

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: McGRAW-EDISON

Report Number: P458907

Luminaire Tested: **GALN-SA4B-735-U-T2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458907
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-11)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA4B-735-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15676 lumens
Efficiency: N/A
Efficacy: 95.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G3

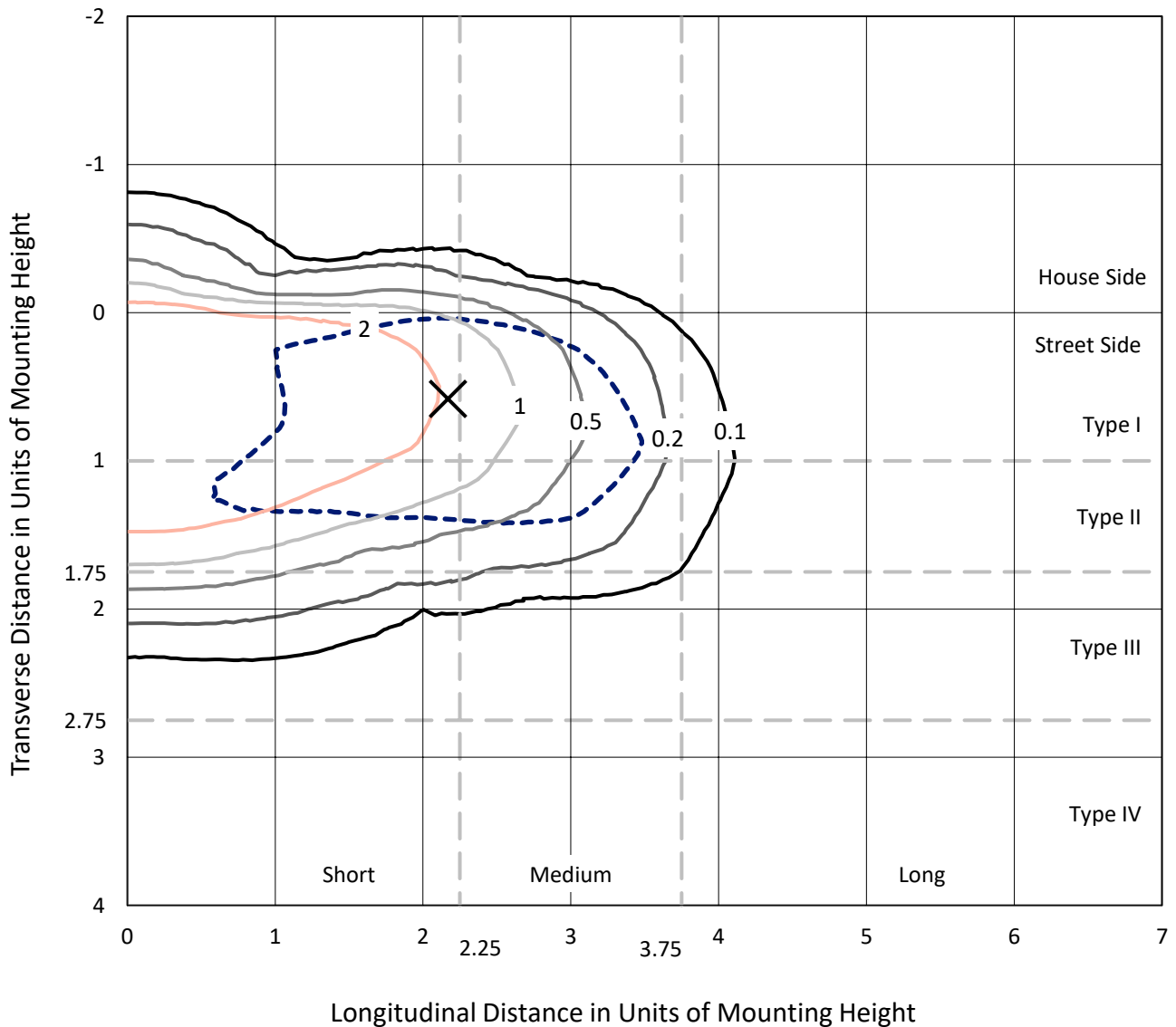
Input Watts (W): 164
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

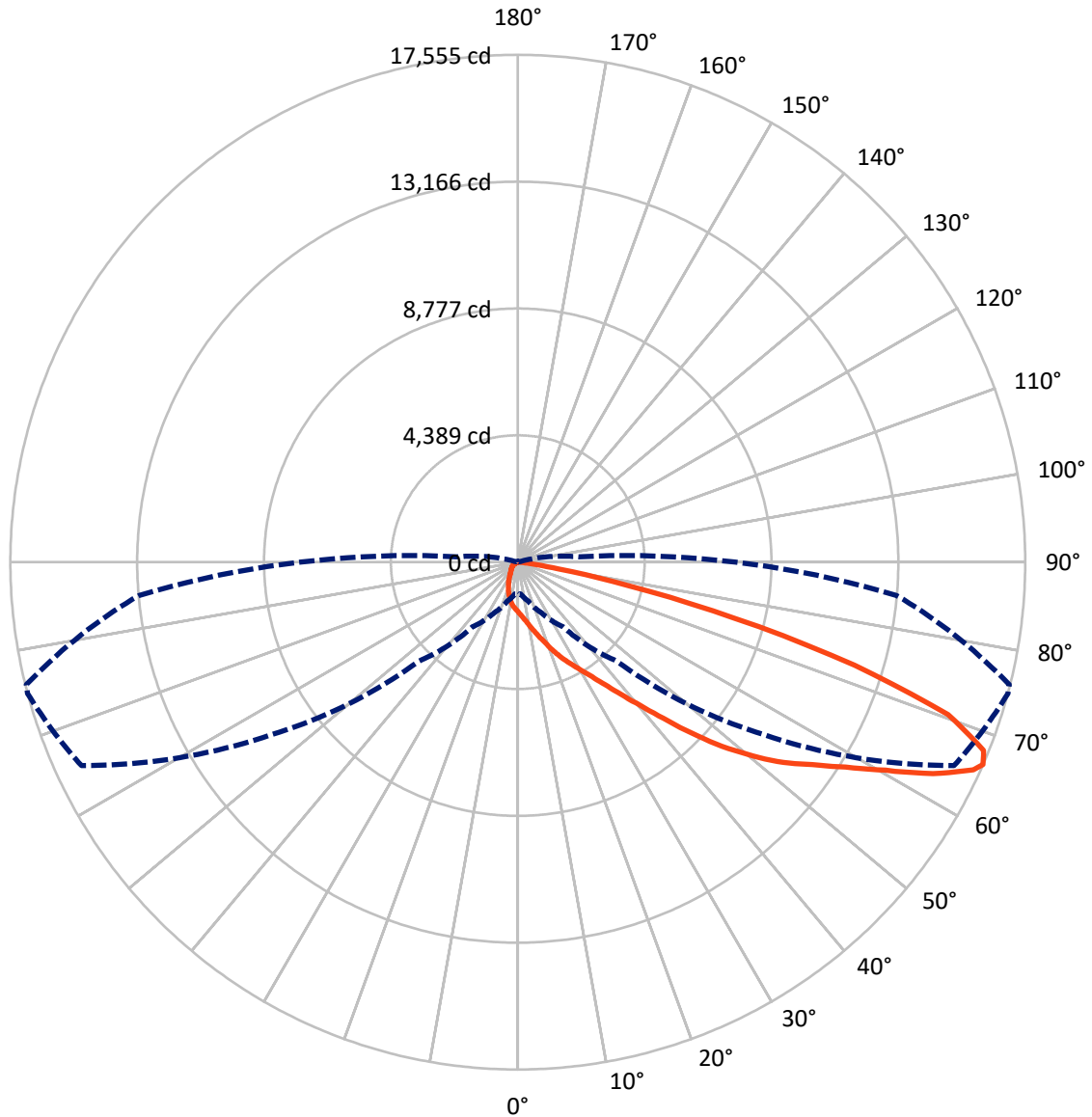
✕ Max cd
 - - - 1/2 Max cd



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 75-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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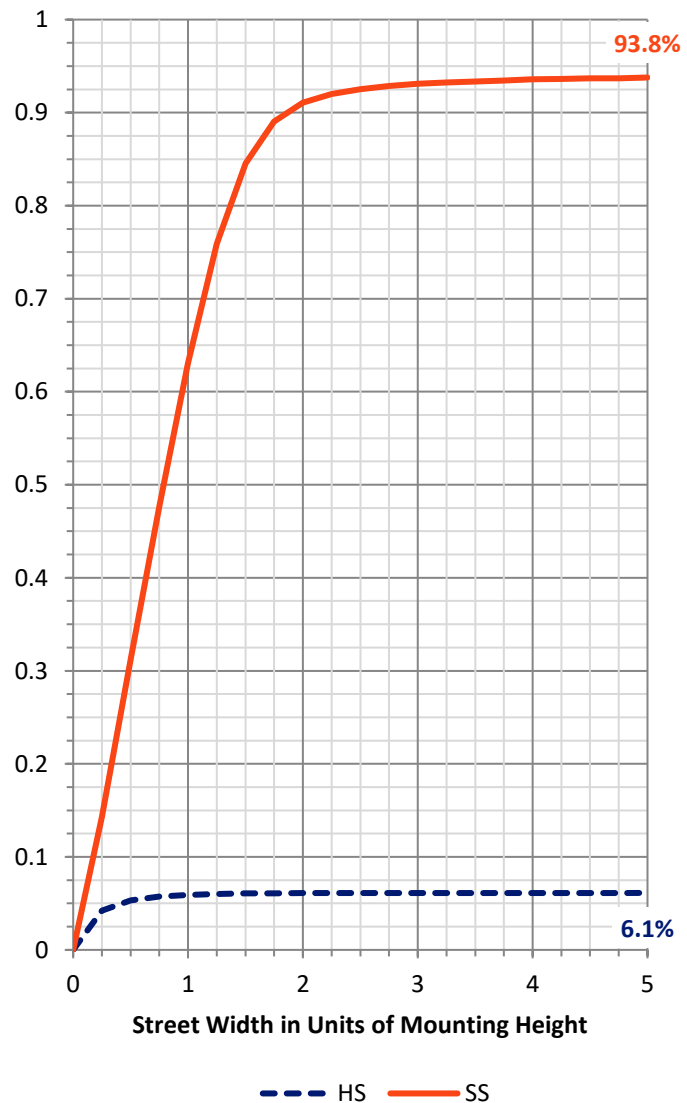
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	967.8	0.0	967.8
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	14708.2	0.0	14708.2
	% Fixture	93.8	0.0	93.8
Total	Lumens	15676.0	0.0	15676.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	165.4	1.1
10°-20°	486.6	3.1
20°-30°	840.3	5.4
30°-40°	1515.7	9.7
40°-50°	2738.2	17.5
50°-60°	4268.9	27.2
60°-70°	4055.3	25.9
