

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: P648571

Luminaire Tested: **GALN-SA7B-835-U-T4W-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P648571
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-27)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7B-835-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22449.4 lumens
Efficiency: N/A
Efficacy: 78.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

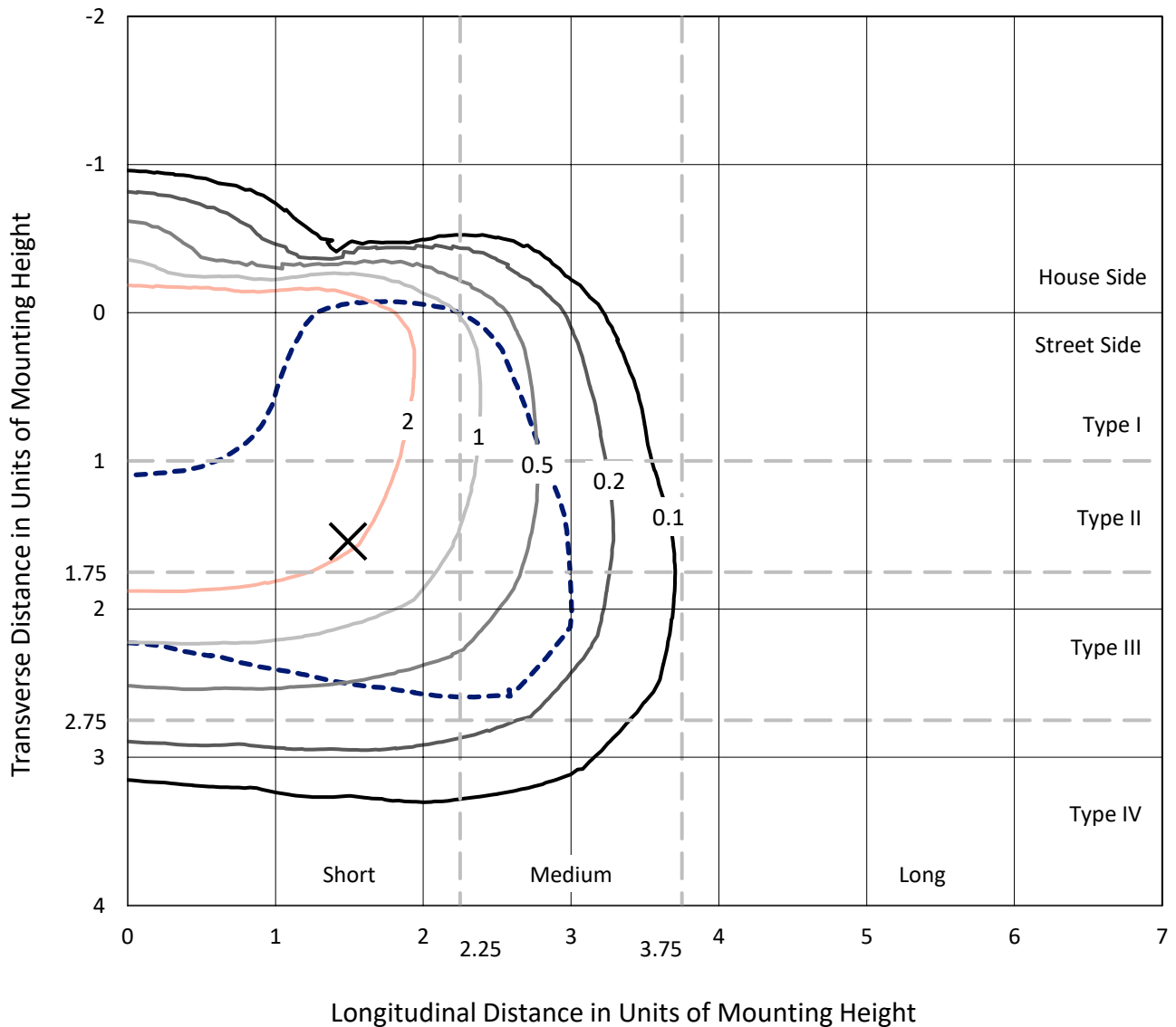
Input Watts (W): 286
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

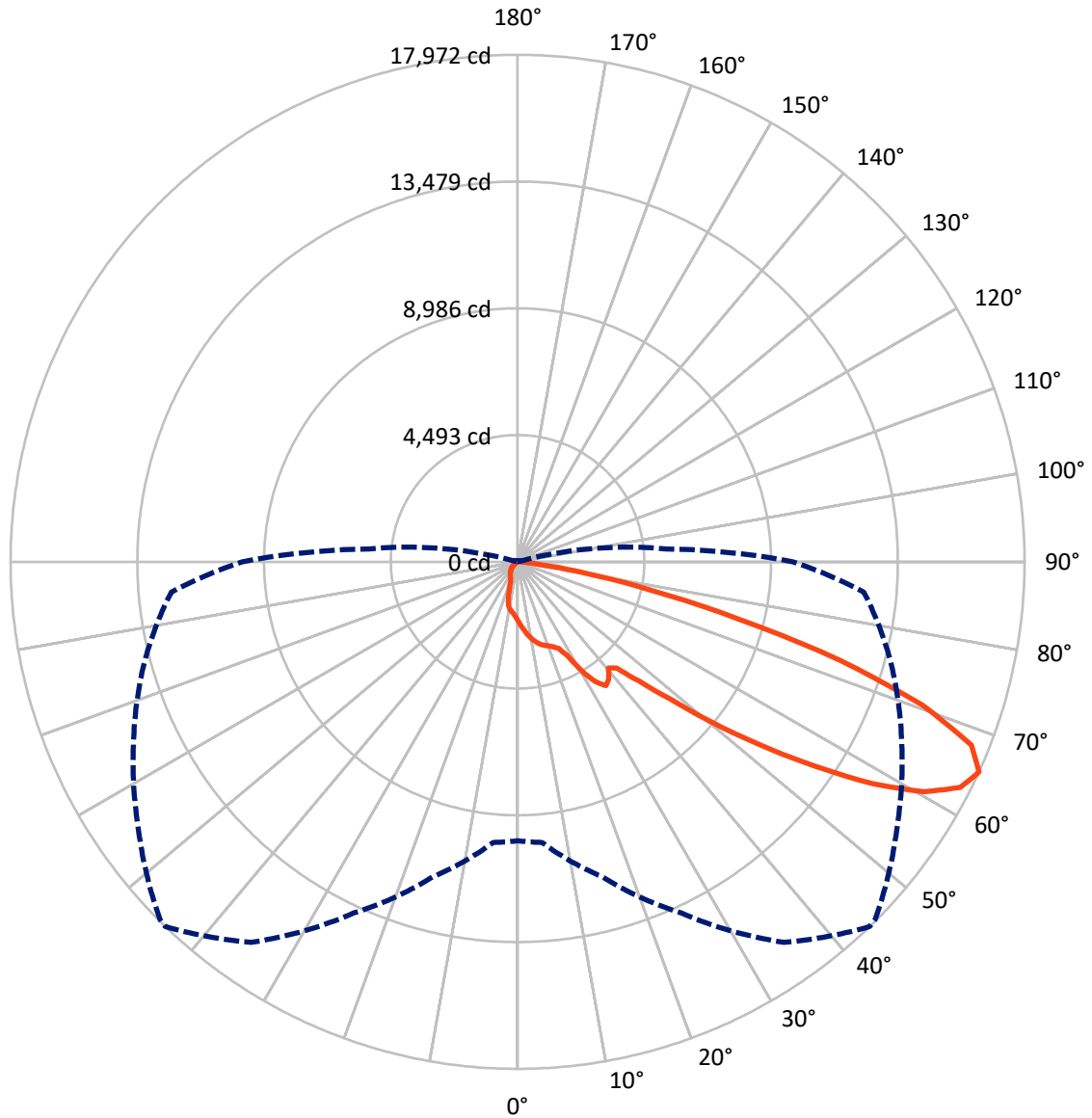
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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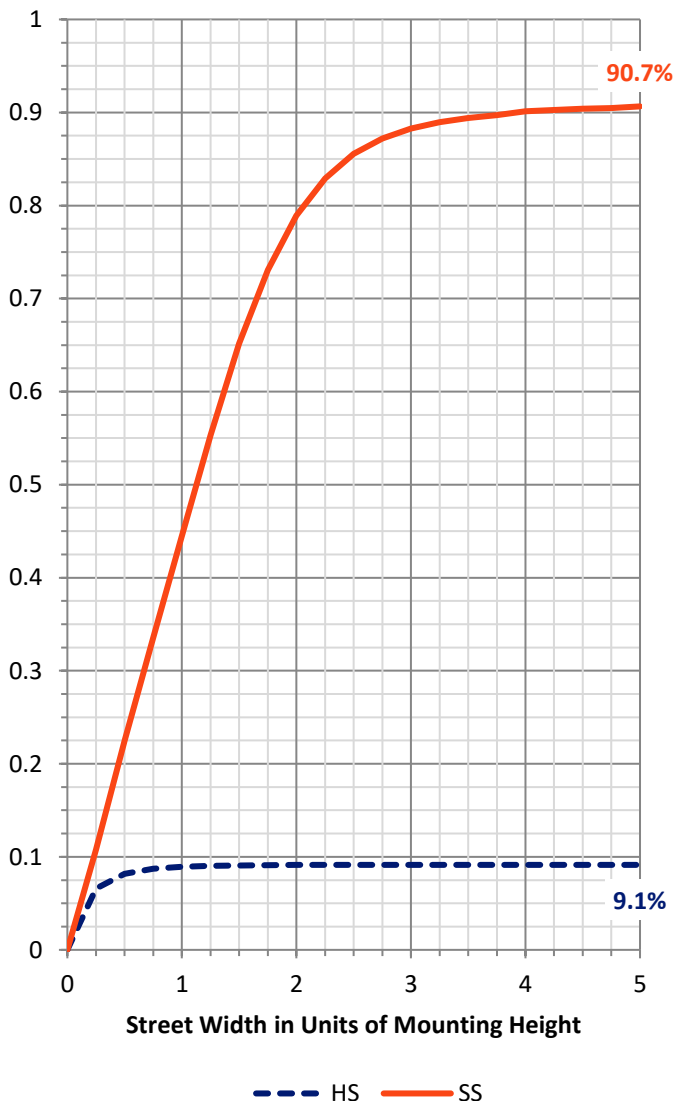
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2068.4	0.0	2068.4
	% Fixture	9.2	0.0	9.2
Street Side	Lumens	20381.0	0.0	20381.0
	% Fixture	90.8	0.0	90.8
Total	Lumens	22449.4	0.0	22449.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	207.8	0.9
10°-20°	625.4	2.8
20°-30°	1060.5	4.7
30°-40°	1763.3	7.9
40°-50°	3078.7	13.7
50°-60°	6014.8	26.8
60°-70°	6978.5	31.1
70°-80°	2541.2	11.3
80°-90°	179.1	0.8
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°	22449.4	100.0
