

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: P650808

Luminaire Tested: **GALN-SA3C-840-U-T2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P650808
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-840-U-T2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 4000K, 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: 10411.6 lumens
Efficiency: N/A
Efficacy: 65.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

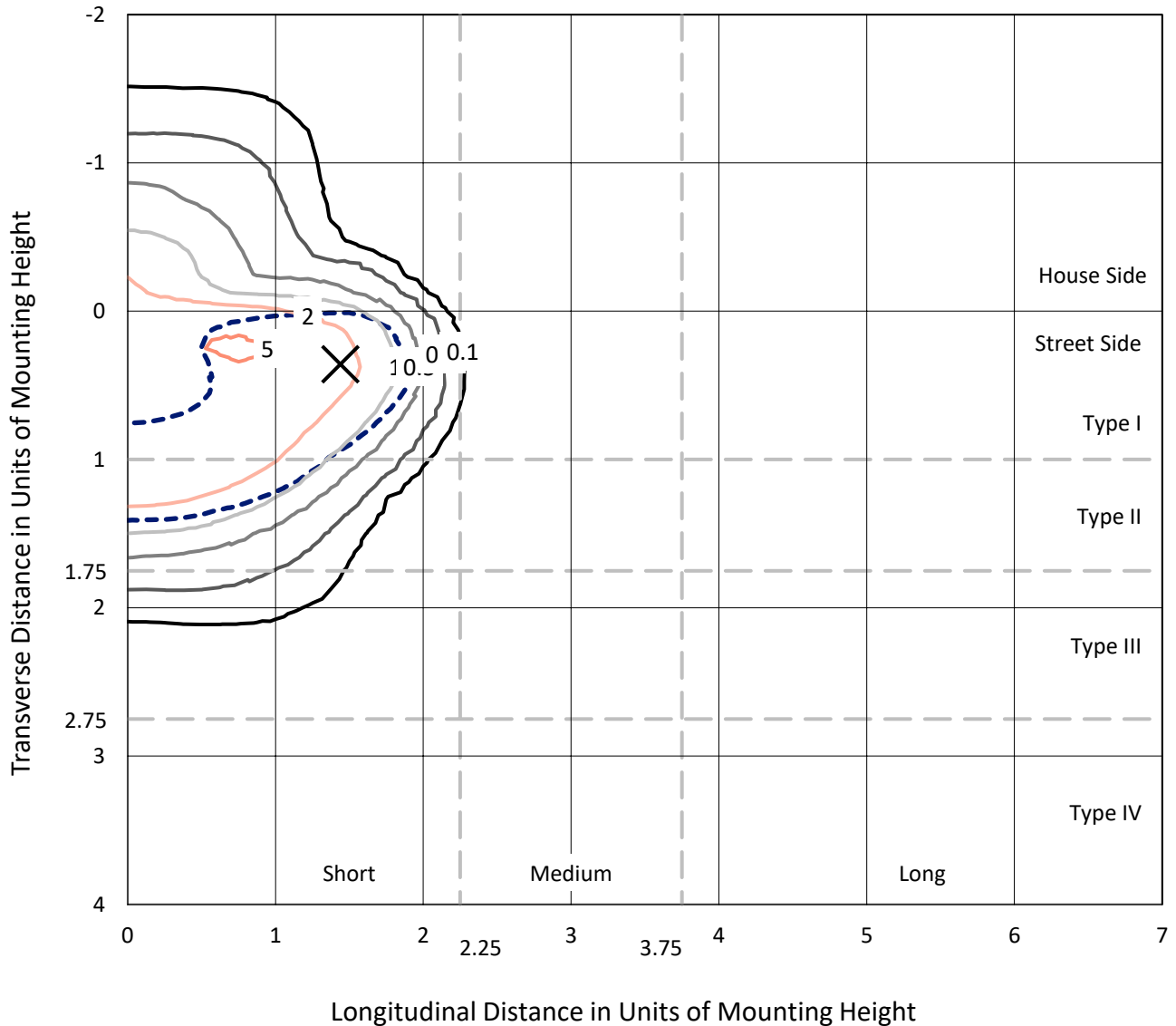
Input Watts (W): 160
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

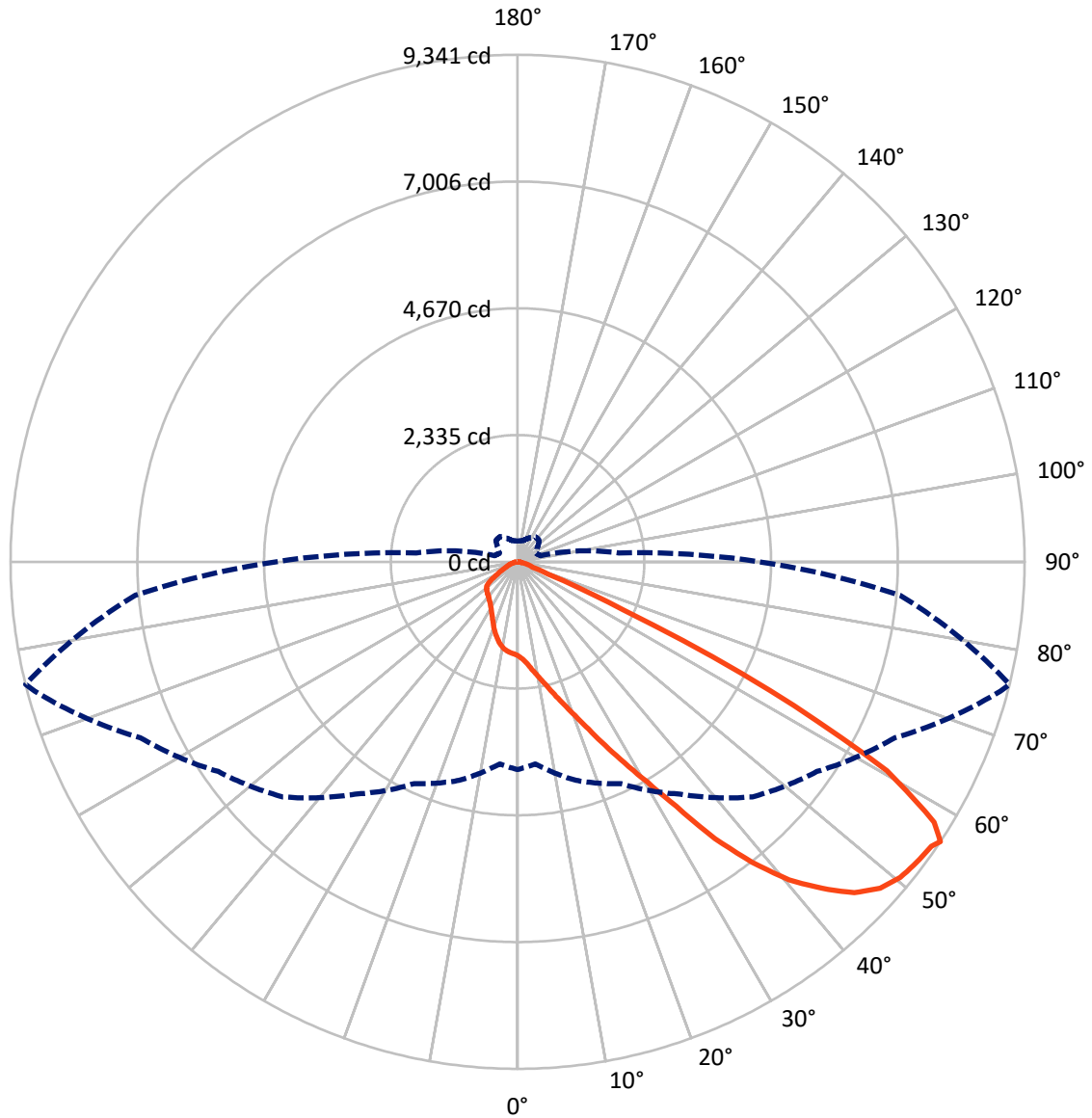
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 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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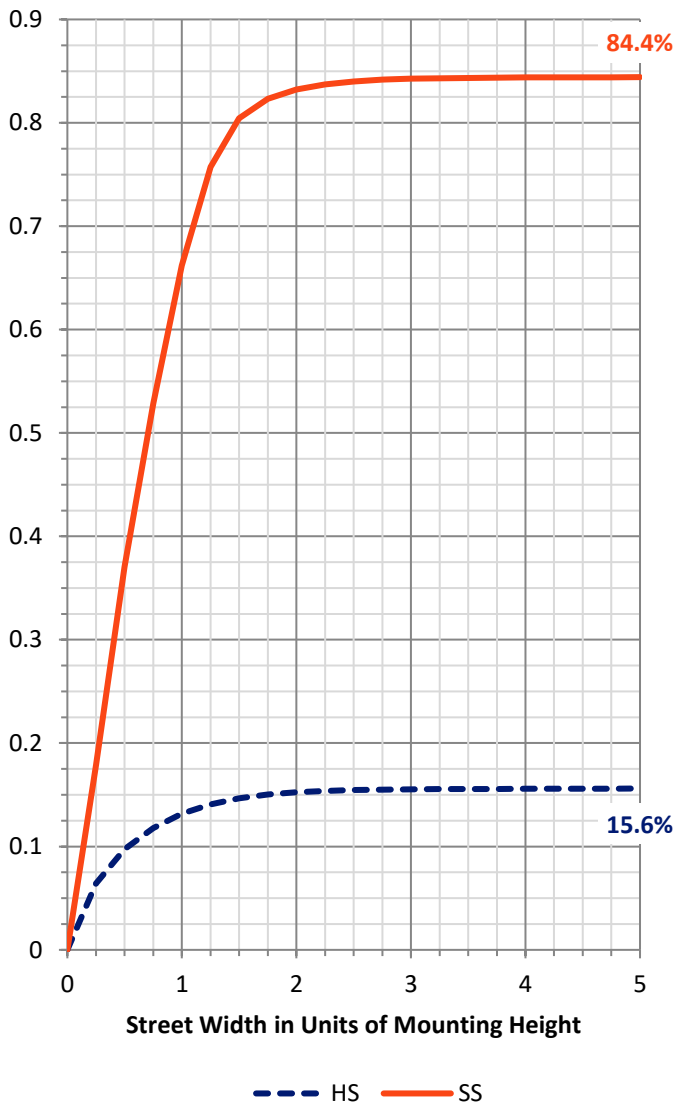
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1635.6	0.0	1635.6
	% Fixture	15.7	0.0	15.7
Street Side	Lumens	8776.0	0.0	8776.0
	% Fixture	84.3	0.0	84.3
Total	Lumens	10411.6	0.0	10411.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	174.6	1.7
10°-20°	560.9	5.4
20°-30°	1017.0	9.8
30°-40°	1753.8	16.8
40°-50°	2849.2	27.4
50°-60°	3003.1	28.8
60°-70°	917.6	8.8
70°-80°	117.6	1.1
