.7	85.3	77.9	77.9	74.2	74.2
45°	2206.1	745.2	155.7	114.9	96.4	81.6	77.9	70.4	66.7	66.7	66.7
47.5°	2524.9	748.9	144.6	103.8	89.0	74.2	70.4	66.7	59.3	59.3	59.3
50°	2788.2	730.4	133.5	96.4	77.9	70.4	63.0	59.3	55.6	55.6	55.6
52.5°	2892.0	697.0	122.4	89.0	74.2	63.0	59.3	55.6	51.9	51.9	51.9
55°	2995.8	682.2	111.2	77.9	66.7	63.0	55.6	51.9	48.2	44.5	44.5
57.5°	3184.9	689.6	100.1	74.2	63.0	59.3	51.9	44.5	37.1	33.4	33.4
60°	3285.0	663.7	92.7	66.7	59.3	55.6	44.5	33.4	26.0	22.2	22.2
62.5°	3199.7	589.5	85.3	63.0	55.6	48.2	33.4	26.0	18.5	11.1	11.1
65°	2962.4	485.7	77.9	59.3	48.2	37.1	29.7	18.5	11.1	7.4	7.4
67.5°	2662.1	381.9	70.4	55.6	44.5	33.4	26.0	14.8	7.4	3.7	3.7
70°	2150.4	274.4	66.7	51.9	40.8	29.7	22.2	14.8	7.4	3.7	3.7
72.5°	1386.7	178.0	59.3	48.2	37.1	29.7	18.5	11.1	7.4	3.7	3.7
75°	641.4	118.6	55.6	44.5	37.1	26.0	18.5	14.8	7.4	3.7	3.7
77.5°	189.1	85.3	51.9	40.8	33.4	26.0	18.5	14.8	7.4	3.7	3.7
80°	77.9	59.3	40.8	37.1	33.4	26.0	18.5	14.8	7.4	3.7	3.7
82.5°	37.1	26.0	18.5	14.8	18.5	18.5	14.8	14.8	7.4	3.7	3.7
85°	18.5	11.1	7.4	7.4	7.4	3.7	3.7	7.4	7.4	3.7	3.7
87.5°	11.1	7.4	7.4	7.4	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)