

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: P647398

Luminaire Tested: **GALN-SA4D-835-U-T2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647398
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-SA4D-835-U-T2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3500K, 1200mA 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: 14134.7 lumens
Efficiency: N/A
Efficacy: 57.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

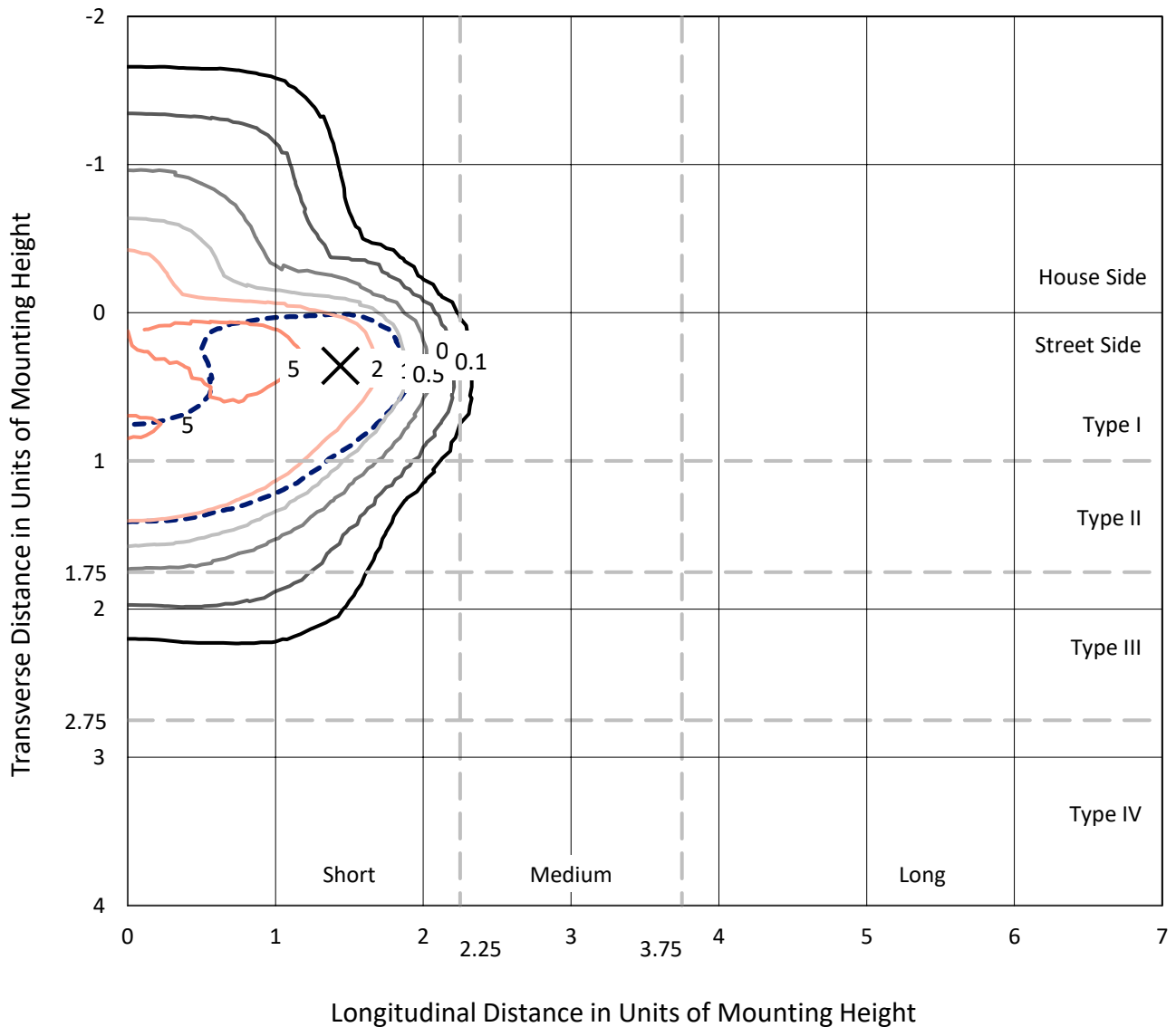
Input Watts (W): 245
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

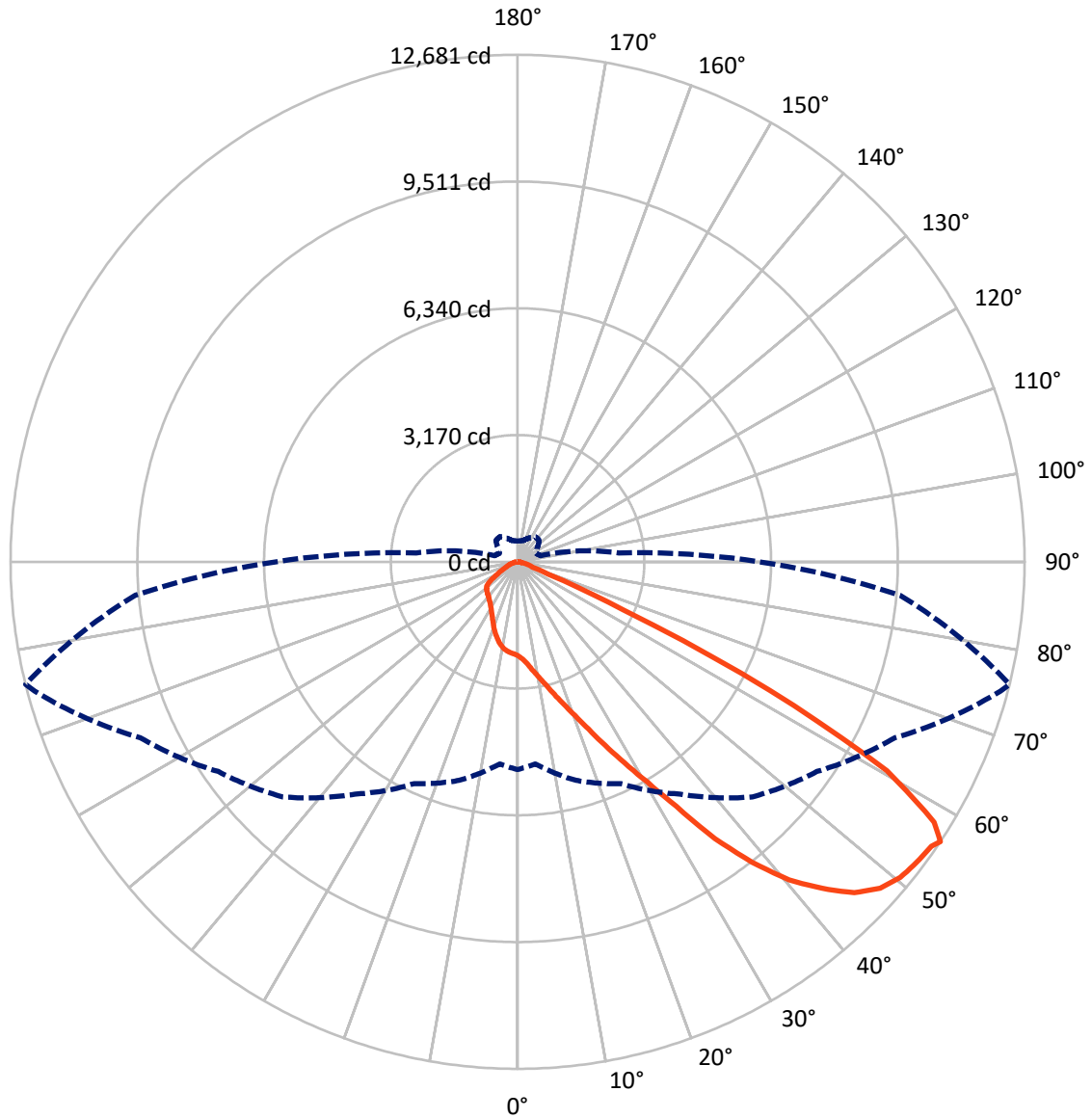
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 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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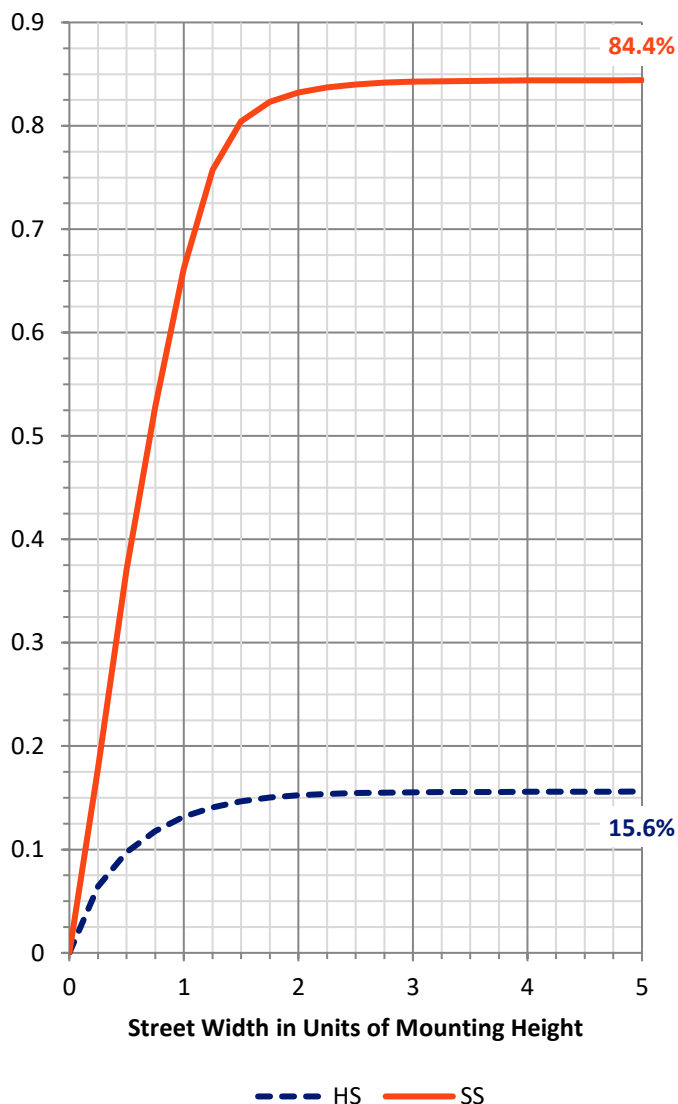
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2220.5	0.0	2220.5
	% Fixture	15.7	0.0	15.7
Street Side	Lumens	11914.2	0.0	11914.2
	% Fixture	84.3	0.0	84.3
Total	Lumens	14134.7	0.0	14134.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	237.0	1.7
10°-20°	761.4	5.4
20°-30°	1380.6	9.8
30°-40°	2381.0	16.8
40°-50°	3868.0	27.4
50°-60°	4077.0	28.8
60°-70°	1245.7	8.8
70°-80°	159.7	1.1
