

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: P646848

Luminaire Tested: **GALN-SA3C-835-U-T2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P646848
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-SA3C-835-U-T2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3500K, 1050mA 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: 9693.6 lumens
Efficiency: N/A
Efficacy: 60.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

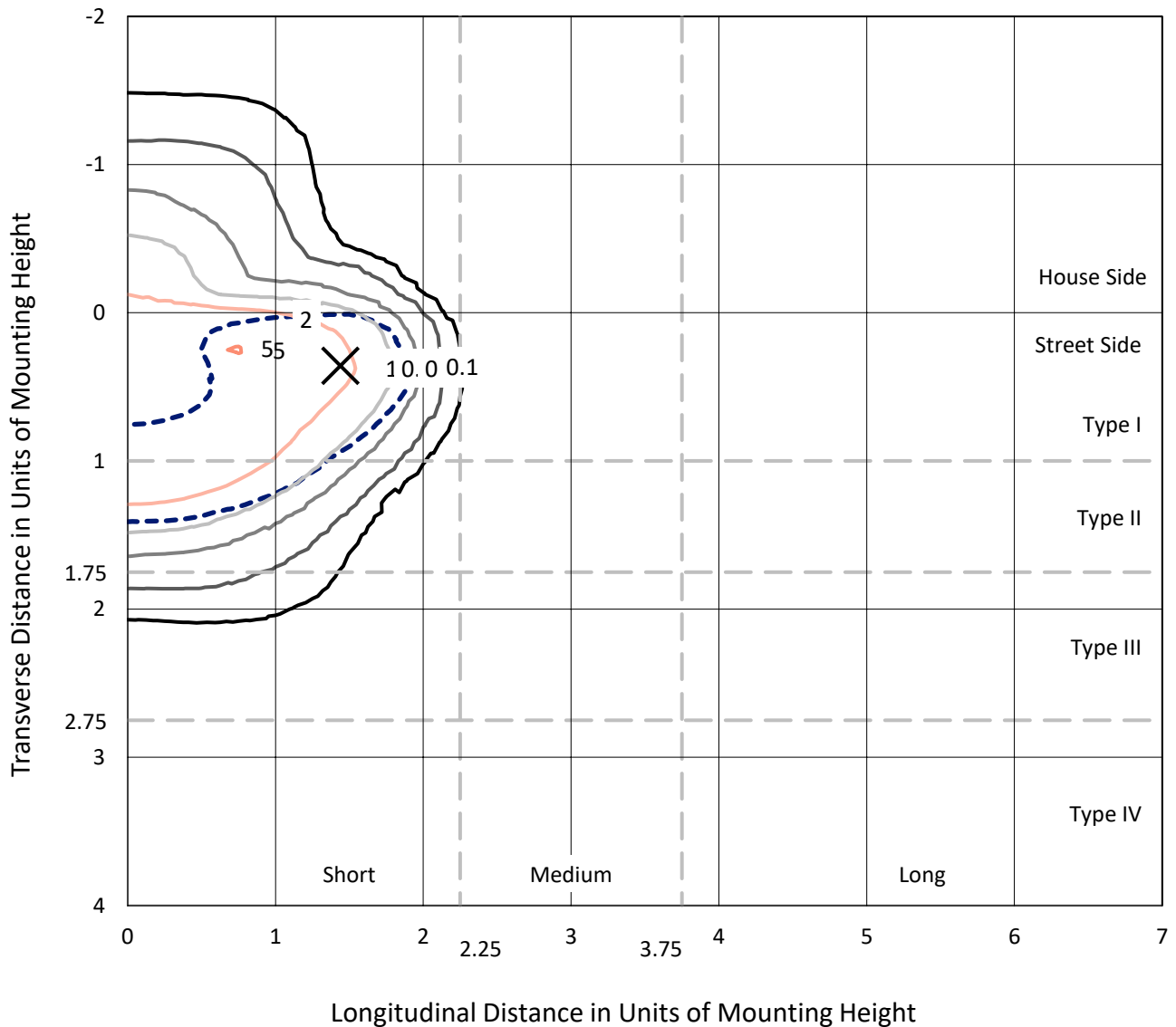
Input Watts (W): 160
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

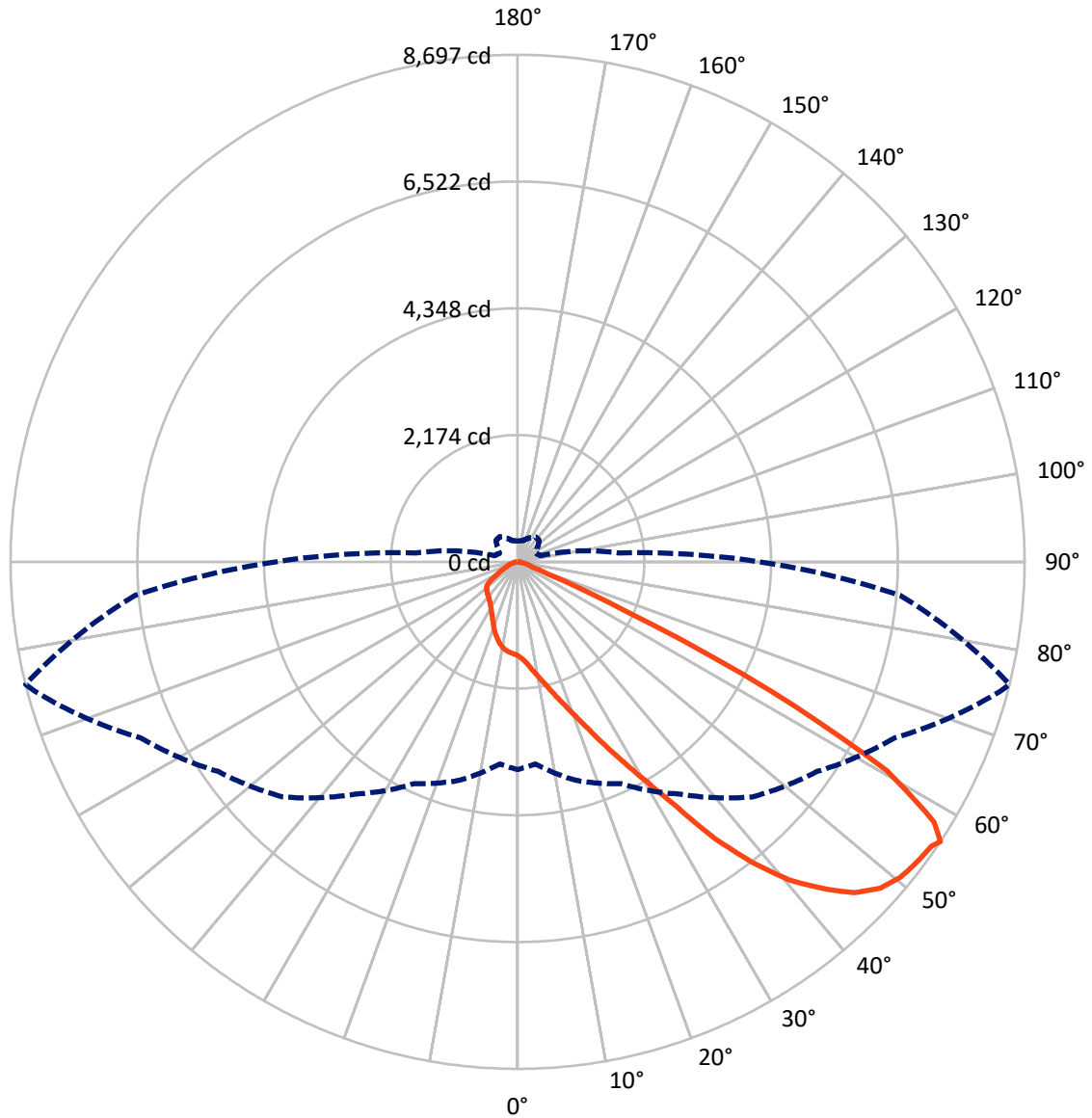
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 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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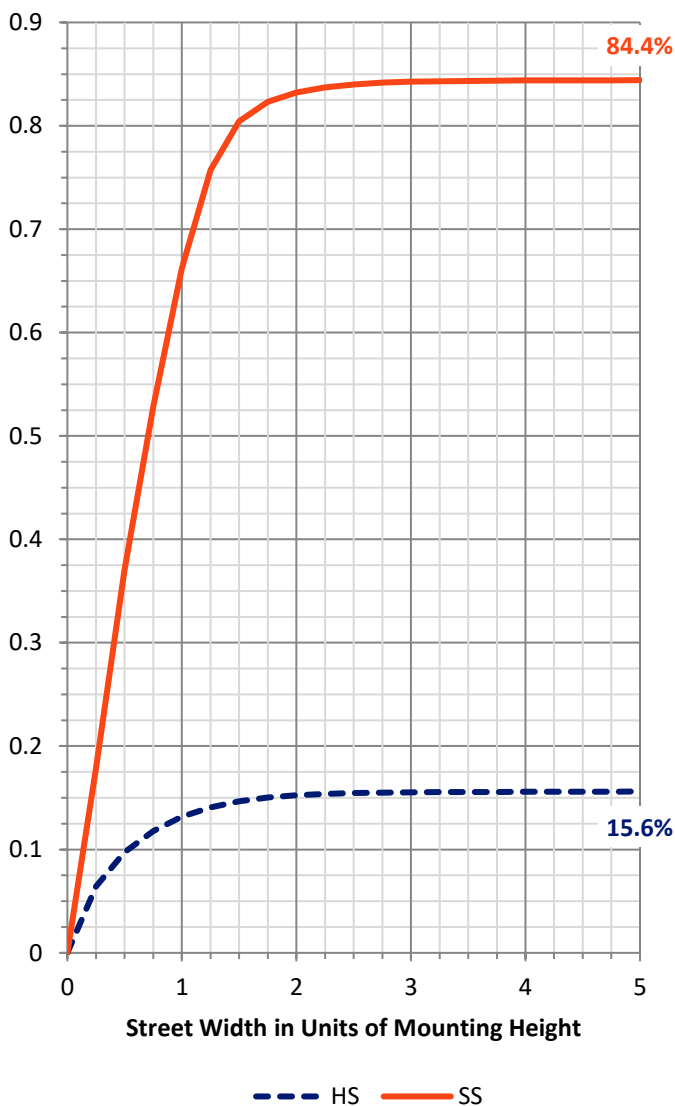
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1522.8	0.0	1522.8
	% Fixture	15.7	0.0	15.7
Street Side	Lumens	8170.7	0.0	8170.7
	% Fixture	84.3	0.0	84.3
Total	Lumens	9693.6	0.0	9693.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	162.5	1.7
10°-20°	522.2	5.4
20°-30°	946.8	9.8
30°-40°	1632.9	16.8
40°-50°	2652.7	27.4
50°-60°	2796.0	28.8
60°-70°	854.3	8.8
70°-80°	109.5	1.1