70°-80°	1519.8	9.7
80°-90°	85.8	0.5
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°	15676.0	100.0
0°-180°	15676.0	100.0



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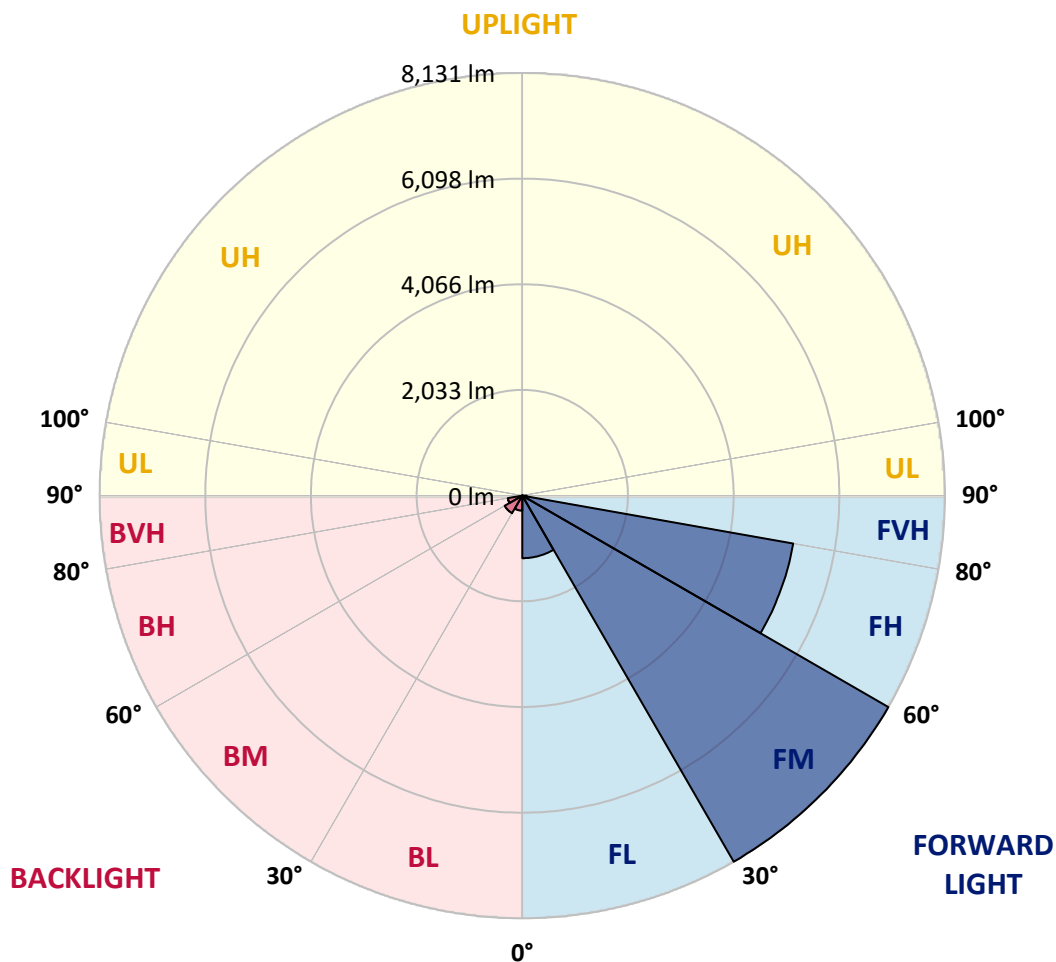
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1203.3	7.7			
FM (30°-60°)	8131.1	51.9			
FH (60°-80°)	5292.5	33.8			G3/7500
FVH (80°-90°)	81.3	0.5			G1/100
BL (0°-30°)	289.0	1.8	B1/500		
BM (30°-60°)	391.7	2.5	B1/1000		
BH (60°-80°)	282.6	1.8	B1/500		G1/500
BVH (80°-90°)	4.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1714.3	1714.3	1714.3	1714.3	1714.3	1714.3	1714.3	1714.3	1714.3	1714.3	1714.3
2.5°	2048.1	2022.6	2030.8	2019.2	1992.5	1953.1	1918.3	1868.5	1818.6	1810.5	1754.9
5°	2318.2	2311.3	2302.0	2268.4	2249.8	2189.6	2117.7	2031.9	1928.8	1910.2	1809.4
7.5°	2502.5	2499.0	2503.7	2486.3	2470.1	2415.6	2339.1	2222.0	2062.1	2051.6	1883.6
10°	2562.8	2572.1	2589.5	2617.3	2642.8	2625.4	2567.4	2421.4	2234.8	2204.6	1968.2
12.5°	2528.0	2538.5	2580.2	2654.4	2736.7	2784.2	2761.0	2654.4	2417.9	2393.6	2063.2
15°	2438.8	2451.5	2510.6	2625.4	2772.6	2907.1	2965.0	2888.5	2631.2	2591.8	2178.0
17.5°	2306.6	2325.2	2409.8	2561.6	2763.3	2995.1	3158.6	3133.1	2858.4	2821.3	2303.2