80°-90°	17.9	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°	10411.6	100.0
0°-180°	10411.6	100.0

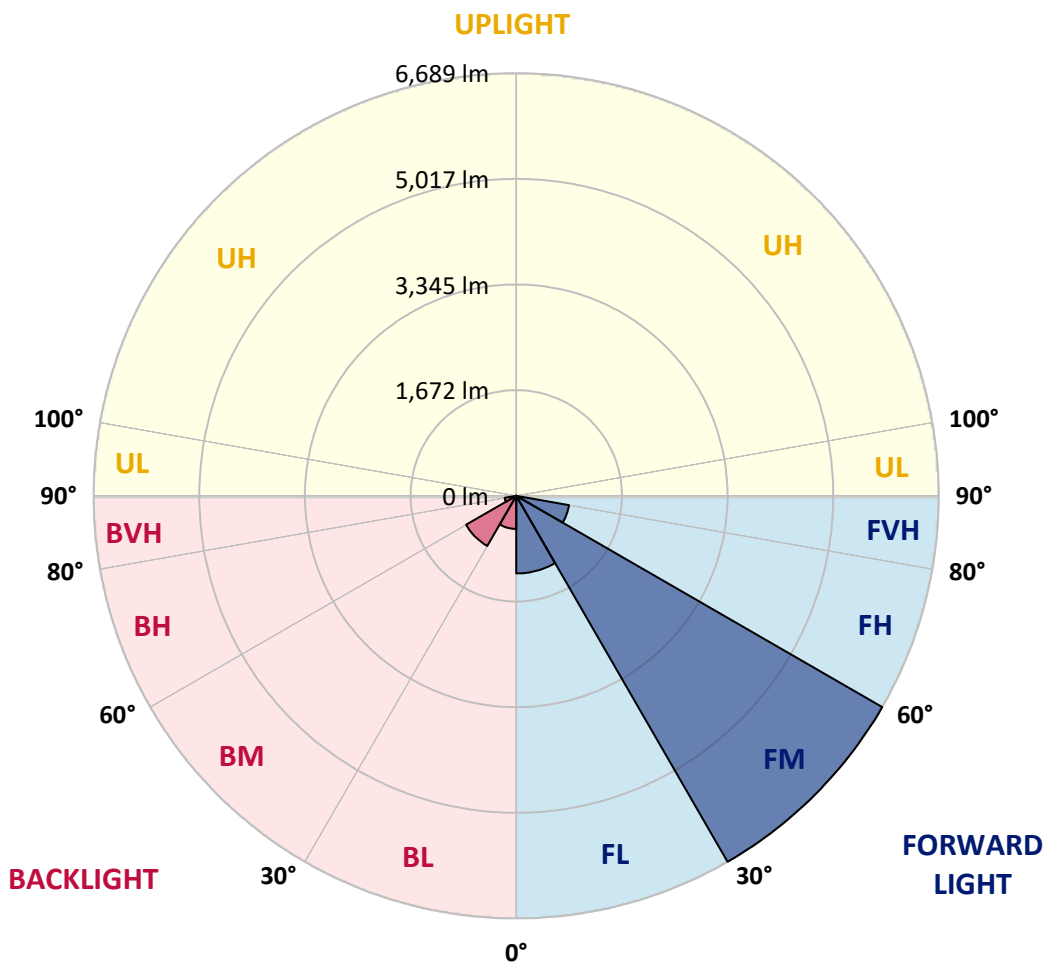


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1229.2	11.8			
FM (30°-60°)	6689.4	64.2			
FH (60°-80°)	848.6	8.2			G1/1800
FVH (80°-90°)	8.8	0.1			G0/10
BL (0°-30°)	523.2	5.0	B2/1000		
BM (30°-60°)	916.7	8.8	B1/1000		
BH (60°-80°)	186.6	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°	1733.0	1733.0	1733.0	1733.0	1733.0	1733.0	1733.0	1733.0	1733.0	1733.0	1733.0
2.5°	1995.9	1949.9	1951.8	1948.0	1942.2	1921.1	1857.8	1848.2	1806.0	1794.4	1756.1
5°	2235.9	2195.5	2218.6	2184.0	2151.4	2132.2	2028.6	1980.6	1913.4	1888.5	1834.7
7.5°	2385.6	2366.3	2358.7	2360.6	2329.9	2281.9	2235.9	2130.3	2040.1	2020.9	1907.6
10°	2458.5	2447.0	2458.5	2452.7	2466.1	2471.9	2391.3	2328.0	2195.5	2162.9	1986.4
12.5°	2475.7	2498.8	2508.4	2533.3	2566.0	2621.6	2615.8	2529.5	2352.9	2331.8	2107.3
15°	2518.0	2537.1	2527.5	2567.9	2629.3	2723.3	2773.2	2759.8	2569.8	2531.4	2247.4
17.5°	2556.4	2521.8	2554.5	2635.0	2696.4	2840.4	2961.3	3016.9	2805.8	2761.7	2375.9
20°	2608.2	2598.6	2592.8	2633.1	2742.5	2934.4	3174.4	3276.0	3070.7	3024.7	2560.2
22.5°	2765.5	2767.5	2763.6	2704.2	2782.8	2999.7	3360.5	3611.9	3387.4	3348.9	2769.4