80°-90°	16.7	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°	9693.6	100.0
0°-180°	9693.6	100.0

Coefficient of Utilization

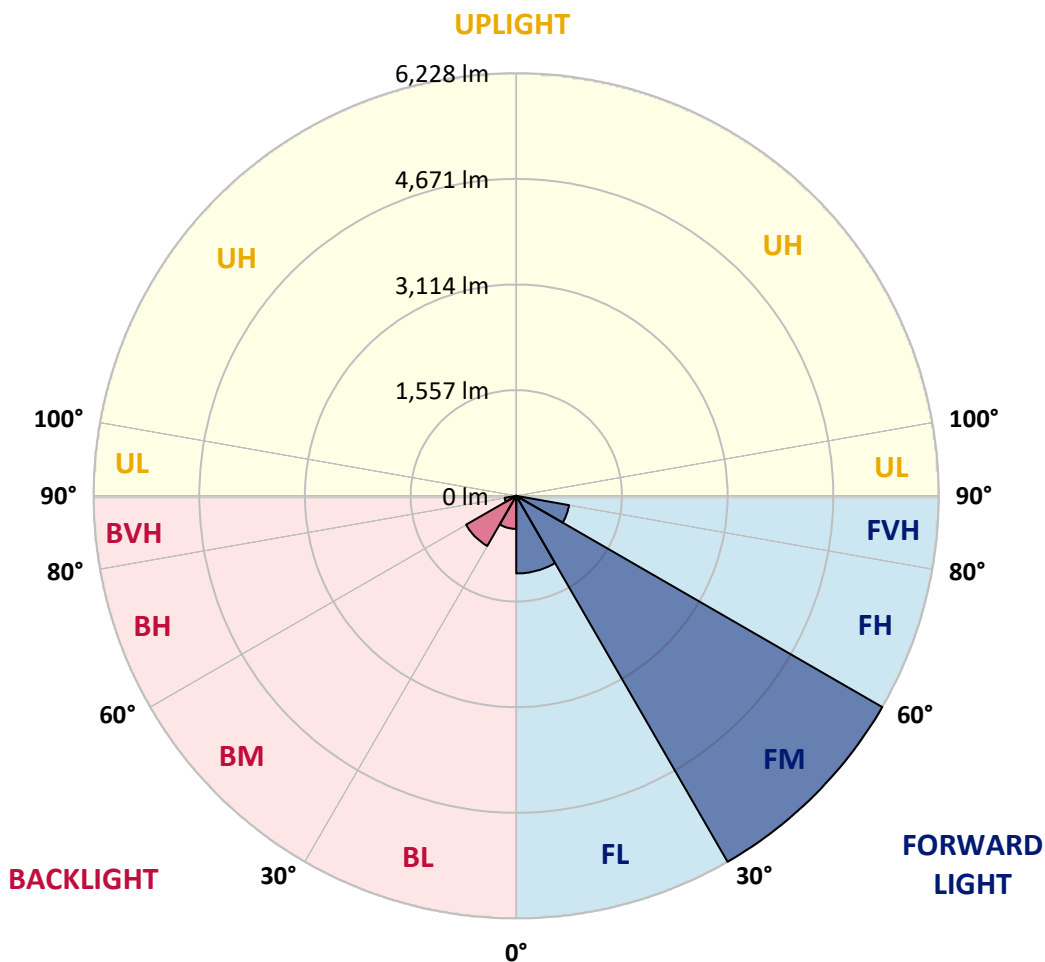


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1144.4	11.8			
FM (30°-60°)	6228.1	64.2			
FH (60°-80°)	790.1	8.2			G1/1800
FVH (80°-90°)	8.2	0.1			G0/10
BL (0°-30°)	487.1	5.0	B1/500		
BM (30°-60°)	853.4	8.8	B1/1000		
BH (60°-80°)	173.7	1.8	B1/500		G1/500
BVH (80°-90°)	8.5	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-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1613.5	1613.5	1613.5	1613.5	1613.5	1613.5	1613.5	1613.5	1613.5	1613.5	1613.5
2.5°	1858.3	1815.4	1817.2	1813.7	1808.3	1788.6	1729.6	1720.7	1681.4	1670.7	1635.0
5°	2081.7	2044.1	2065.6	2033.4	2003.1	1985.1	1888.7	1844.0	1781.5	1758.2	1708.2
7.5°	2221.1	2203.1	2196.0	2197.8	2169.2	2124.5	2081.7	1983.3	1899.4	1881.5	1776.1
10°	2288.9	2278.2	2288.9	2283.5	2296.1	2301.4	2226.4	2167.4	2044.1	2013.7	1849.4
12.5°	2305.0	2326.4	2335.4	2358.6	2389.0	2440.8	2435.4	2355.0	2190.7	2171.0	1962.0
15°	2344.3	2362.2	2353.2	2390.8	2448.0	2535.5	2581.9	2569.5	2392.5	2356.8	2092.4
17.5°	2380.1	2347.9	2378.3	2453.3	2510.5	2644.5	2757.1	2808.9	2612.3	2571.2	2212.1
20°	2428.3	2419.4	2414.0	2451.5	2553.4	2732.0	2955.4	3050.1	2858.9	2816.1	2383.6