80°-90°	24.3	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°	14134.7	100.0
0°-180°	14134.7	100.0

Coefficient of Utilization



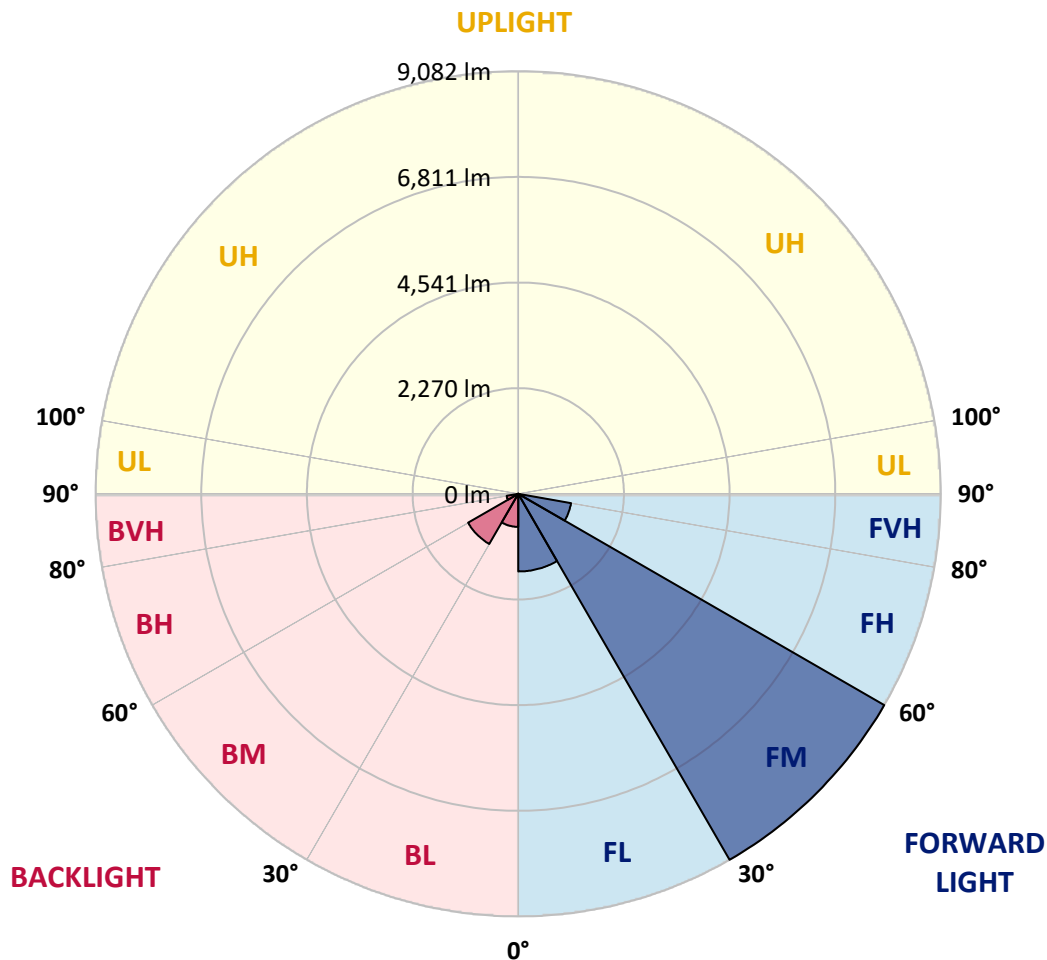
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1668.7	11.8			
FM (30°-60°)	9081.5	64.2			
FH (60°-80°)	1152.1	8.2			G1/1800
FVH (80°-90°)	11.9	0.1			G1/100
BL (0°-30°)	710.3	5.0	B2/1000		
BM (30°-60°)	1244.4	8.8	B2/2500		
BH (60°-80°)	253.3	1.8	B1/500		G1/500
BVH (80°-90°)	12.4	0.1			G1/100
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°	2352.8	2352.8	2352.8	2352.8	2352.8	2352.8	2352.8	2352.8	2352.8	2352.8	2352.8
2.5°	2709.7	2647.2	2649.8	2644.6	2636.8	2608.1	2522.1	2509.0	2451.7	2436.1	2384.0
5°	3035.4	2980.6	3012.0	2965.1	2920.7	2894.7	2754.0	2688.8	2597.7	2563.8	2490.8
7.5°	3238.6	3212.6	3202.2	3204.7	3163.1	3097.9	3035.4	2892.1	2769.6	2743.6	2589.9
10°	3337.6	3322.0	3337.6	3329.8	3348.0	3355.9	3246.4	3160.4	2980.6	2936.4	2696.7
12.5°	3361.0	3392.3	3405.3	3439.2	3483.5	3559.0	3551.3	3434.0	3194.3	3165.7	2860.8
15°	3418.4	3444.4	3431.4	3486.2	3569.5	3697.2	3764.9	3746.7	3488.7	3436.6	3051.0
17.5°	3470.5	3423.6	3467.9	3577.3	3660.7	3856.1	4020.2	4095.8	3809.2	3749.3	3225.6