20°	2206.9	2220.9	2292.7	2466.6	2723.9	3043.8	3342.9	3414.7	3138.9	3075.1	2450.4
22.5°	2273.0	2277.7	2302.0	2406.3	2653.2	3056.6	3505.2	3708.0	3436.8	3380.0	2603.4
25°	2596.4	2550.0	2525.7	2502.5	2638.1	3045.0	3652.4	4014.0	3733.5	3673.2	2755.2
27.5°	3106.4	3085.6	2962.7	2798.1	2766.8	3060.1	3749.7	4303.8	4012.8	3947.9	2903.6
30°	3661.6	3625.7	3550.4	3309.3	3067.0	3166.7	3820.4	4585.4	4343.2	4257.4	3039.2
32.5°	4171.6	4194.8	4082.4	3834.3	3553.8	3393.9	3912.0	4892.6	4722.2	4615.6	3196.8
35°	4766.3	4812.6	4639.9	4402.3	4074.3	3804.2	4090.5	5239.2	5203.3	5068.8	3440.2
37.5°	5370.2	5398.0	5292.5	4958.7	4663.1	4325.8	4426.6	5666.9	5795.6	5680.8	3731.2
40°	5877.9	5916.1	5838.4	5541.7	5226.4	4929.7	4914.6	6132.9	6500.3	6382.1	4164.7
42.5°	6266.2	6295.1	6297.5	6087.7	5803.7	5669.2	5537.1	6727.5	7383.5	7246.8	4667.7
45°	6756.5	6798.2	6773.8	6631.3	6419.2	6394.8	6326.4	7446.1	8440.6	8267.9	5320.3
47.5°	7514.5	7542.3	7482.1	7314.0	7098.4	7136.6	7096.1	8251.7	9518.6	9370.3	5996.1
50°	8040.8	8087.1	8172.9	8240.1	8083.6	7942.2	7821.7	9004.0	10542.1	10408.8	6686.9
52.5°	8035.0	8111.5	8382.7	8721.2	9063.1	9020.2	8673.6	9835.1	11519.2	11354.7	7336.0
55°	7493.7	7642.0	8040.8	8641.2	9588.2	10059.9	9902.3	10797.1	12363.1	12251.8	8088.3