22.5°	2574.8	2576.6	2573.0	2517.7	2590.9	2792.8	3128.7	3362.8	3153.8	3118.0	2578.4
25°	2767.8	2744.6	2726.7	2682.0	2673.1	2848.2	3303.9	3745.2	3507.5	3482.5	2789.2
27.5°	2971.5	2971.5	2917.8	2876.8	2819.6	2985.8	3464.6	4116.9	3934.6	3900.7	2973.3
30°	3193.1	3205.6	3198.4	3110.9	3075.2	3135.9	3629.0	4592.1	4424.2	4381.3	3277.0
32.5°	3520.1	3493.3	3523.7	3450.4	3345.0	3398.5	3888.1	5017.4	5060.3	4999.5	3675.5
35°	3952.4	3936.4	3916.7	3797.0	3672.0	3714.8	4254.4	5541.0	5859.0	5828.7	4077.6
37.5°	4340.2	4331.2	4315.2	4233.0	4088.3	4140.1	4670.8	6085.9	6638.0	6538.0	4645.8
40°	4747.6	4795.9	4744.0	4670.8	4538.5	4652.9	5160.4	6409.3	7293.8	7172.4	5079.9
42.5°	5299.7	5262.2	5285.4	5151.4	5079.9	5205.0	5651.7	6732.8	7803.1	7658.4	5541.0
45°	5887.6	5889.4	5826.9	5783.9	5598.1	5733.9	5953.7	6911.5	8208.7	8096.1	5889.4
47.5°	6264.6	6262.8	6330.7	6398.6	6207.5	6073.4	6159.2	7081.2	8417.7	8365.9	6016.3
50°	6205.7	6223.5	6311.1	6564.8	6664.9	6484.4	6352.2	7031.2	8512.5	8507.1	6125.3
52.5°	5398.0	5457.0	5603.5	5969.7	6473.7	6697.0	6554.1	7124.0	8558.9	8567.8	6287.9
55°	4109.7	4141.8	4420.6	4865.6	5423.0	6187.8	6473.7	7197.3	8594.6	8610.7	6484.4
56°	3564.7	3478.9	3881.0	4197.3	4863.8	5700.0	6270.0	7140.2	8573.2	8696.5	6582.7
