

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: P572950

Luminaire Tested: **ARCH-S-PA2-130-830-U-T2R-HSS**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P572950
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-PA2-130-830-U-T2R-HSS
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 80 CRI, 3000K, 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: 9910 lumens
Efficiency: N/A
Efficacy: 75.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

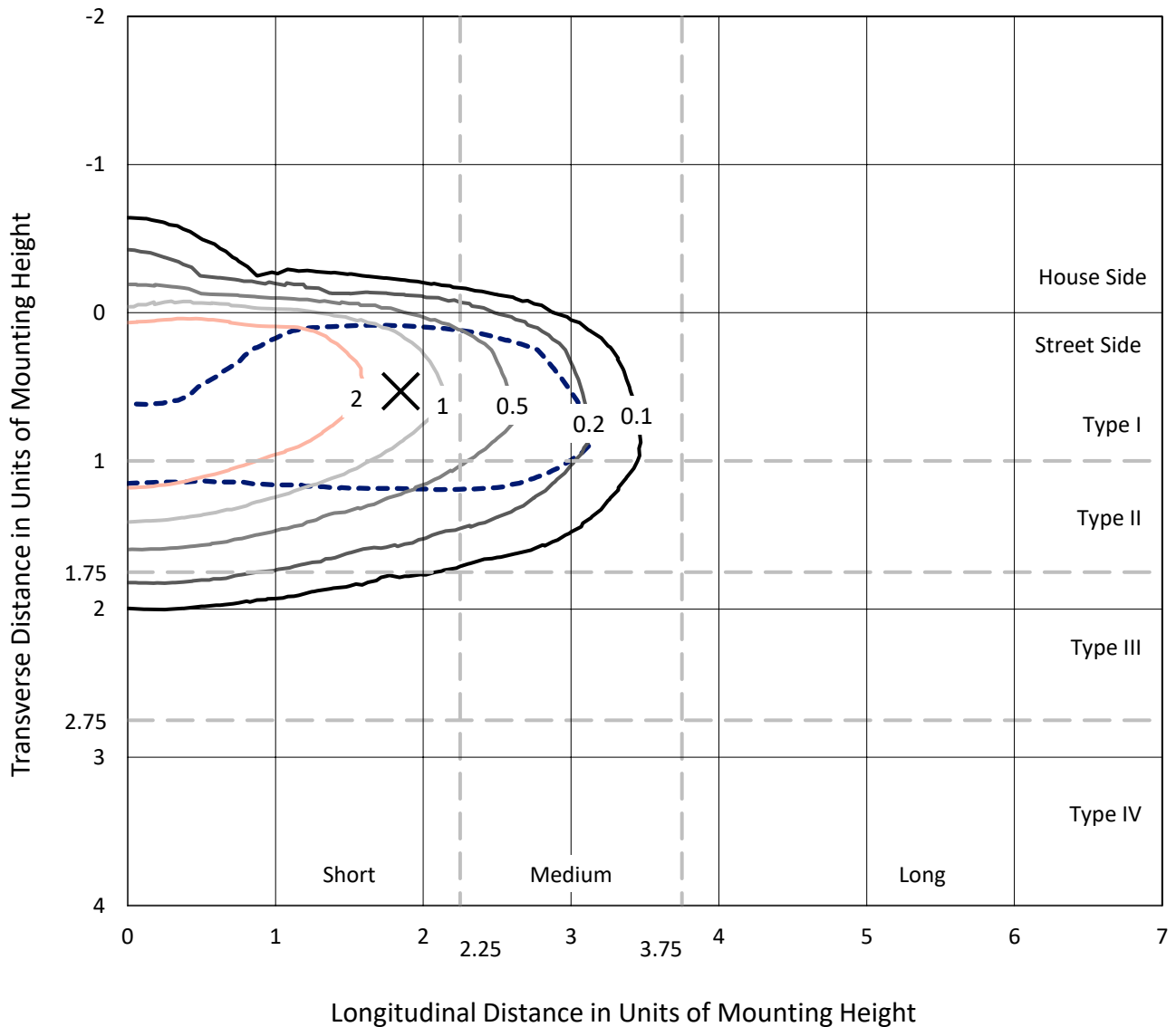
Input Watts (W): 131.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

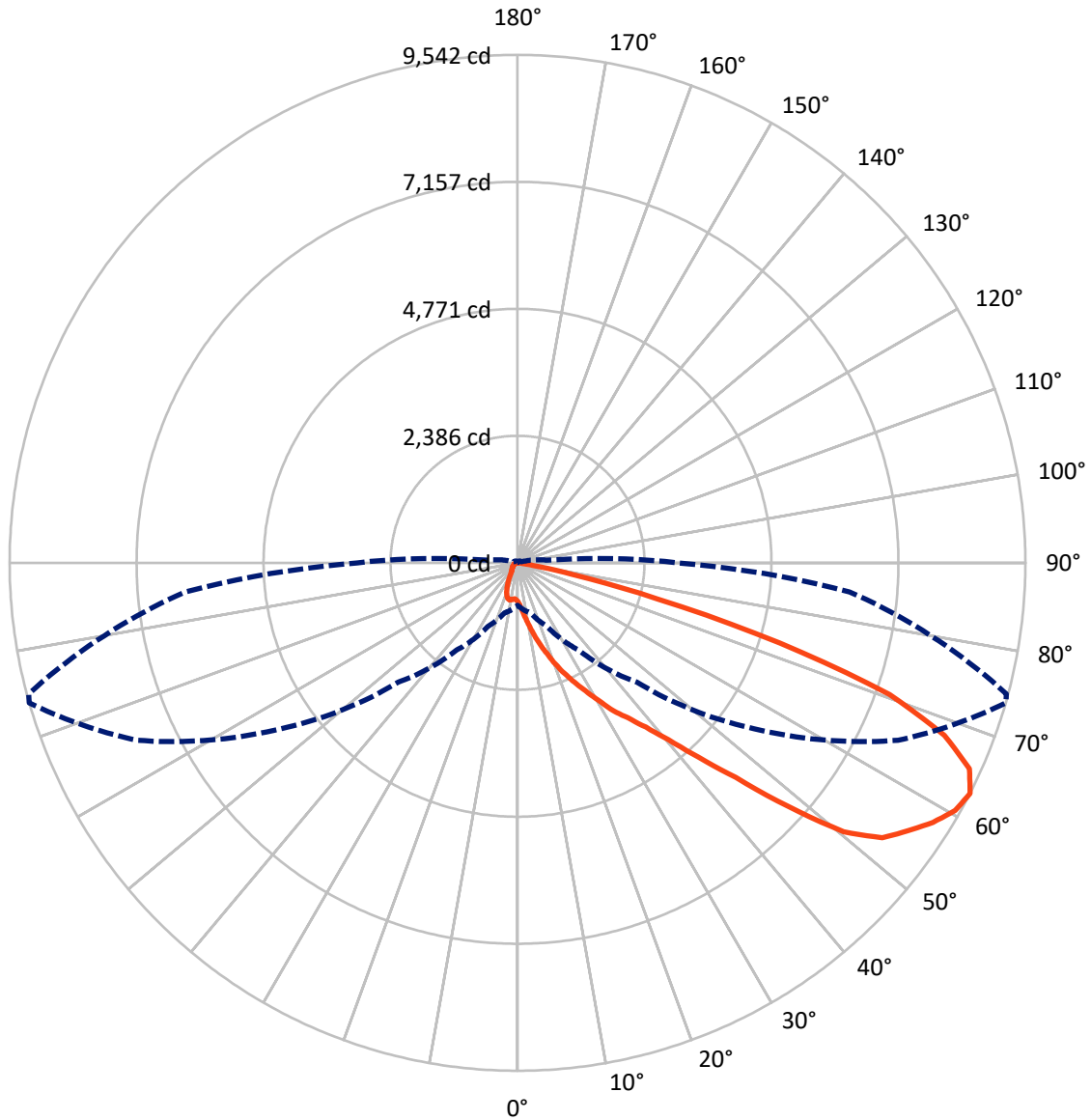
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 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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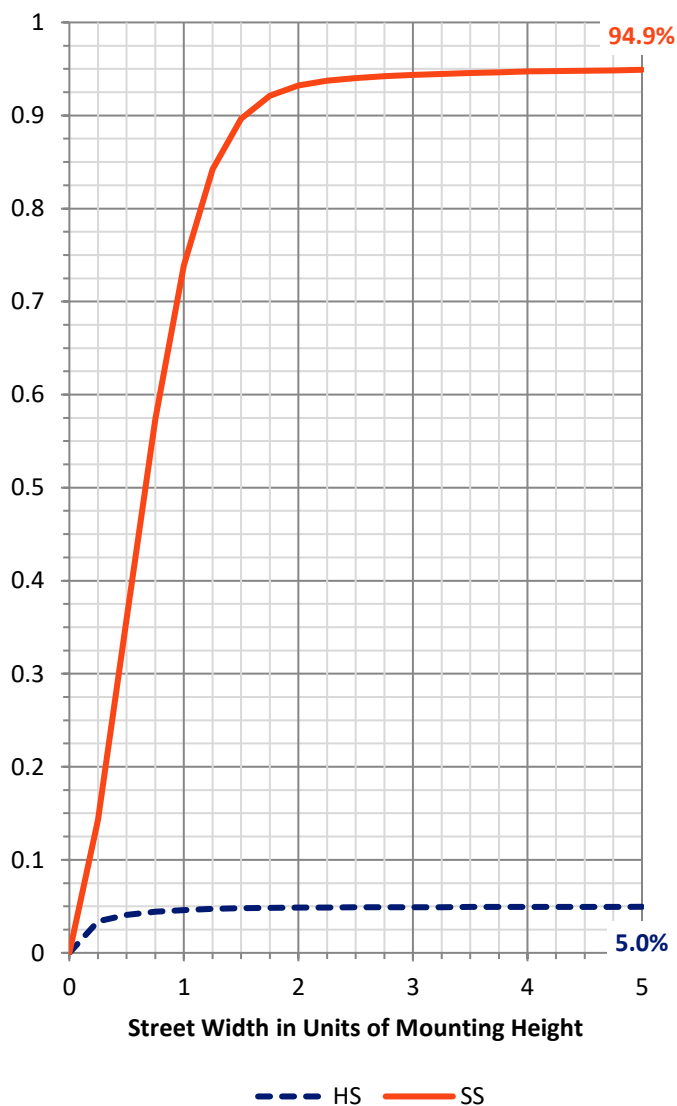
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	494.3	0.0	494.3
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	9415.7	0.0	9415.7
	% Fixture	95.0	0.0	95.0
Total	Lumens	9910.0	0.0	9910.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.7	0.9
10°-20°	381.1	3.8
20°-30°	817.8	8.3
30°-40°	1434.3	14.5
40°-50°	2223.6	22.4