25°	2972.9	2947.9	2928.7	2880.7	2871.1	3059.1	3548.6	4022.6	3767.3	3740.5	2995.8
27.5°	3191.6	3191.6	3134.0	3089.9	3028.4	3207.0	3721.3	4421.8	4226.0	4189.6	3193.5
30°	3429.6	3443.1	3435.3	3341.3	3302.9	3368.2	3897.9	4932.3	4751.9	4705.8	3519.8
32.5°	3780.8	3752.0	3784.7	3706.0	3592.8	3650.3	4176.2	5389.0	5435.1	5369.9	3947.7
35°	4245.2	4228.0	4206.9	4078.3	3944.0	3990.0	4569.6	5951.4	6293.0	6260.4	4379.6
37.5°	4661.7	4652.1	4634.8	4546.5	4391.1	4446.8	5016.7	6536.8	7129.7	7022.3	4989.9
40°	5099.2	5151.1	5095.5	5016.7	4874.7	4997.6	5542.6	6884.1	7834.1	7703.6	5456.2
42.5°	5692.3	5652.0	5676.9	5533.0	5456.2	5590.5	6070.3	7231.5	8381.1	8225.7	5951.4
45°	6323.7	6325.7	6258.5	6212.4	6012.8	6158.6	6394.7	7423.4	8816.7	8695.9	6325.7
47.5°	6728.7	6726.7	6799.7	6872.6	6667.3	6523.3	6615.4	7605.8	9041.3	8985.6	6461.9
50°	6665.3	6684.5	6778.5	7051.1	7158.6	6964.7	6822.7	7552.0	9143.0	9137.2	6579.0
52.5°	5797.9	5861.2	6018.5	6412.0	6953.2	7193.1	7039.6	7651.8	9192.9	9202.5	6753.7
55°	4414.2	4448.6	4748.0	5226.0	5824.7	6646.2	6953.2	7730.5	9231.2	9248.6	6964.7
56°	3828.7	3736.6	4168.5	4508.2	5224.0	6122.2	6734.4	7669.1	9208.3	9340.7	7070.3