57.5°	2690.9	2633.8	2959.0	3353.9	3995.3	4878.0	5637.4	6870.4	8428.4	8426.6	6441.5
60°	1636.7	1579.5	1829.7	2062.0	2421.1	3003.7	3809.5	5471.3	7125.8	7275.9	5215.7
62.5°	973.8	1009.5	1256.2	1397.3	1513.5	1574.2	1970.9	3252.0	4754.8	4862.0	3235.9
65°	648.6	661.1	847.0	1079.2	1131.0	900.5	802.3	1316.9	2062.0	1995.9	1334.8
67.5°	400.3	428.8	568.2	811.2	898.8	657.6	380.6	491.4	568.2	568.2	385.9
70°	243.0	257.3	378.8	552.1	616.5	423.4	276.9	276.9	273.4	268.0	230.5
72.5°	116.1	125.0	193.0	284.1	289.5	223.4	214.4	234.0	228.7	226.9	191.2
75°	50.0	53.6	67.9	89.3	101.9	94.7	130.4	168.0	173.4	168.0	137.6
77.5°	16.1	17.9	25.0	32.2	34.0	41.1	55.4	69.7	80.4	75.0	67.9
80°	1.8	3.6	7.1	16.1	25.0	32.2	41.1	46.4	51.8	51.8	48.2
82.5°	1.8	1.8	7.1	14.3	23.3	30.4	39.3	44.7	51.8	53.6	50.0
85°	0.0	1.8	5.3	12.5	19.7	19.7	17.9	17.9	12.5	12.5	12.5
87.5°	0.0	0.0	1.8	1.8	1.8	3.6	3.6	3.6	3.6	3.6	3.6
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°	1613.5	1613.5	1613.5	1613.5	1613.5	1613.5	1613.5	1613.5	1613.5	1613.5	1613.5
2.5°	1627.8	1624.3	1575.9	1545.6	1529.5	1497.3	1477.7	1463.4	1452.7	1440.2	1442.0
5°	1649.2	1636.7	1556.3	1500.9	1434.8	1399.1	1368.7	1343.7	1327.6	1324.1	1316.9