20°	3540.8	3527.8	3520.0	3574.7	3723.2	3983.7	4309.5	4447.5	4168.8	4106.2	3475.7
22.5°	3754.5	3757.1	3751.9	3671.1	3778.0	4072.4	4562.1	4903.5	4598.6	4546.6	3759.7
25°	4035.9	4002.0	3975.9	3910.9	3897.8	4153.1	4817.5	5461.1	5114.6	5078.1	4067.1
27.5°	4332.9	4332.9	4254.7	4194.8	4111.5	4353.7	5052.0	6003.0	5737.3	5687.8	4335.5
30°	4656.0	4674.2	4663.8	4536.2	4484.0	4572.6	5291.7	6696.1	6451.1	6388.7	4778.4
32.5°	5132.8	5093.7	5138.0	5031.2	4877.5	4955.6	5669.5	7316.2	7378.7	7290.1	5359.5
35°	5763.3	5739.9	5711.2	5536.7	5354.2	5416.8	6203.6	8079.5	8543.4	8499.1	5945.7
37.5°	6328.7	6315.7	6292.2	6172.4	5961.3	6036.9	6810.7	8874.3	9679.4	9533.4	6774.2
40°	6922.7	6993.1	6917.6	6810.7	6617.9	6784.7	7524.6	9345.8	10635.6	10458.4	7407.3
42.5°	7727.8	7673.2	7707.0	7511.6	7407.3	7589.8	8241.2	9817.4	11378.1	11167.1	8079.5
45°	8585.0	8587.6	8496.5	8433.9	8162.9	8361.0	8681.4	10078.0	11969.6	11805.4	8587.6
47.5°	9134.8	9132.2	9231.2	9330.2	9051.4	8856.0	8981.1	10325.5	12274.4	12198.8	8772.7
50°	9048.8	9074.9	9202.5	9572.5	9718.4	9455.3	9262.5	10252.5	12412.5	12404.7	8931.6
52.5°	7871.1	7957.2	8170.8	8704.9	9439.6	9765.3	9556.9	10388.1	12480.2	12493.2	9168.7
55°	5992.6	6039.5	6446.0	7094.7	7907.6	9022.7	9439.6	10494.9	12532.3	12555.8	9455.3