57.5°	2890.3	2828.9	3178.1	3602.3	4291.3	5239.3	6055.0	7379.3	9052.8	9050.8	6918.7
60°	1757.9	1696.5	1965.2	2214.8	2600.5	3226.2	4091.7	5876.6	7653.7	7814.9	5602.1
62.5°	1046.0	1084.3	1349.2	1500.8	1625.6	1690.8	2116.9	3492.9	5107.0	5222.1	3475.6
65°	696.7	710.1	909.7	1159.2	1214.8	967.2	861.7	1414.5	2214.8	2143.7	1433.7
67.5°	429.9	460.6	610.3	871.3	965.4	706.3	408.8	527.8	610.3	610.3	414.5
70°	261.0	276.4	406.9	593.0	662.1	454.8	297.5	297.5	293.7	287.9	247.6
72.5°	124.7	134.3	207.3	305.1	310.9	239.9	230.3	251.4	245.7	243.7	205.4
75°	53.7	57.6	72.9	96.0	109.4	101.7	140.1	180.4	186.2	180.4	147.8
77.5°	17.2	19.2	26.8	34.6	36.5	44.2	59.5	74.8	86.4	80.6	72.9
80°	1.9	3.9	7.7	17.2	26.8	34.6	44.2	49.9	55.7	55.7	51.8
82.5°	1.9	1.9	7.7	15.4	25.0	32.6	42.2	48.0	55.7	57.6	53.7
85°	0.0	1.9	5.7	13.5	21.1	21.1	19.2	19.2	13.5	13.5	13.5
87.5°	0.0	0.0	1.9	1.9	1.9	3.9	3.9	3.9	3.9	3.9	3.9
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°	1733.0	1733.0	1733.0	1733.0	1733.0	1733.0	1733.0	1733.0	1733.0	1733.0	1733.0
2.5°	1748.4	1744.6	1692.7	1660.1	1642.8	1608.2	1587.1	1571.8	1560.3	1546.9	1548.8
5°	1771.4	1757.9	1671.6	1612.1	1541.1	1502.7	1470.1	1443.2	1425.9	1422.1	1414.5
7.5°	1836.7	1765.7	1635.2	1527.7	1437.4	1399.1	1370.3	1353.0	1360.7	1343.4	1356.9