7.5°	1710.0	1643.9	1522.4	1422.3	1338.3	1302.6	1275.8	1259.7	1266.9	1250.8	1263.3
10°	1756.4	1658.2	1481.3	1336.6	1252.6	1225.8	1211.5	1224.0	1241.8	1234.7	1225.8
12.5°	1813.7	1672.5	1415.2	1254.4	1175.8	1156.1	1181.1	1204.3	1240.0	1254.4	1236.5
15°	1877.9	1688.5	1331.2	1159.6	1109.6	1125.7	1168.5	1209.7	1245.4	1263.3	1274.0
17.5°	1956.6	1683.2	1249.0	1084.6	1047.1	1093.5	1145.4	1182.9	1236.5	1263.3	1256.2
20°	2029.8	1665.3	1157.9	1009.5	1011.3	1054.2	1097.1	1157.9	1186.5	1222.2	1209.7
22.5°	2099.5	1633.2	1063.2	957.8	957.8	1023.9	1045.3	1084.6	1109.6	1127.5	1125.7
25°	2197.8	1572.4	984.5	907.7	929.2	972.0	989.9	1002.4	991.7	1006.0	1007.8
27.5°	2267.5	1509.9	920.2	863.0	902.3	934.5	929.2	922.0	897.0	877.4	889.8
30°	2342.5	1436.6	864.8	832.6	854.1	882.7	861.2	839.8	800.5	768.4	770.2
32.5°	2449.8	1402.7	816.6	796.9	825.5	829.1	805.9	773.7	734.4	704.0	702.2
35°	2649.8	1381.2	775.5	773.7	779.1	780.8	757.6	718.3	702.2	677.2	686.1
37.5°	2850.0	1370.5	746.9	739.8	738.0	739.8	712.9	675.4	705.8	704.0	707.6
40°	3105.5	1418.7	705.8	696.9	698.7	698.7	664.7	654.0	707.6	712.9	714.7
42.5°	3364.6	1479.5	679.0	650.4	657.6	657.6	639.7	627.2	664.7	629.0	623.6
45°	3589.7	1568.8	650.4	603.9	621.8	630.8	625.4	603.9	580.8	520.0	520.0