50°-60°	2563.4	25.9
60°-70°	1800.9	18.2
70°-80°	561.1	5.7
80°-90°	37.1	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°	9910.0	100.0
0°-180°	9910.0	100.0

Coefficient of Utilization

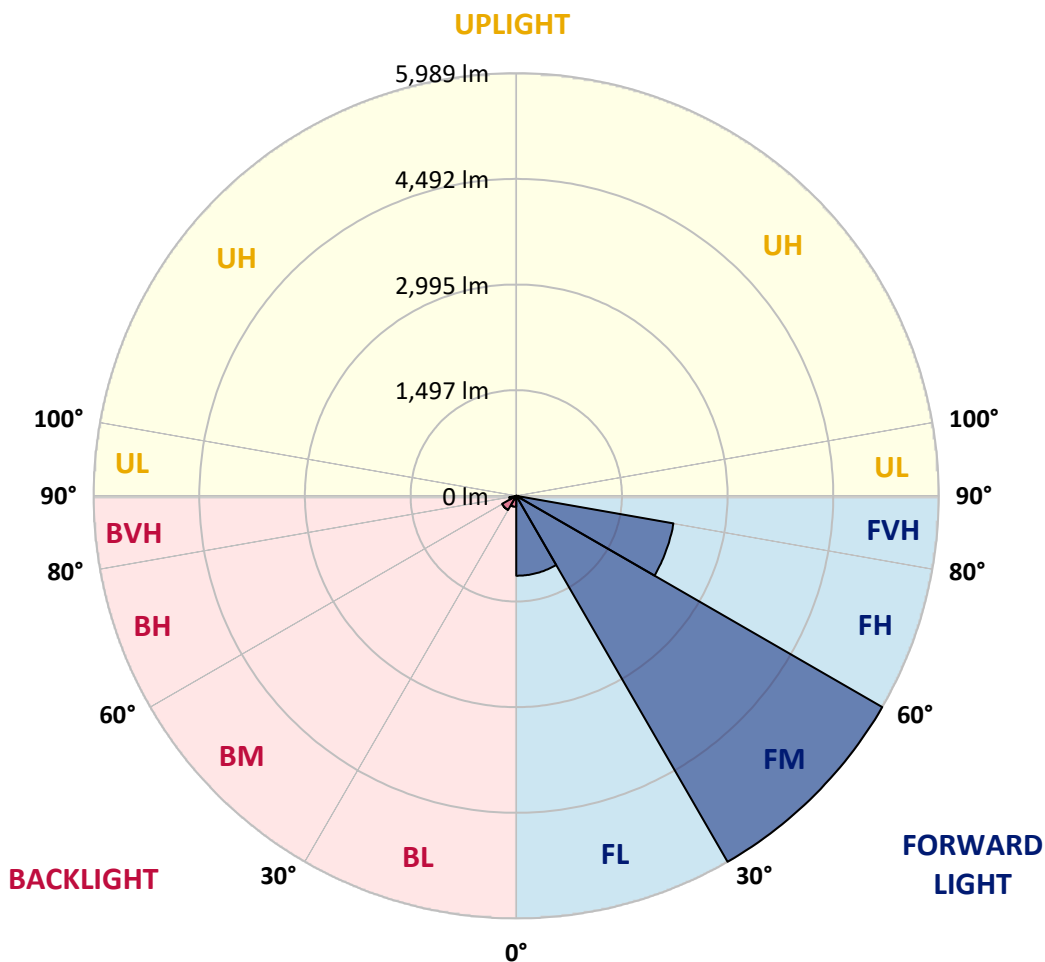


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1132.8	11.4			
FM (30°-60°)	5989.1	60.4			
FH (60°-80°)	2261.9	22.8			G2/5000
FVH (80°-90°)	32.0	0.3			G1/100
BL (0°-30°)	156.9	1.6	B1/500		
BM (30°-60°)	232.3	2.3	B1/1000		
BH (60°-80°)	100.0	1.0	B0/110		G0/110
BVH (80°-90°)	5.1	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°	725.4	725.4	725.4	725.4	725.4	725.4	725.4	725.4	725.4	725.4	725.4
2.5°	1007.9	990.5	969.6	952.1	917.3	892.9	861.5	826.6	788.2	784.7	753.3
5°	1412.5	1360.2	1360.2	1314.9	1262.5	1168.4	1081.2	973.1	892.9	885.9	802.2
7.5°	1827.6	1785.7	1761.3	1691.5	1607.8	1503.2	1363.7	1182.3	1035.8	1011.4	875.4
10°	2214.7	2183.3	2138.0	2082.2	2008.9	1838.0	1663.6	1426.5	1192.8	1175.4	962.6
12.5°	2514.6	2476.3	2455.3	2430.9	2336.8	2200.7	1974.0	1674.1	1395.1	1356.7	1049.8
15°	2741.3	2723.9	2703.0	2703.0	2654.1	2521.6	2287.9	1939.2	1590.4	1545.1	1161.4
17.5°	2922.7	2901.8	2898.3	2919.2	2905.3	2811.1	2591.4	2193.8	1792.7	1757.8	1276.5
