

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: P573490

Luminaire Tested: **ARCH-S-PA2-80-750-U-T2R-HSS**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P573490
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-PA2-80-750-U-T2R-HSS
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 820mA 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: 9103 lumens
Efficiency: N/A
Efficacy: 109.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

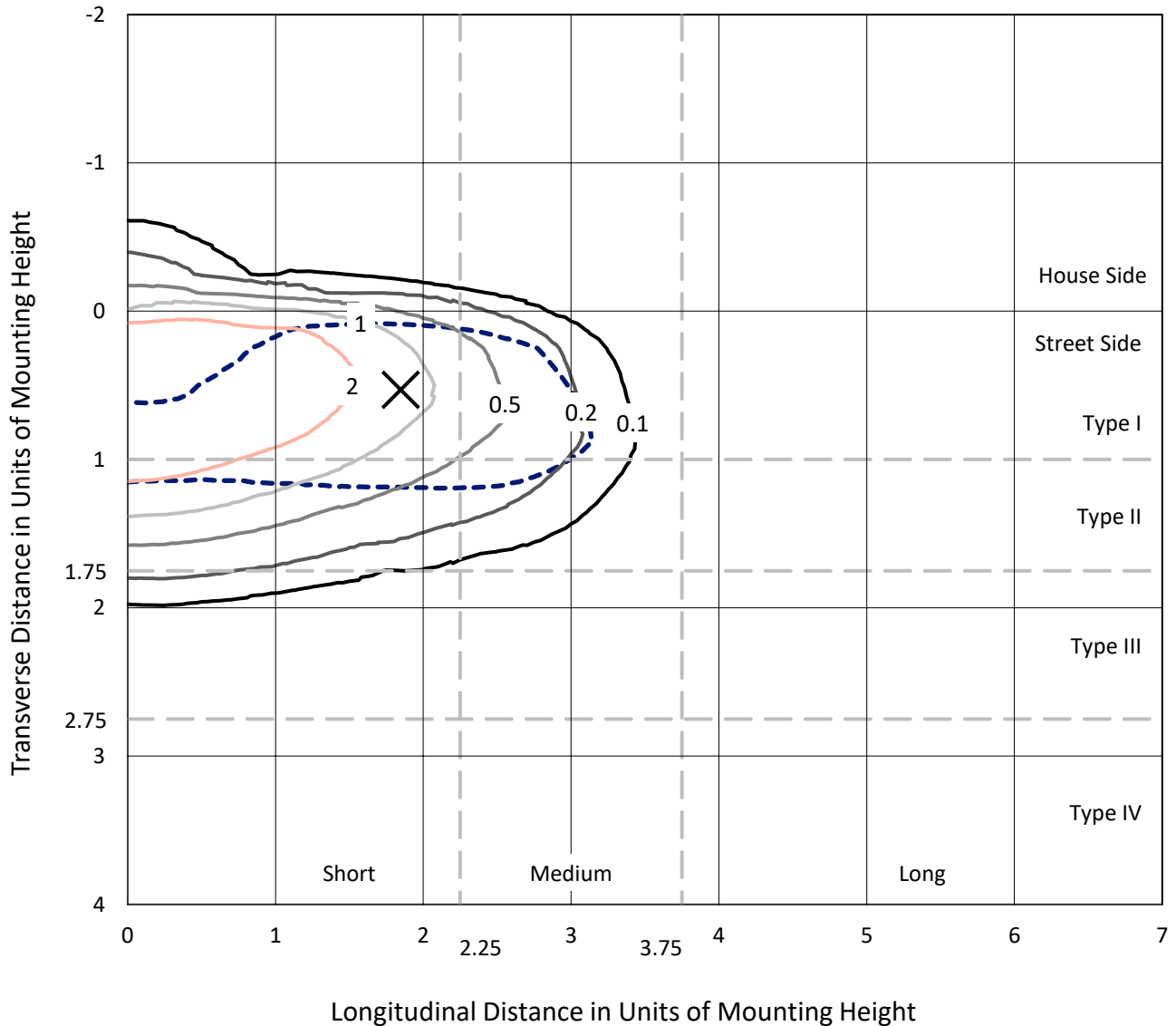
Input Watts (W): 83
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

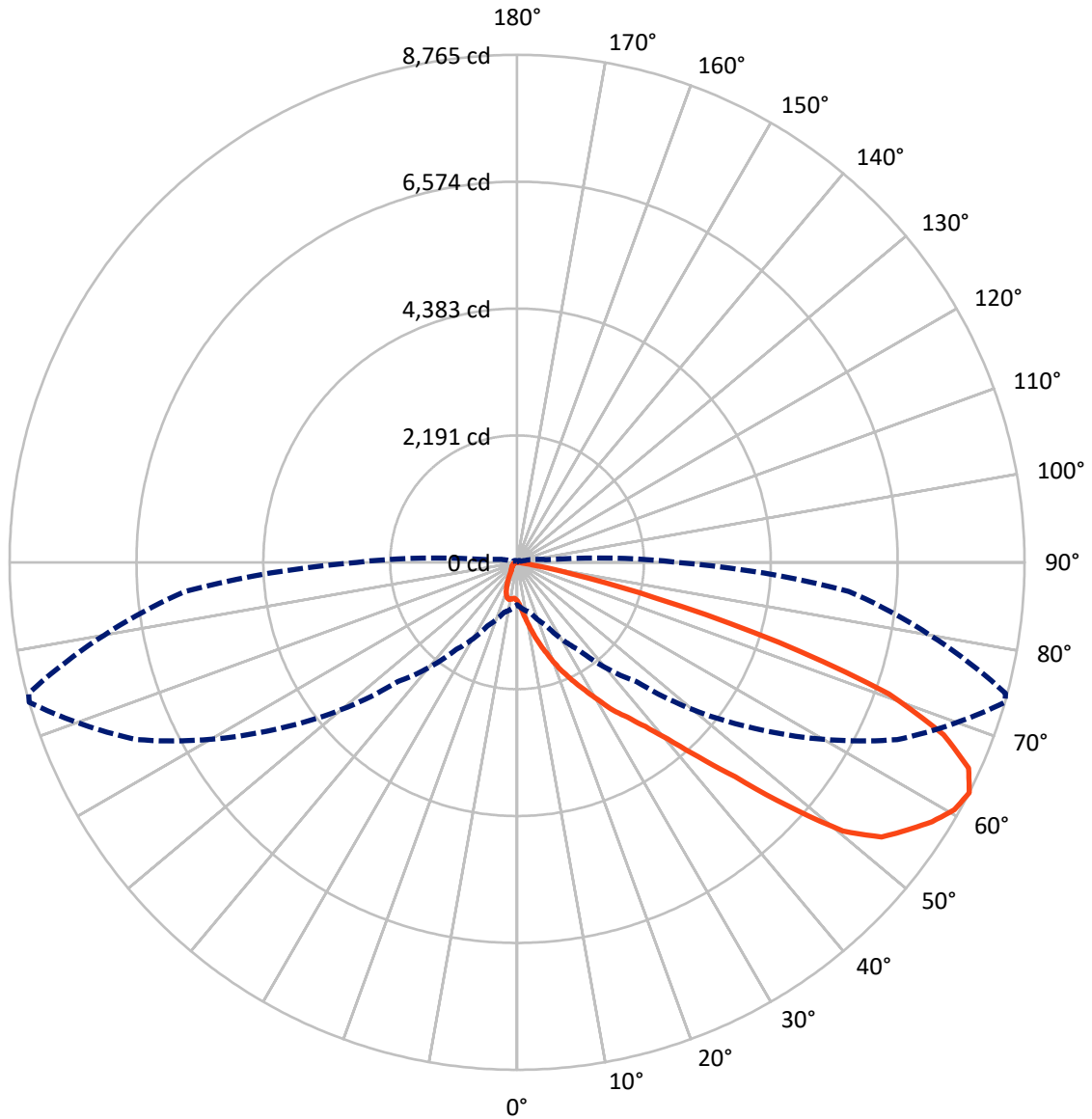
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 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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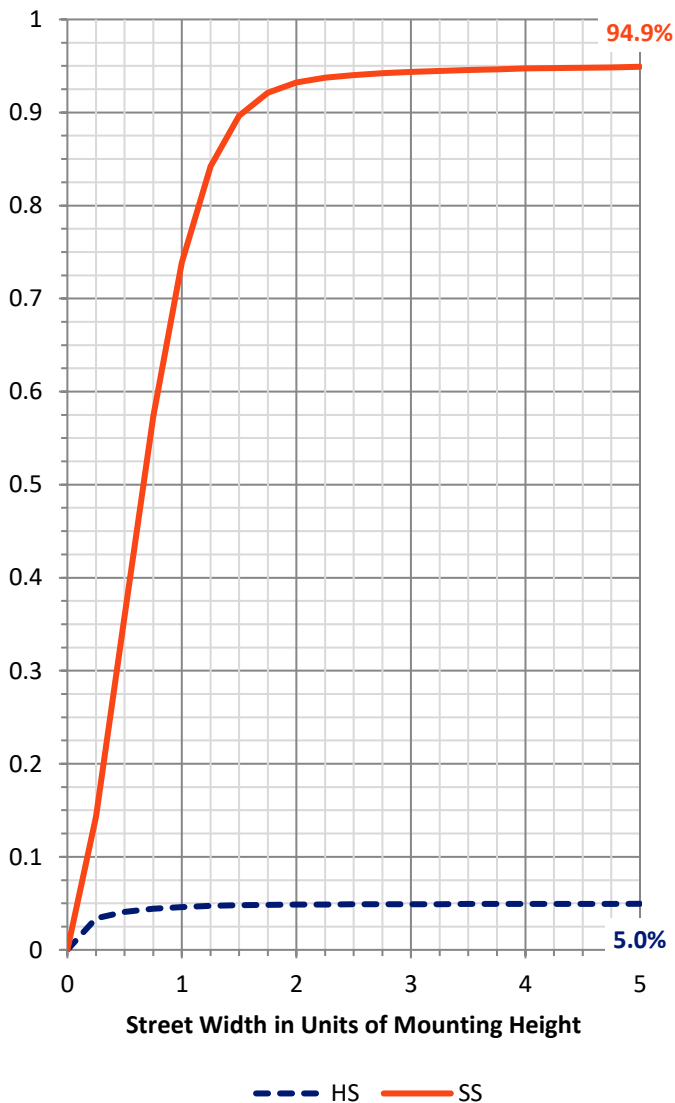
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	454.0	0.0	454.0
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	8649.0	0.0	8649.0
	% Fixture	95.0	0.0	95.0
Total	Lumens	9103.0	0.0	9103.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.3	0.9
10°-20°	350.1	3.8
20°-30°	751.2	8.3
30°-40°	1317.5	14.5
40°-50°	2042.5	22.4