47.5°	3663.0	1647.4	616.5	559.3	573.5	612.9	596.8	552.1	511.1	461.0	457.4
50°	3791.7	1733.2	589.7	507.5	537.8	586.1	570.0	525.3	478.9	443.1	444.9
52.5°	3923.8	1831.5	539.6	446.7	484.2	564.6	564.6	514.6	443.1	418.1	414.5
55°	4122.2	1827.9	450.3	366.3	432.5	532.4	541.4	461.0	396.7	377.0	377.0
56°	4150.8	1745.7	405.6	343.0	409.2	523.5	525.3	446.7	378.8	357.4	357.4
57.5°	3936.4	1575.9	355.6	314.5	380.6	507.5	509.3	434.2	364.5	334.1	330.6
60°	3028.6	1066.8	296.6	280.5	344.8	457.4	466.4	394.9	319.9	296.6	294.8
62.5°	1710.0	591.5	260.9	253.7	296.6	389.5	416.3	344.8	271.6	259.1	262.7
65°	780.8	325.2	219.8	205.5	239.4	300.2	335.9	284.1	223.4	209.1	209.1
67.5°	285.9	221.6	187.6	162.6	168.0	194.7	218.0	184.0	148.3	126.8	132.2
70°	203.7	185.8	164.4	141.2	130.4	126.8	125.0	103.7	73.3	57.2	60.8
72.5°	164.4	153.7	137.6	119.7	101.9	85.7	73.3	53.6	34.0	23.3	21.5
75°	117.9	112.6	100.1	85.7	71.5	60.8	50.0	34.0	17.9	8.9	8.9
77.5°	60.8	60.8	59.0	53.6	44.7	35.7	28.6	19.7	10.7	3.6	3.6
80°	46.4	50.0	51.8	46.4	41.1	32.2	23.3	14.3	7.1	1.8	1.8
82.5°	44.7	51.8	55.4	48.2	41.1	30.4	23.3	14.3	7.1	1.8	1.8
85°	10.7	10.7	16.1	17.9	23.3	25.0	19.7	12.5	5.3	1.8	1.8
87.5°	3.6	3.6	3.6	3.6	3.6	3.6	1.8	1.8	1.8	1.8	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)