20°	3125.0	3097.1	3097.1	3114.5	3111.0	3058.7	2866.9	2486.7	2029.8	1967.1	1409.0
22.5°	3411.0	3393.5	3379.6	3351.7	3330.8	3281.9	3114.5	2772.7	2256.5	2197.3	1545.1
25°	3794.6	3773.7	3710.9	3662.1	3571.4	3498.2	3355.2	3027.3	2486.7	2420.5	1677.6
27.5°	4167.8	4126.0	4066.7	4003.9	3902.7	3777.2	3599.3	3268.0	2727.4	2657.6	1813.6
30°	4561.9	4530.5	4457.3	4356.1	4230.6	4091.1	3878.3	3557.5	3002.9	2926.2	1960.1
32.5°	4875.8	4827.0	4760.7	4663.1	4534.0	4436.4	4206.2	3874.8	3320.3	3219.2	2113.5
35°	5126.9	5088.6	5001.4	4907.2	4809.5	4781.6	4530.5	4132.9	3574.9	3480.7	2277.5
37.5°	5287.4	5249.0	5175.8	5081.6	5043.2	5092.0	4928.1	4485.2	3916.7	3798.1	2465.8
40°	5412.9	5367.6	5308.3	5266.4	5252.5	5388.5	5371.1	4942.1	4366.6	4296.9	2723.9
42.5°	5503.6	5458.3	5419.9	5416.4	5507.1	5772.1	5967.5	5580.3	4994.4	4851.4	3055.2
45°	5388.5	5350.1	5371.1	5493.1	5712.9	6131.4	6689.4	6483.6	5751.2	5650.1	3585.4
47.5°	5067.6	5043.2	5137.4	5360.6	5768.7	6351.1	7387.0	7474.1	6832.4	6679.0	4272.4
50°	4565.4	4561.9	4711.9	5015.3	5594.3	6434.8	7739.2	8426.3	7941.5	7784.6	4830.5
52.5°	3885.3	3871.4	4091.1	4513.1	5182.7	6277.9	7805.5	8806.5	8583.2	8398.4	5182.7