10°	1886.5	1781.0	1591.0	1435.6	1345.3	1316.6	1301.2	1314.7	1333.8	1326.2	1316.6
12.5°	1948.0	1796.4	1520.0	1347.3	1262.8	1241.7	1268.6	1293.5	1331.9	1347.3	1328.1
15°	2017.1	1813.6	1429.8	1245.5	1191.8	1209.1	1255.1	1299.3	1337.7	1356.9	1368.4
17.5°	2101.5	1807.9	1341.5	1165.0	1124.7	1174.5	1230.2	1270.5	1328.1	1356.9	1349.2
20°	2180.2	1788.6	1243.7	1084.3	1086.2	1132.3	1178.4	1243.7	1274.4	1312.7	1299.3
22.5°	2255.1	1754.2	1141.9	1028.7	1028.7	1099.7	1122.7	1165.0	1191.8	1211.0	1209.1
25°	2360.6	1688.9	1057.5	975.0	998.0	1044.0	1063.2	1076.6	1065.1	1080.5	1082.5
27.5°	2435.5	1621.7	988.3	927.0	969.2	1003.7	998.0	990.3	963.4	942.3	955.7
30°	2516.0	1543.0	928.9	894.3	917.4	948.1	925.0	902.1	859.8	825.3	827.2
32.5°	2631.2	1506.6	877.1	856.0	886.7	890.5	865.6	831.0	788.8	756.1	754.2
35°	2846.1	1483.5	832.9	831.0	836.8	838.6	813.8	771.5	754.2	727.4	737.0
37.5°	3061.1	1472.0	802.2	794.6	792.6	794.6	765.7	725.4	758.1	756.1	760.0
40°	3335.6	1523.8	758.1	748.5	750.4	750.4	713.9	702.4	760.0	765.7	767.7
42.5°	3613.9	1589.1	729.3	698.6	706.3	706.3	687.1	673.6	713.9	675.6	669.8
45°	3855.6	1685.0	698.6	648.7	667.8	677.5	671.7	648.7	623.8	558.5	558.5