50°-60°	2354.7	25.9
60°-70°	1654.2	18.2
70°-80°	515.4	5.7
80°-90°	34.1	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°	9103.0	100.0
0°-180°	9103.0	100.0

Coefficient of Utilization



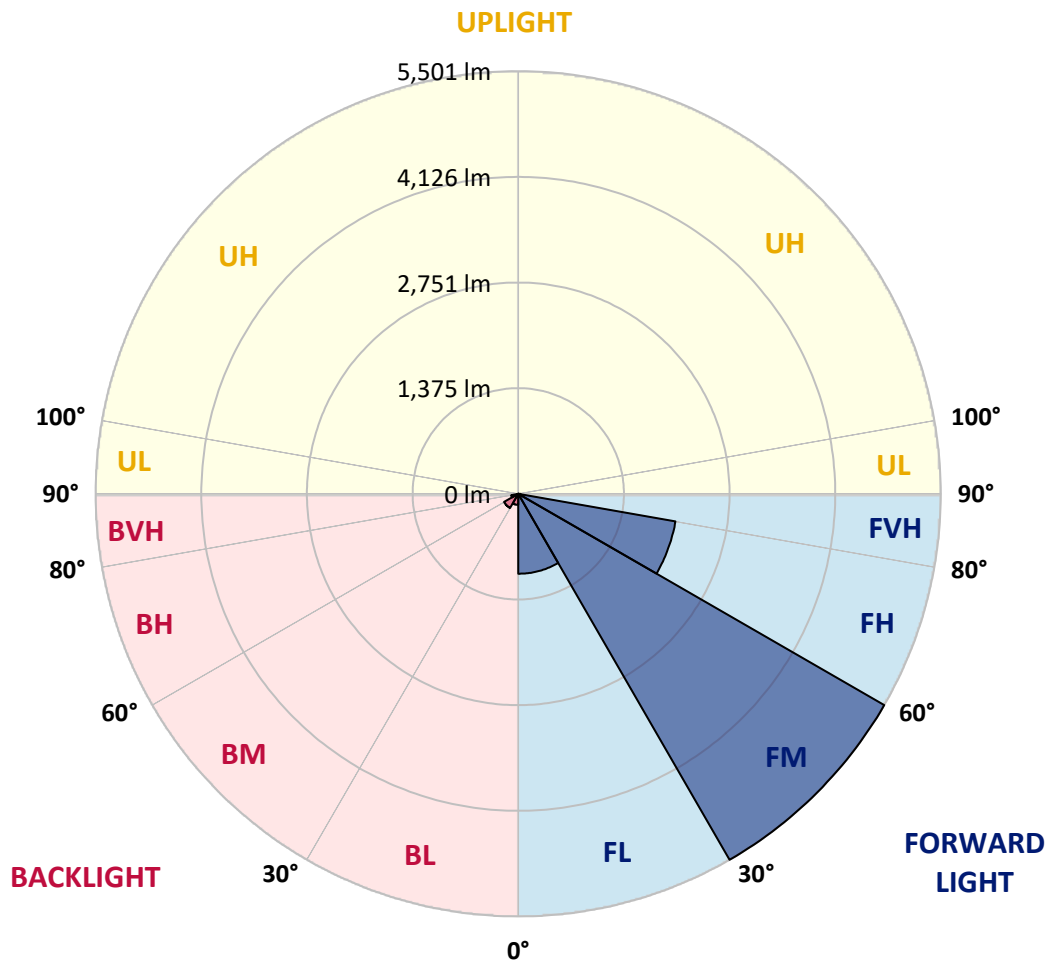
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1040.5	11.4			
FM (30°-60°)	5501.4	60.4			
FH (60°-80°)	2077.7	22.8			G2/5000
FVH (80°-90°)	29.4	0.3			G1/100
BL (0°-30°)	144.1	1.6	B1/500		
BM (30°-60°)	213.4	2.3	B0/220		
BH (60°-80°)	91.9	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°	666.4	666.4	666.4	666.4	666.4	666.4	666.4	666.4	666.4	666.4	666.4
2.5°	925.9	909.8	890.6	874.6	842.6	820.1	791.3	759.3	724.0	720.8	692.0
5°	1297.5	1249.4	1249.4	1207.8	1159.7	1073.2	993.1	893.8	820.1	813.7	736.8
7.5°	1678.7	1640.3	1617.9	1553.8	1476.9	1380.8	1252.6	1086.1	951.5	929.1	804.1
10°	2034.3	2005.5	1963.9	1912.6	1845.3	1688.3	1528.2	1310.3	1095.7	1079.6	884.2
12.5°	2309.9	2274.6	2255.4	2233.0	2146.5	2021.5	1813.3	1537.8	1281.5	1246.2	964.3
15°	2518.1	2502.1	2482.9	2482.9	2438.0	2316.3	2101.6	1781.3	1460.9	1419.2	1066.8
17.5°	2684.7	2665.5	2662.3	2681.5	2668.7	2582.2	2380.3	2015.1	1646.7	1614.7	1172.6
