

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: P648388

Luminaire Tested: **GALN-SA4B-835-U-T2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P648388
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-13)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4B-835-U-T2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10396.7 lumens
Efficiency: N/A
Efficacy: 63.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

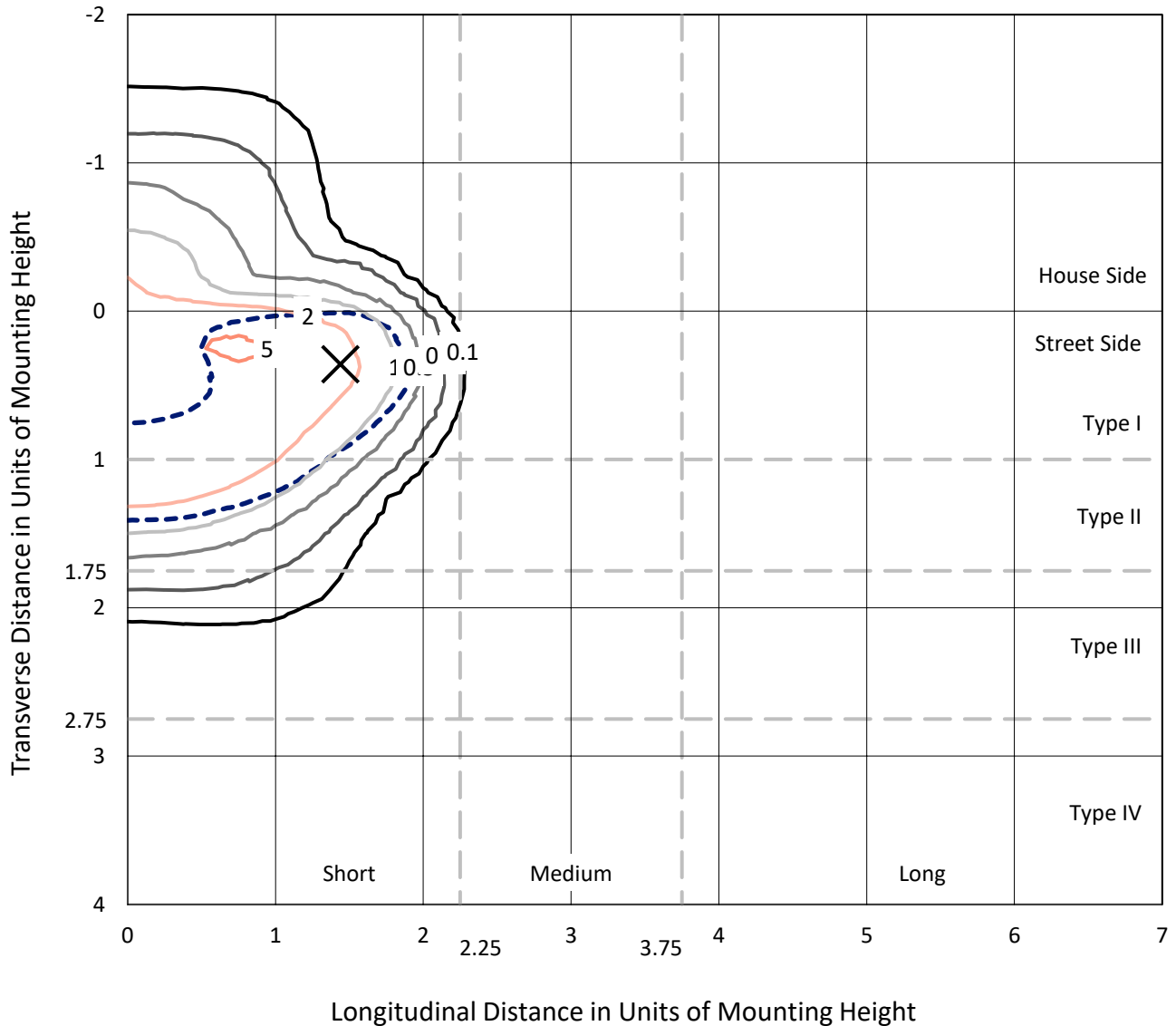
Input Watts (W): 164
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

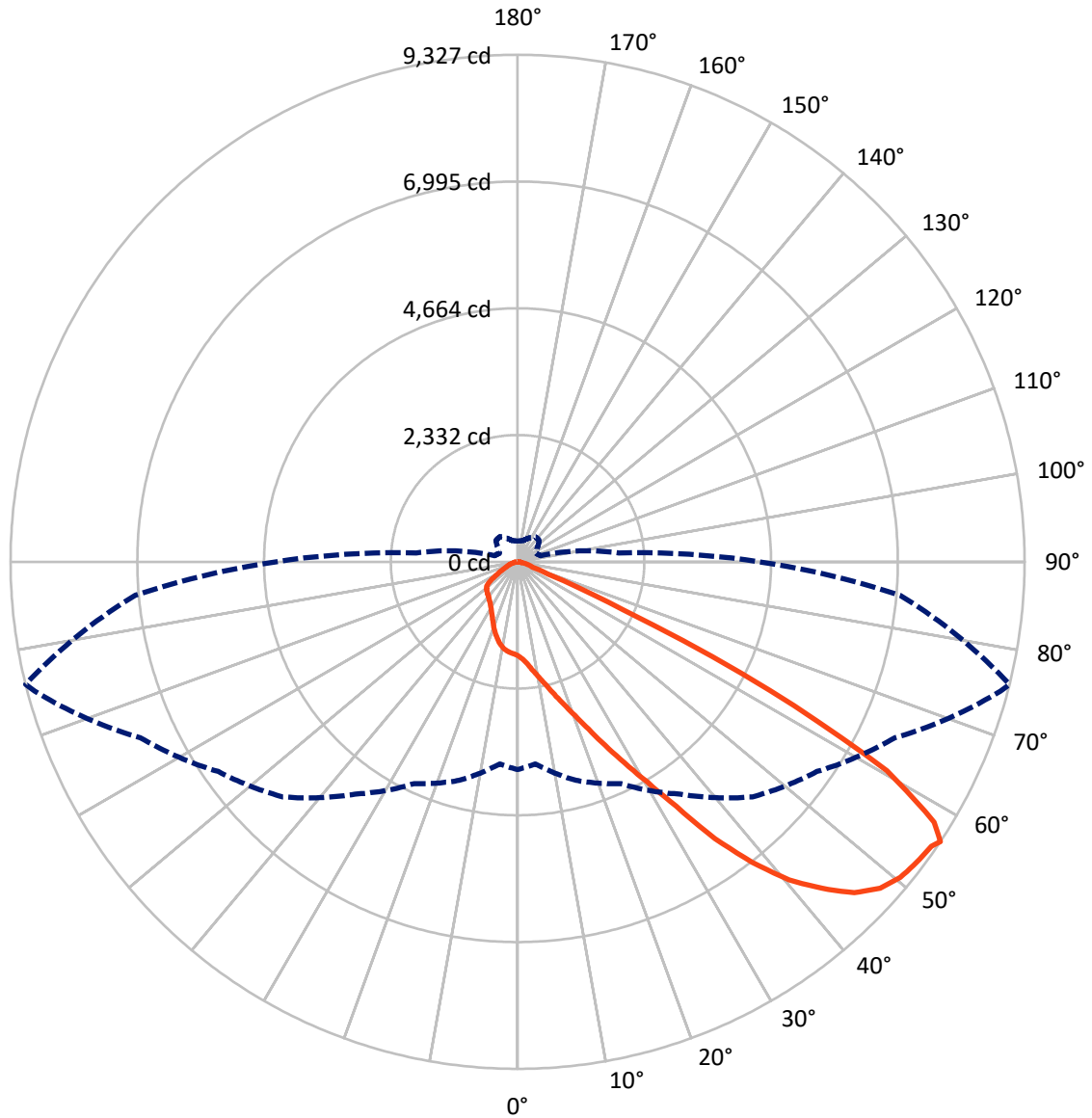
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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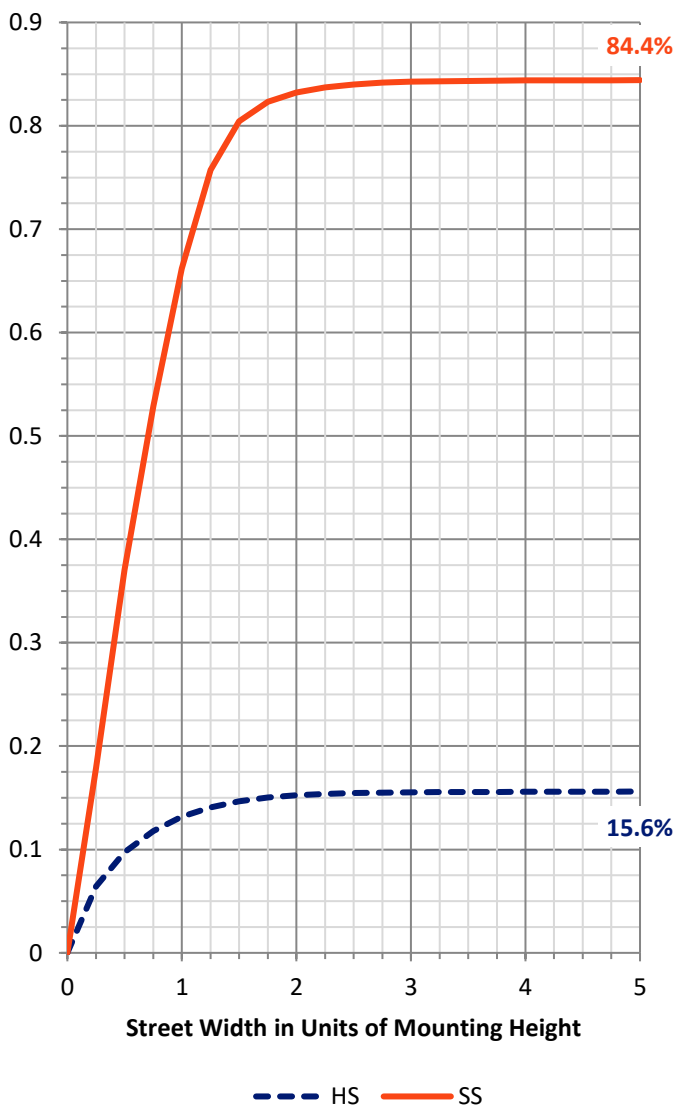
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1633.3	0.0	1633.3
	% Fixture	15.7	0.0	15.7
Street Side	Lumens	8763.4	0.0	8763.4
	% Fixture	84.3	0.0	84.3
Total	Lumens	10396.7	0.0	10396.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	174.3	1.7
10°-20°	560.1	5.4
20°-30°	1015.5	9.8
30°-40°	1751.3	16.8
40°-50°	2845.1	27.4
50°-60°	2998.8	28.8
60°-70°	916.3	8.8
70°-80°	117.5	1.1
80°-90°	17.8	0.2
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°	10396.7	100.0