0°-180°	22449.4	100.0

Coefficient of Utilization

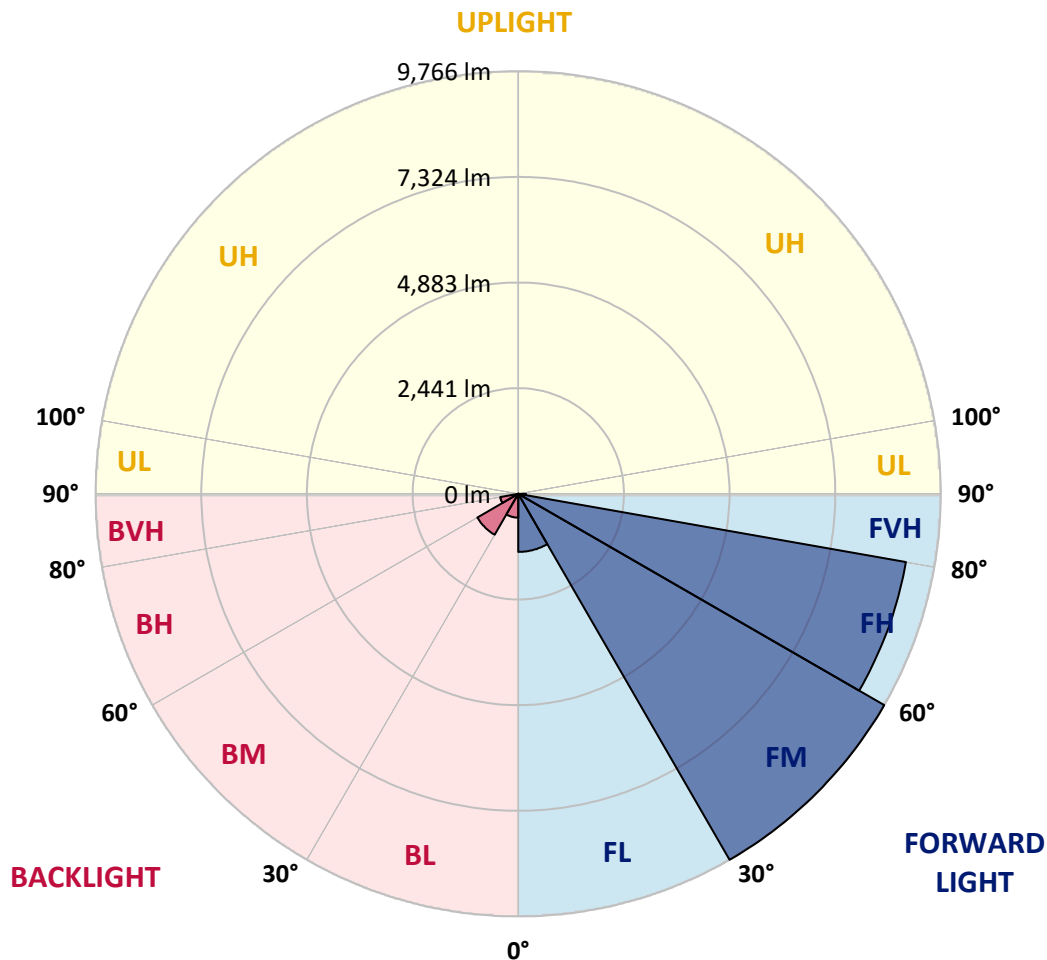


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1342.7	6.0			
FM (30°-60°)	9765.5	43.5			
FH (60°-80°)	9096.2	40.5			G4/12000
FVH (80°-90°)	176.6	0.8			G2/225
BL (0°-30°)	551.1	2.5	B2/1000		
BM (30°-60°)	1091.3	4.9	B2/2500		
BH (60°-80°)	423.6	1.9	B1/500		G1/500
BVH (80°-90°)	2.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	2089.4	2089.4	2089.4	2089.4	2089.4	2089.4	2089.4	2089.4	2089.4	2089.4	2089.4
2.5°	2351.8	2341.6	2336.4	2308.9	2288.3	2262.6	2262.6	2230.1	2192.3	2151.1	2113.4
5°	2614.3	2597.1	2574.8	2550.8	2502.8	2434.2	2434.2	2365.5	2286.7	2216.3	2139.1
7.5°	2866.5	2851.0	2813.2	2767.0	2688.0	2616.0	2610.8	2511.4	2417.0	2310.6	2200.9
10°	3087.8	3075.7	3043.1	2953.9	2871.6	2777.2	2775.5	2664.0	2554.2	2423.9	2288.3
12.5°	3242.1	3243.8	3201.0	3115.2	3008.8	2919.7	2912.8	2803.0	2688.0	2547.4	2381.0
15°	3351.9	3351.9	3307.3	3211.2	3115.2	3036.2	3029.4	2933.4	2815.0	2662.3	2482.2
17.5°	3382.8	3393.1	3345.1	3259.3	3182.1	3113.4	3111.7	3031.1	2936.8	2789.3	2585.2
20°	3370.8	3381.1	3343.3	3276.5	3223.2	3183.8	3178.7	3146.1	3058.6	2919.7	2694.9