57.5°	6376.3	6466.7	7020.7	7859.9	9294.9	10549.1	11325.7	12101.1	13375.0	13322.8	9256.7
60°	4288.7	4329.3	5042.1	6079.5	7913.3	10061.1	12368.9	13678.7	14621.0	14595.5	10620.9
62.5°	2457.3	2474.7	2991.7	3866.8	5631.0	8526.4	12457.0	15624.8	16115.1	16129.0	12199.6
65°	1322.5	1331.8	1749.1	2269.5	3426.3	6077.2	11201.7	16691.2	17322.9	17349.6	13177.9
66°	1141.7	1097.7	1392.1	1934.6	2726.2	4837.0	10407.7	16653.0	17554.7	17525.8	13143.2
67.5°	868.2	907.6	1111.6	1487.1	2020.3	3439.1	8592.5	15912.3	17378.6	17288.1	12608.8
70°	621.3	637.5	791.7	1060.6	1375.9	1887.0	5490.7	13216.2	15795.2	15673.5	10984.9
72.5°	401.1	418.4	561.0	767.3	994.5	1030.4	3074.0	9548.8	12177.6	12160.2	8272.6
75°	286.3	302.5	370.9	549.4	747.6	637.5	1480.2	6435.4	7741.7	7689.5	5117.5
77.5°	207.5	215.6	248.0	359.3	534.4	456.7	686.2	3436.8	3854.0	4036.0	2261.4
80°	119.4	126.3	172.7	219.1	361.6	311.8	328.0	1379.3	1422.2	1353.8	707.1
82.5°	59.1	67.2	103.2	149.5	226.0	209.8	150.7	415.0	438.1	426.6	178.5
85°	13.9	17.4	58.0	98.5	110.1	93.9	73.0	121.7	150.7	147.2	68.4
87.5°	1.2	2.3	20.9	17.4	18.5	31.3	25.5	31.3	48.7	45.2	24.3
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°	1714.3	1714.3	1714.3	1714.3	1714.3	1714.3	1714.3	1714.3	1714.3	1714.3	1714.3