20°	2870.5	2844.9	2844.9	2860.9	2857.7	2809.6	2633.4	2284.2	1864.5	1806.9	1294.3
22.5°	3133.2	3117.2	3104.4	3078.7	3059.5	3014.7	2860.9	2546.9	2072.8	2018.3	1419.2
25°	3485.6	3466.4	3408.7	3363.9	3280.6	3213.3	3081.9	2780.8	2284.2	2223.4	1541.0
27.5°	3828.4	3790.0	3735.5	3677.8	3584.9	3469.6	3306.2	3001.9	2505.3	2441.2	1665.9
30°	4190.4	4161.6	4094.3	4001.4	3886.1	3757.9	3562.5	3267.8	2758.4	2687.9	1800.5
32.5°	4478.8	4433.9	4373.0	4283.3	4164.8	4075.1	3863.6	3559.3	3049.9	2957.0	1941.4
35°	4709.4	4674.2	4594.1	4507.6	4417.9	4392.3	4161.6	3796.4	3283.8	3197.3	2092.0
37.5°	4856.8	4821.6	4754.3	4667.8	4632.5	4677.4	4526.8	4119.9	3597.7	3488.8	2265.0
40°	4972.1	4930.5	4876.0	4837.6	4824.8	4949.7	4933.7	4539.6	4011.0	3946.9	2502.1
42.5°	5055.4	5013.8	4978.5	4975.3	5058.6	5302.1	5481.5	5125.9	4587.7	4456.3	2806.4
45°	4949.7	4914.5	4933.7	5045.8	5247.6	5632.1	6144.7	5955.7	5282.9	5190.0	3293.4
47.5°	4655.0	4632.5	4719.0	4924.1	5298.9	5833.9	6785.4	6865.5	6276.0	6135.1	3924.5
50°	4193.6	4190.4	4328.2	4606.9	5138.7	5910.8	7109.0	7740.1	7294.8	7150.6	4437.1
52.5°	3568.9	3556.1	3757.9	4145.6	4760.7	5766.6	7169.9	8089.3	7884.3	7714.5	4760.7