22.5°	3345.1	3355.3	3327.9	3288.4	3262.7	3274.7	3266.1	3293.6	3247.3	3079.1	2825.3
25°	3350.2	3360.5	3339.9	3317.6	3339.9	3413.6	3436.0	3554.4	3513.2	3281.6	2965.9
27.5°	3511.4	3532.0	3502.8	3513.2	3592.1	3763.6	3806.5	4010.6	3828.8	3538.9	3185.5
30°	3870.0	3856.3	3801.4	3851.1	4125.5	4489.3	4477.2	4444.6	4159.8	3835.7	3446.3
32.5°	4195.9	4183.9	4180.4	4394.9	4892.3	5069.1	5060.5	4744.8	4456.6	4175.3	3703.6
35°	4328.0	4281.7	4271.3	4791.2	5623.1	5389.8	5336.6	4868.3	4816.9	4545.9	3966.1
37.5°	4726.0	4693.4	4533.8	4856.3	5331.5	5254.3	5213.1	5081.0	5201.2	4873.5	4262.8
40°	5545.9	5455.0	5310.9	4995.3	4918.1	4950.7	4991.9	5353.8	5655.7	5321.2	4659.1
42.5°	6564.9	6544.3	6276.7	5688.3	5110.2	5154.8	5208.0	5923.3	6309.3	5995.4	5305.8
45°	7788.0	7817.2	7431.1	6736.4	5978.2	6015.9	6093.1	6763.9	7194.4	7043.5	6323.0
47.5°	8899.6	8877.3	8746.9	8024.7	7324.8	7240.7	7366.0	7842.8	8419.2	8443.2	7585.5
50°	10018.0	10136.3	9942.5	9659.5	9139.7	8963.0	8916.7	9150.0	10028.3	9913.3	9102.0
52.5°	11625.4	11687.1	11323.4	11251.4	11369.7	10796.8	10750.4	10807.0	11592.7	11198.2	10237.6
55°	12635.7	12599.7	12464.2	13026.8	13495.2	12779.8	12721.5	12493.3	12891.3	12105.6	11330.2
57.5°	12954.7	13006.3	13321.9	14339.1	15447.3	14840.0	14733.6	14085.2	13827.9	12951.4	12335.5