2.5°	1729.4	1707.4	1643.6	1581.0	1528.9	1474.4	1424.5	1395.6	1384.0	1371.2	1377.0
5°	1753.7	1700.4	1571.8	1460.5	1351.5	1258.8	1184.6	1137.1	1113.9	1110.4	1104.6
7.5°	1786.2	1694.6	1495.3	1321.4	1178.8	1075.7	991.0	922.7	901.8	883.2	868.2
10°	1825.6	1684.2	1400.2	1175.3	1023.5	893.7	782.4	701.3	659.5	647.9	656.1
12.5°	1867.3	1664.5	1300.5	1040.9	865.9	700.1	596.9	556.4	544.8	540.1	541.3
15°	1909.1	1640.1	1196.2	911.1	689.7	558.7	511.2	500.7	496.1	493.8	491.5
17.5°	1947.3	1600.7	1079.1	784.7	558.7	477.6	460.2	450.9	441.6	438.1	432.3
20°	1992.5	1555.5	973.7	643.3	472.9	432.3	411.5	394.1	380.2	370.9	369.8
22.5°	2035.4	1497.6	863.5	533.2	431.2	388.3	354.7	336.1	319.9	308.3	311.8
25°	2058.6	1426.9	765.0	464.8	392.9	344.3	307.2	284.0	266.6	260.8	259.6
27.5°	2058.6	1339.9	668.8	425.4	358.2	304.8	266.6	244.6	233.0	224.9	226.0
30°	2042.4	1243.7	579.6	395.3	328.0	270.1	234.1	214.4	205.2	199.4	198.2
32.5°	2029.6	1152.2	503.1	366.3	296.7	239.9	208.6	193.6	184.3	178.5	178.5
35°	2049.3	1073.3	443.9	337.3	267.8	216.8	188.9	175.0	165.8	161.1	160.0
37.5°	2101.5	1001.5	398.7	306.0	241.1	197.0	175.0	158.8	149.5	143.7	141.4
40°	2230.1	960.9	365.1	277.0	215.6	180.8	158.8	143.7	132.1	126.3	125.2
42.5°	2436.5	962.1	332.7	250.4	195.9	166.9	144.9	127.5	114.8	109.0	107.8