0°-180°	10396.7	100.0

Coefficient of Utilization

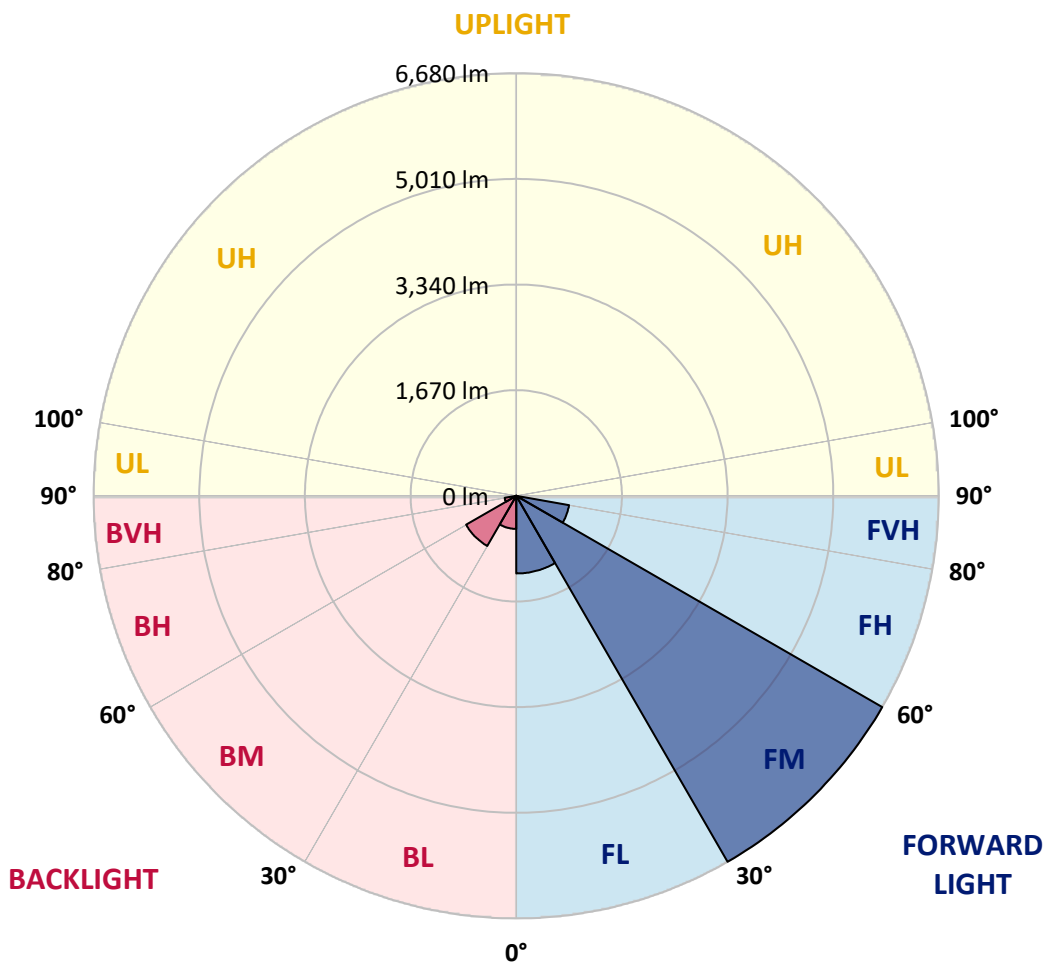


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1227.4	11.8			
FM (30°-60°)	6679.9	64.2			
FH (60°-80°)	847.4	8.2			G1/1800
FVH (80°-90°)	8.7	0.1			G0/10
BL (0°-30°)	522.5	5.0	B2/1000		
BM (30°-60°)	915.4	8.8	B1/1000		
BH (60°-80°)	186.3	1.8	B1/500		G1/500
BVH (80°-90°)	9.1	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1730.5	1730.5	1730.5	1730.5	1730.5	1730.5	1730.5	1730.5	1730.5	1730.5	1730.5
2.5°	1993.1	1947.1	1949.0	1945.2	1939.4	1918.4	1855.1	1845.5	1803.4	1791.9	1753.5
5°	2232.6	2192.4	2215.4	2180.9	2148.3	2129.1	2025.7	1977.8	1910.7	1885.8	1832.1
7.5°	2382.1	2362.9	2355.3	2357.2	2326.5	2278.6	2232.6	2127.3	2037.2	2018.0	1905.0
10°	2454.9	2443.4	2454.9	2449.2	2462.6	2468.4	2387.9	2324.6	2192.4	2159.8	1983.5
12.5°	2472.2	2495.2	2504.8	2529.7	2562.3	2617.9	2612.1	2525.9	2349.5	2328.5	2104.2
15°	2514.4	2533.6	2523.9	2564.2	2625.6	2719.4	2769.2	2755.8	2566.1	2527.8	2244.2
17.5°	2552.7	2518.2	2550.8	2631.3	2692.6	2836.3	2957.1	3012.7	2801.8	2757.7	2372.6
20°	2604.4	2594.9	2589.1	2629.3	2738.6	2930.2	3169.8	3271.4	3066.3	3020.3	2556.5
22.5°	2761.6	2763.5	2759.7	2700.3	2778.9	2995.4	3355.7	3606.7	3382.5	3344.2	2765.4