60°	12812.4	12906.7	13587.8	15100.8	16637.7	16546.8	16455.9	15366.6	14500.4	13658.1	13040.6
62.5°	11798.6	11930.6	13020.0	14965.2	17040.9	17608.7	17495.4	16166.1	14948.1	14001.1	13164.0
65°	9887.6	9985.4	11549.9	13735.3	16467.9	17972.4	17931.2	16416.5	15018.4	13687.2	12318.4
67.5°	7048.6	7381.4	8830.9	11575.6	14773.1	17351.4	17421.7	16116.3	14357.9	12330.4	10201.6
70°	4430.9	4657.4	5696.9	8287.1	11843.2	15222.5	15454.1	14742.2	12460.7	9611.4	6829.0
72.5°	2113.4	2281.5	3022.5	5245.7	8359.2	11977.0	12160.5	12102.2	9635.4	6055.4	3523.4
75°	941.8	1005.2	1442.7	2677.8	5396.7	8050.4	8525.6	8604.5	6021.1	2962.5	1370.6
77.5°	480.3	482.0	675.9	1296.9	2694.9	4803.2	4897.5	5173.7	3264.4	1305.4	476.8
80°	255.6	272.7	358.5	612.4	1398.0	2365.5	2353.5	2586.9	1447.8	639.9	159.5
82.5°	114.9	126.9	202.4	320.8	682.7	897.2	967.5	1058.4	621.0	408.3	70.3
85°	34.3	41.2	99.5	161.2	247.0	259.0	289.9	374.0	351.6	289.9	36.0
87.5°	5.2	5.2	41.2	44.6	36.0	46.4	48.0	53.2	113.2	106.3	18.9
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°	2089.4	2089.4	2089.4	2089.4	2089.4	2089.4	2089.4	2089.4	2089.4	2089.4	2089.4
2.5°	2092.8	2080.8	2037.9	2001.9	1971.0	1952.1	1929.9	1916.1	1909.3	1904.1	1905.8