55°	3114.5	3083.1	3344.7	3808.6	4575.9	5821.0	7627.6	8890.2	8890.2	8722.7	5444.3
57.5°	2190.3	2239.1	2455.3	3013.4	3826.0	5137.4	7188.2	8813.4	9200.6	9057.6	5796.6
60°	1381.1	1402.1	1639.2	2089.1	2901.8	4223.6	6403.4	8482.1	9448.2	9364.5	6079.1
62.5°	795.2	861.5	980.0	1321.8	2001.9	3173.8	5433.8	7885.7	9542.4	9507.5	6263.9
65°	484.8	491.8	547.6	746.4	1231.2	2165.9	4349.2	7055.6	9329.6	9361.0	6229.0
67.5°	362.7	362.7	380.2	470.8	701.0	1377.6	3208.7	6047.7	8649.5	8750.6	5901.2
70°	313.9	313.9	317.4	345.3	432.5	816.1	2120.5	4875.8	7414.9	7404.4	4875.8
72.5°	247.6	258.1	279.0	293.0	327.8	477.8	1241.6	3407.5	5151.3	5273.4	3138.9
75°	198.8	202.3	230.2	254.6	275.5	324.4	585.9	1893.8	2703.0	2703.0	1381.1
77.5°	153.5	160.4	177.9	202.3	230.2	230.2	244.1	732.4	1046.3	1011.4	408.1
80°	97.7	101.1	129.0	160.4	191.8	163.9	132.5	244.1	286.0	275.5	111.6
82.5°	59.3	62.8	83.7	129.0	129.0	90.7	83.7	101.1	90.7	83.7	45.3
85°	17.4	20.9	59.3	83.7	73.2	34.9	41.9	45.3	41.9	38.4	24.4
87.5°	3.5	3.5	17.4	20.9	17.4	17.4	14.0	17.4	17.4	17.4	10.5
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°	725.4	725.4	725.4	725.4	725.4	725.4	725.4	725.4	725.4	725.4	725.4