55°	2860.9	2832.1	3072.3	3498.4	4203.2	5347.0	7006.5	8166.2	8166.2	8012.4	5001.0
57.5°	2011.9	2056.8	2255.4	2768.0	3514.4	4719.0	6602.8	8095.7	8451.3	8320.0	5324.5
60°	1268.7	1287.9	1505.7	1919.0	2665.5	3879.7	5882.0	7791.4	8678.8	8601.9	5584.0
62.5°	730.4	791.3	900.2	1214.2	1838.9	2915.4	4991.3	7243.5	8765.3	8733.3	5753.8
65°	445.3	451.7	503.0	685.6	1130.9	1989.5	3995.0	6481.1	8569.9	8598.7	5721.8
67.5°	333.2	333.2	349.2	432.5	643.9	1265.5	2947.4	5555.2	7945.2	8038.1	5420.6
70°	288.3	288.3	291.5	317.2	397.3	749.7	1947.8	4478.8	6811.0	6801.4	4478.8
72.5°	227.5	237.1	256.3	269.1	301.1	438.9	1140.5	3130.0	4731.8	4844.0	2883.3
75°	182.6	185.8	211.4	233.9	253.1	297.9	538.2	1739.6	2482.9	2482.9	1268.7
77.5°	141.0	147.4	163.4	185.8	211.4	211.4	224.3	672.8	961.1	929.1	374.8
80°	89.7	92.9	118.5	147.4	176.2	150.6	121.7	224.3	262.7	253.1	102.5
82.5°	54.5	57.7	76.9	118.5	118.5	83.3	76.9	92.9	83.3	76.9	41.6
85°	16.0	19.2	54.5	76.9	67.3	32.0	38.4	41.6	38.4	35.2	22.4
87.5°	3.2	3.2	16.0	19.2	16.0	16.0	12.8	16.0	16.0	16.0	9.6
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°	666.4	666.4	666.4	666.4	666.4	666.4	666.4	666.4	666.4	666.4	666.4