25°	2968.6	2943.6	2924.5	2876.6	2867.0	3054.8	3543.5	4016.9	3762.0	3735.1	2991.5
27.5°	3187.0	3187.0	3129.6	3085.5	3024.1	3202.4	3716.0	4415.5	4220.0	4183.6	3188.9
30°	3424.7	3438.1	3430.4	3336.5	3298.2	3363.4	3892.3	4925.2	4745.1	4699.1	3514.7
32.5°	3775.4	3746.7	3779.2	3700.6	3587.5	3645.1	4170.2	5381.3	5427.4	5362.2	3942.1
35°	4239.2	4221.9	4200.8	4072.5	3938.3	3984.3	4563.0	5942.9	6284.0	6251.4	4373.3
37.5°	4655.0	4645.5	4628.2	4540.1	4384.8	4440.4	5009.6	6527.4	7119.6	7012.2	4982.7
40°	5092.0	5143.7	5088.2	5009.6	4867.8	4990.4	5534.6	6874.3	7822.9	7692.6	5448.4
42.5°	5684.2	5643.9	5668.8	5525.1	5448.4	5582.6	6061.7	7221.1	8369.1	8213.8	5942.9
45°	6314.7	6316.5	6249.5	6203.5	6004.2	6149.8	6385.6	7412.7	8804.1	8683.4	6316.5
47.5°	6719.0	6717.1	6789.9	6862.8	6657.7	6513.9	6605.9	7594.9	9028.3	8972.8	6452.6
50°	6655.8	6674.9	6768.9	7041.0	7148.3	6954.8	6813.0	7541.2	9129.9	9124.1	6569.5
52.5°	5789.6	5852.8	6009.9	6402.8	6943.3	7182.8	7029.5	7640.8	9179.7	9189.3	6743.9
55°	4407.8	4442.3	4741.3	5218.5	5816.4	6636.6	6943.3	7719.4	9218.0	9235.3	6954.8
56°	3823.3	3731.3	4162.5	4501.7	5216.5	6113.4	6724.8	7658.1	9195.1	9327.3	7060.2