2.5°	735.9	722.0	694.1	673.1	655.7	638.2	624.3	620.8	613.8	613.8	610.3
5°	767.3	735.9	683.6	648.7	620.8	596.4	575.5	554.5	547.6	540.6	544.1
7.5°	816.1	767.3	694.1	641.7	592.9	537.1	491.8	453.4	425.5	418.5	408.1
10°	878.9	805.7	711.5	627.8	537.1	439.5	376.7	338.3	324.4	306.9	310.4
12.5°	941.7	851.0	725.4	589.4	442.9	345.3	293.0	268.6	258.1	254.6	258.1
15°	1014.9	899.8	718.5	519.7	355.7	279.0	247.6	237.2	230.2	230.2	226.7
17.5°	1088.2	941.7	694.1	429.0	286.0	237.2	223.2	212.7	205.8	202.3	202.3
20°	1168.4	980.0	638.2	341.8	237.2	216.2	202.3	188.3	181.4	181.4	181.4
22.5°	1252.1	1007.9	565.0	272.0	212.7	191.8	177.9	167.4	160.4	160.4	160.4
25°	1325.3	1021.9	477.8	226.7	195.3	174.4	160.4	150.0	146.5	143.0	143.0
27.5°	1395.1	1018.4	387.1	198.8	174.4	156.9	143.0	136.0	129.0	129.0	129.0
30°	1464.8	997.5	306.9	181.4	160.4	139.5	129.0	122.1	118.6	115.1	115.1
32.5°	1524.1	962.6	240.7	167.4	146.5	125.6	115.1	108.1	108.1	104.6	104.6
35°	1583.4	910.3	202.3	156.9	132.5	115.1	104.6	101.1	97.7	97.7	97.7
37.5°	1646.2	844.0	177.9	143.0	118.6	104.6	97.7	94.2	90.7	87.2	87.2
40°	1722.9	777.8	167.4	132.5	108.1	94.2	87.2	83.7	80.2	80.2	80.2