5°	2101.4	2072.2	1998.5	1940.1	1895.6	1847.5	1814.9	1796.0	1787.4	1773.7	1773.7
7.5°	2149.4	2103.1	2000.2	1911.0	1833.8	1768.6	1706.9	1684.5	1669.1	1665.7	1662.2
10°	2218.0	2159.7	2019.0	1895.6	1785.7	1696.5	1609.1	1531.9	1471.8	1435.8	1430.6
12.5°	2303.8	2219.7	2048.2	1885.2	1744.6	1586.7	1355.1	1199.1	1094.4	1061.8	1067.0
15°	2382.7	2291.8	2077.4	1876.7	1669.1	1315.8	1053.3	874.8	821.7	816.5	818.2
17.5°	2477.0	2369.0	2111.7	1864.6	1461.5	1005.2	782.2	734.2	744.5	761.6	759.9
20°	2574.8	2451.3	2152.9	1792.6	1166.5	756.5	691.3	696.5	711.9	727.3	730.8
22.5°	2679.5	2545.7	2200.9	1619.3	890.3	658.7	655.3	662.2	677.6	694.8	698.2
25°	2823.6	2664.0	2236.9	1392.9	674.2	608.9	615.8	627.8	641.6	660.5	663.8
27.5°	3008.8	2823.6	2255.7	1097.8	583.3	564.4	566.1	583.3	600.4	617.6	617.6
30°	3249.0	3014.0	2218.0	830.3	538.6	521.5	514.6	524.9	547.2	564.4	566.1
32.5°	3463.4	3194.1	2118.6	634.7	506.1	482.0	464.9	466.6	475.2	485.5	487.2
35°	3677.8	3369.1	1948.7	533.5	471.8	444.3	418.6	404.8	398.0	392.8	398.0
37.5°	3952.3	3586.9	1722.3	485.5	442.6	408.3	372.2	343.1	319.1	303.6	307.1
40°	4305.7	3888.8	1454.7	454.6	415.1	374.0	326.0	288.2	247.0	233.3	226.4
42.5°	4888.9	4346.8	1173.3	428.8	387.7	337.9	277.9	226.4	188.7	175.0	178.4