47.5°	3934.4	1769.5	662.1	600.7	616.0	658.3	641.0	593.0	548.9	495.2	491.3
50°	4072.5	1861.6	633.4	545.1	577.7	629.5	612.2	564.2	514.4	475.9	477.9
52.5°	4214.5	1967.2	579.6	479.8	520.1	606.4	606.4	552.7	475.9	449.1	445.2
55°	4427.5	1963.3	483.7	393.4	464.5	571.9	581.6	495.2	426.1	404.9	404.9
56°	4458.2	1875.0	435.6	368.4	439.5	562.3	564.2	479.8	406.9	383.8	383.8
57.5°	4228.0	1692.7	381.9	337.7	408.8	545.1	547.0	466.3	391.5	358.9	355.1
60°	3253.0	1145.8	318.6	301.3	370.4	491.3	500.9	424.1	343.5	318.6	316.6
62.5°	1836.7	635.3	280.2	272.5	318.6	418.4	447.2	370.4	291.7	278.3	282.2
65°	838.6	349.3	236.1	220.7	257.2	322.4	360.8	305.1	239.9	224.5	224.5
67.5°	307.0	238.0	201.5	174.7	180.4	209.2	234.1	197.6	159.3	136.2	142.0
70°	218.8	199.6	176.5	151.6	140.1	136.2	134.3	111.3	78.7	61.4	65.3
72.5°	176.5	165.1	147.8	128.6	109.4	92.1	78.7	57.6	36.5	25.0	23.0
75°	126.7	120.9	107.5	92.1	76.8	65.3	53.7	36.5	19.2	9.6	9.6
77.5°	65.3	65.3	63.3	57.6	48.0	38.3	30.7	21.1	11.5	3.9	3.9
80°	49.9	53.7	55.7	49.9	44.2	34.6	25.0	15.4	7.7	1.9	1.9
82.5°	48.0	55.7	59.5	51.8	44.2	32.6	25.0	15.4	7.7	1.9	1.9
85°	11.5	11.5	17.2	19.2	25.0	26.8	21.1	13.5	5.7	1.9	1.9
87.5°	3.9	3.9	3.9	3.9	3.9	3.9	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)