45°	2747.1	1006.1	307.2	224.9	178.5	151.8	129.8	111.3	99.7	93.9	93.9
47.5°	3119.2	1091.9	285.1	202.8	162.3	137.9	114.8	96.2	84.6	80.0	80.0
50°	3522.5	1203.2	263.1	179.7	148.4	122.9	98.5	83.5	74.2	70.7	70.7
52.5°	3934.0	1337.6	241.1	161.1	133.3	106.6	84.6	74.2	66.1	63.8	62.6
55°	4474.2	1509.2	217.9	141.4	117.1	91.6	75.3	64.9	55.6	52.2	51.0
57.5°	5305.3	1767.6	192.4	124.0	96.2	76.5	64.9	54.5	44.0	38.3	37.1
60°	6307.9	2082.9	165.8	109.0	77.7	62.6	52.2	41.7	32.5	25.5	24.3
62.5°	7246.8	2283.4	140.3	91.6	61.4	47.5	37.1	31.3	23.2	16.2	15.1
65°	7661.7	2216.2	115.9	74.2	48.7	33.6	24.3	22.0	13.9	7.0	5.8
66°	7523.8	2116.5	106.6	67.2	44.0	29.0	20.9	18.5	10.4	3.5	3.5
67.5°	7116.9	1881.2	92.7	58.0	38.3	23.2	16.2	13.9	5.8	1.2	0.0
70°	6098.1	1521.9	73.0	42.9	27.8	16.2	9.3	7.0	3.5	0.0	0.0
72.5°	4684.0	1133.6	58.0	32.5	19.7	9.3	4.6	2.3	3.5	0.0	0.0
75°	2870.0	647.9	45.2	24.3	12.8	5.8	3.5	0.0	3.5	1.2	0.0
77.5°	1273.9	290.9	30.1	16.2	9.3	4.6	2.3	0.0	2.3	1.2	0.0
80°	322.2	95.0	17.4	11.6	7.0	3.5	1.2	0.0	2.3	2.3	1.2
82.5°	88.1	34.8	12.8	9.3	5.8	3.5	1.2	0.0	2.3	2.3	2.3
85°	34.8	16.2	11.6	9.3	7.0	3.5	1.2	0.0	2.3	2.3	2.3
87.5°	16.2	11.6	11.6	10.4	8.1	3.5	1.2	0.0	2.3	1.2	2.3
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)