2.5°	676.0	663.2	637.5	618.3	602.3	586.3	573.5	570.3	563.8	563.8	560.6
5°	704.8	676.0	627.9	595.9	570.3	547.8	528.6	509.4	503.0	496.6	499.8
7.5°	749.7	704.8	637.5	589.5	544.6	493.4	451.7	416.5	390.9	384.4	374.8
10°	807.3	740.1	653.6	576.7	493.4	403.7	346.0	310.8	297.9	281.9	285.1
12.5°	865.0	781.7	666.4	541.4	406.9	317.2	269.1	246.7	237.1	233.9	237.1
15°	932.3	826.6	660.0	477.3	326.8	256.3	227.5	217.9	211.4	211.4	208.2
17.5°	999.6	865.0	637.5	394.1	262.7	217.9	205.0	195.4	189.0	185.8	185.8
20°	1073.2	900.2	586.3	314.0	217.9	198.6	185.8	173.0	166.6	166.6	166.6
22.5°	1150.1	925.9	519.0	249.9	195.4	176.2	163.4	153.8	147.4	147.4	147.4
25°	1217.4	938.7	438.9	208.2	179.4	160.2	147.4	137.8	134.6	131.4	131.4
27.5°	1281.5	935.5	355.6	182.6	160.2	144.2	131.4	124.9	118.5	118.5	118.5
30°	1345.5	916.3	281.9	166.6	147.4	128.1	118.5	112.1	108.9	105.7	105.7
32.5°	1400.0	884.2	221.1	153.8	134.6	115.3	105.7	99.3	99.3	96.1	96.1
35°	1454.5	836.2	185.8	144.2	121.7	105.7	96.1	92.9	89.7	89.7	89.7
37.5°	1512.1	775.3	163.4	131.4	108.9	96.1	89.7	86.5	83.3	80.1	80.1
40°	1582.6	714.4	153.8	121.7	99.3	86.5	80.1	76.9	73.7	73.7	73.7