57.5°	2886.1	2824.8	3173.7	3597.2	4285.1	5231.8	6046.3	7368.7	9039.8	9037.9	6908.7
60°	1755.5	1694.1	1962.4	2211.6	2596.7	3221.5	4085.9	5868.1	7642.8	7803.7	5594.1
62.5°	1044.4	1082.8	1347.2	1498.7	1623.2	1688.4	2113.9	3488.0	5099.6	5214.6	3470.6
65°	695.7	709.1	908.4	1157.5	1213.1	965.9	860.5	1412.4	2211.6	2140.6	1431.6
67.5°	429.3	459.9	609.4	870.1	964.0	705.2	408.2	527.0	609.4	609.4	414.0
70°	260.7	275.9	406.3	592.2	661.2	454.2	297.1	297.1	293.2	287.4	247.2
72.5°	124.6	134.1	206.9	304.7	310.5	239.5	230.0	251.0	245.3	243.4	205.1
75°	53.6	57.5	72.8	95.8	109.2	101.6	139.9	180.2	185.9	180.2	147.6
77.5°	17.2	19.2	26.9	34.5	36.4	44.1	59.4	74.8	86.2	80.5	72.8
80°	1.9	3.8	7.7	17.2	26.9	34.5	44.1	49.8	55.6	55.6	51.8
82.5°	1.9	1.9	7.7	15.3	24.9	32.6	42.1	47.9	55.6	57.5	53.6
85°	0.0	1.9	5.7	13.4	21.1	21.1	19.2	19.2	13.4	13.4	13.4
87.5°	0.0	0.0	1.9	1.9	1.9	3.8	3.8	3.8	3.8	3.8	3.8
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°	1730.5	1730.5	1730.5	1730.5	1730.5	1730.5	1730.5	1730.5	1730.5	1730.5	1730.5
2.5°	1745.9	1742.0	1690.3	1657.7	1640.5	1606.0	1584.9	1569.5	1558.1	1544.6	1546.6
5°	1768.9	1755.5	1669.2	1609.8	1538.9	1500.5	1468.0	1441.2	1423.9	1420.0	1412.4
7.5°	1834.0	1763.2	1632.8	1525.5	1435.4	1397.1	1368.4	1351.1	1358.7	1341.5	1354.9