45°	5810.1	4924.9	904.1	401.4	360.3	298.5	233.3	178.4	147.5	140.6	144.1
47.5°	7031.5	5672.8	696.5	370.5	326.0	255.6	183.5	140.6	121.8	120.1	118.4
50°	8180.8	6369.3	581.5	336.2	284.8	212.7	151.0	118.4	106.3	104.6	104.6
52.5°	9220.3	6868.5	473.5	296.8	240.1	175.0	126.9	104.6	94.4	89.2	89.2
55°	10144.9	7194.4	384.2	248.8	188.7	139.0	109.8	94.4	82.4	75.5	73.8
57.5°	10843.1	7233.9	288.2	199.0	140.6	108.1	94.4	82.4	68.6	60.1	56.6
60°	11141.6	6892.5	212.7	151.0	104.6	85.7	75.5	66.9	51.4	42.9	41.2
62.5°	10841.4	6228.7	157.9	114.9	80.6	63.5	53.2	49.7	36.0	25.8	24.0
65°	9765.8	5269.7	125.2	87.5	60.1	46.4	34.3	32.6	22.3	12.0	10.3
67.5°	7824.0	4127.3	99.5	65.2	42.9	30.9	22.3	20.6	12.0	3.4	3.4
70°	5087.9	2638.3	80.6	48.0	27.5	20.6	13.7	10.3	6.9	1.7	0.0
72.5°	2516.5	1233.4	65.2	37.7	18.9	10.3	5.2	3.4	5.2	0.0	0.0
75°	976.1	439.1	48.0	25.8	10.3	5.2	3.4	0.0	1.7	0.0	0.0
77.5°	324.2	145.8	29.1	13.7	6.9	3.4	0.0	0.0	0.0	0.0	0.0
80°	120.1	56.6	15.4	8.6	3.4	1.7	0.0	0.0	0.0	0.0	0.0
82.5°	48.0	22.3	10.3	6.9	3.4	0.0	0.0	0.0	0.0	0.0	0.0
85°	24.0	13.7	6.9	5.2	3.4	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	17.1	10.3	6.9	5.2	3.4	1.7	0.0	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)