56°	5197.9	5072.9	5659.1	6120.2	7092.1	8311.5	9142.6	10411.5	12501.1	12680.8	9598.6
57.5°	3923.8	3840.5	4314.6	4890.5	5825.8	7112.9	8220.2	10018.1	12290.0	12287.5	9392.7
60°	2386.6	2303.3	2668.0	3006.7	3530.4	4379.8	5554.8	7978.0	10390.6	10609.5	7605.4
62.5°	1420.0	1472.1	1831.7	2037.4	2206.8	2295.4	2873.8	4742.0	6933.2	7089.5	4718.5
65°	945.8	964.0	1235.0	1573.7	1649.2	1313.2	1169.9	1920.2	3006.7	2910.3	1946.3
67.5°	583.6	625.3	828.6	1182.9	1310.6	958.8	555.0	716.5	828.6	828.6	562.8
70°	354.3	375.2	552.3	805.1	898.9	617.5	403.9	403.9	398.6	390.8	336.1
72.5°	169.4	182.4	281.4	414.3	422.1	325.6	312.7	341.3	333.5	330.9	278.7
75°	73.0	78.1	99.0	130.3	148.5	138.1	190.2	244.9	252.8	244.9	200.6
77.5°	23.4	26.1	36.5	46.9	49.5	59.9	80.8	101.6	117.2	109.5	99.0
80°	2.6	5.2	10.4	23.4	36.5	46.9	59.9	67.7	75.6	75.6	70.3
82.5°	2.6	2.6	10.4	20.8	33.9	44.3	57.3	65.1	75.6	78.1	73.0
85°	0.0	2.6	7.8	18.2	28.7	28.7	26.1	26.1	18.2	18.2	18.2
87.5°	0.0	0.0	2.6	2.6	2.6	5.2	5.2	5.2	5.2	5.2	5.2
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°	2352.8	2352.8	2352.8	2352.8	2352.8	2352.8	2352.8	2352.8	2352.8	2352.8	2352.8
2.5°	2373.6	2368.3	2298.0	2253.7	2230.3	2183.4	2154.7	2133.9	2118.2	2100.0	2102.6