10°	1883.8	1778.4	1588.7	1433.5	1343.4	1314.7	1299.3	1312.8	1332.0	1324.3	1314.7
12.5°	1945.2	1793.8	1517.8	1345.4	1261.0	1240.0	1266.7	1291.7	1330.0	1345.4	1326.2
15°	2014.2	1811.0	1427.7	1243.8	1190.1	1207.4	1253.3	1297.4	1335.7	1354.9	1366.4
17.5°	2098.5	1805.3	1339.6	1163.3	1123.1	1172.9	1228.4	1268.7	1326.2	1354.9	1347.2
20°	2177.1	1786.1	1241.8	1082.8	1084.7	1130.7	1176.7	1241.8	1272.5	1310.8	1297.4
22.5°	2251.8	1751.6	1140.3	1027.2	1027.2	1098.1	1121.1	1163.3	1190.1	1209.3	1207.4
25°	2357.2	1686.4	1056.0	973.6	996.5	1042.6	1061.7	1075.1	1063.6	1079.0	1080.9
27.5°	2431.9	1619.4	987.0	925.7	967.8	1002.3	996.5	988.9	962.1	940.9	954.4
30°	2512.4	1540.8	927.5	893.1	916.0	946.7	923.7	900.8	858.6	824.0	826.0
32.5°	2627.4	1504.4	875.8	854.7	885.4	889.3	864.3	829.8	787.6	755.0	753.2
35°	2842.1	1481.4	831.7	829.8	835.5	837.5	812.6	770.4	753.2	726.3	735.9
37.5°	3056.8	1469.9	801.1	793.4	791.5	793.4	764.7	724.4	757.0	755.0	758.9
40°	3330.8	1521.7	757.0	747.4	749.3	749.3	712.9	701.4	758.9	764.7	766.6
42.5°	3608.6	1586.8	728.3	697.6	705.2	705.2	686.1	672.7	712.9	674.6	668.8
45°	3850.1	1682.7	697.6	647.8	666.9	676.5	670.7	647.8	622.9	557.7	557.7