42.5°	1694.8	663.2	144.2	108.9	89.7	80.1	73.7	67.3	67.3	64.1	64.1
45°	1906.2	643.9	134.6	99.3	83.3	70.5	67.3	60.9	57.7	57.7	57.7
47.5°	2181.7	647.1	124.9	89.7	76.9	64.1	60.9	57.7	51.3	51.3	51.3
50°	2409.2	631.1	115.3	83.3	67.3	60.9	54.5	51.3	48.1	48.1	48.1
52.5°	2498.9	602.3	105.7	76.9	64.1	54.5	51.3	48.1	44.9	44.9	44.9
55°	2588.6	589.5	96.1	67.3	57.7	54.5	48.1	44.9	41.6	38.4	38.4
57.5°	2752.0	595.9	86.5	64.1	54.5	51.3	44.9	38.4	32.0	28.8	28.8
60°	2838.5	573.5	80.1	57.7	51.3	48.1	38.4	28.8	22.4	19.2	19.2
62.5°	2764.8	509.4	73.7	54.5	48.1	41.6	28.8	22.4	16.0	9.6	9.6
65°	2559.7	419.7	67.3	51.3	41.6	32.0	25.6	16.0	9.6	6.4	6.4
67.5°	2300.2	330.0	60.9	48.1	38.4	28.8	22.4	12.8	6.4	3.2	3.2
70°	1858.1	237.1	57.7	44.9	35.2	25.6	19.2	12.8	6.4	3.2	3.2
72.5°	1198.2	153.8	51.3	41.6	32.0	25.6	16.0	9.6	6.4	3.2	3.2
75°	554.2	102.5	48.1	38.4	32.0	22.4	16.0	12.8	6.4	3.2	3.2
77.5°	163.4	73.7	44.9	35.2	28.8	22.4	16.0	12.8	6.4	3.2	3.2
80°	67.3	51.3	35.2	32.0	28.8	22.4	16.0	12.8	6.4	3.2	3.2
82.5°	32.0	22.4	16.0	12.8	16.0	16.0	12.8	12.8	6.4	3.2	3.2
85°	16.0	9.6	6.4	6.4	6.4	3.2	3.2	6.4	6.4	3.2	3.2
87.5°	9.6	6.4	6.4	6.4	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)