42.5°	1845.0	722.0	156.9	118.6	97.7	87.2	80.2	73.2	73.2	69.8	69.8
45°	2075.2	701.0	146.5	108.1	90.7	76.7	73.2	66.3	62.8	62.8	62.8
47.5°	2375.1	704.5	136.0	97.7	83.7	69.8	66.3	62.8	55.8	55.8	55.8
50°	2622.8	687.1	125.6	90.7	73.2	66.3	59.3	55.8	52.3	52.3	52.3
52.5°	2720.4	655.7	115.1	83.7	69.8	59.3	55.8	52.3	48.8	48.8	48.8
55°	2818.1	641.7	104.6	73.2	62.8	59.3	52.3	48.8	45.3	41.9	41.9
57.5°	2995.9	648.7	94.2	69.8	59.3	55.8	48.8	41.9	34.9	31.4	31.4
60°	3090.1	624.3	87.2	62.8	55.8	52.3	41.9	31.4	24.4	20.9	20.9
62.5°	3009.9	554.5	80.2	59.3	52.3	45.3	31.4	24.4	17.4	10.5	10.5
65°	2786.7	456.9	73.2	55.8	45.3	34.9	27.9	17.4	10.5	7.0	7.0
67.5°	2504.2	359.2	66.3	52.3	41.9	31.4	24.4	14.0	7.0	3.5	3.5
70°	2022.9	258.1	62.8	48.8	38.4	27.9	20.9	14.0	7.0	3.5	3.5
72.5°	1304.4	167.4	55.8	45.3	34.9	27.9	17.4	10.5	7.0	3.5	3.5
75°	603.4	111.6	52.3	41.9	34.9	24.4	17.4	14.0	7.0	3.5	3.5
77.5°	177.9	80.2	48.8	38.4	31.4	24.4	17.4	14.0	7.0	3.5	3.5
80°	73.2	55.8	38.4	34.9	31.4	24.4	17.4	14.0	7.0	3.5	3.5
82.5°	34.9	24.4	17.4	14.0	17.4	17.4	14.0	14.0	7.0	3.5	3.5
85°	17.4	10.5	7.0	7.0	7.0	3.5	3.5	7.0	7.0	3.5	3.5
87.5°	10.5	7.0	7.0	7.0	3.5	3.5	3.5	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)