47.5°	3928.7	1766.9	661.2	599.9	615.2	657.3	640.1	592.2	548.1	494.5	490.6
50°	4066.7	1858.9	632.4	544.3	576.8	628.6	611.4	563.4	513.6	475.3	477.2
52.5°	4208.5	1964.3	578.8	479.1	519.4	605.6	605.6	551.9	475.3	448.4	444.6
55°	4421.2	1960.5	483.0	392.8	463.8	571.1	580.7	494.5	425.5	404.3	404.3
56°	4451.9	1872.4	435.0	367.9	438.9	561.5	563.4	479.1	406.3	383.3	383.3
57.5°	4221.9	1690.3	381.4	337.3	408.2	544.3	546.2	465.7	391.0	358.4	354.5
60°	3248.4	1144.1	318.1	300.9	369.9	490.6	500.2	423.5	343.0	318.1	316.2
62.5°	1834.0	634.3	279.8	272.2	318.1	417.8	446.5	369.9	291.3	277.9	281.7
65°	837.5	348.8	235.7	220.4	256.8	322.0	360.3	304.7	239.5	224.3	224.3
67.5°	306.6	237.6	201.2	174.4	180.2	208.9	233.8	197.4	159.0	136.1	141.8
70°	218.5	199.3	176.3	151.4	139.9	136.1	134.1	111.2	78.5	61.3	65.1
72.5°	176.3	164.8	147.6	128.4	109.2	92.0	78.5	57.5	36.4	24.9	23.0
75°	126.5	120.7	107.3	92.0	76.7	65.1	53.6	36.4	19.2	9.6	9.6
77.5°	65.1	65.1	63.3	57.5	47.9	38.4	30.7	21.1	11.5	3.8	3.8
80°	49.8	53.6	55.6	49.8	44.1	34.5	24.9	15.3	7.7	1.9	1.9
82.5°	47.9	55.6	59.4	51.8	44.1	32.6	24.9	15.3	7.7	1.9	1.9
85°	11.5	11.5	17.2	19.2	24.9	26.9	21.1	13.4	5.7	1.9	1.9
87.5°	3.8	3.8	3.8	3.8	3.8	3.8	1.9	1.9	1.9	1.9	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)