5°	2404.8	2386.6	2269.4	2188.6	2092.2	2040.1	1995.8	1959.3	1935.9	1930.6	1920.2
7.5°	2493.5	2397.1	2219.9	2073.9	1951.5	1899.4	1860.3	1836.8	1847.3	1823.8	1842.1
10°	2561.2	2417.9	2159.9	1948.9	1826.4	1787.4	1766.5	1784.8	1810.8	1800.4	1787.4
12.5°	2644.6	2438.7	2063.5	1829.0	1714.4	1685.7	1722.2	1756.1	1808.2	1829.0	1803.0
15°	2738.4	2462.1	1941.1	1691.0	1618.0	1641.5	1704.0	1763.9	1816.0	1842.1	1857.7
17.5°	2853.0	2454.4	1821.3	1581.5	1526.8	1594.6	1670.1	1724.8	1803.0	1842.1	1831.7
20°	2959.8	2428.3	1688.4	1472.1	1474.7	1537.3	1599.7	1688.4	1730.0	1782.1	1763.9
22.5°	3061.5	2381.4	1550.3	1396.6	1396.6	1492.9	1524.2	1581.5	1618.0	1644.1	1641.5
25°	3204.7	2292.8	1435.6	1323.6	1354.8	1417.4	1443.5	1461.7	1446.0	1466.9	1469.5
27.5°	3306.4	2201.6	1341.8	1258.4	1315.8	1362.7	1354.8	1344.4	1307.9	1279.3	1297.5
30°	3415.8	2094.8	1261.0	1214.1	1245.4	1287.1	1255.9	1224.6	1167.2	1120.3	1123.0
32.5°	3572.1	2045.3	1190.7	1162.1	1203.7	1209.0	1175.0	1128.1	1070.8	1026.6	1023.9
35°	3863.9	2014.0	1130.8	1128.1	1136.0	1138.6	1104.7	1047.4	1023.9	987.4	1000.5
37.5°	4155.8	1998.4	1089.1	1078.7	1076.1	1078.7	1039.6	984.9	1029.2	1026.6	1031.8
40°	4528.3	2068.8	1029.2	1016.1	1018.8	1018.8	969.3	953.6	1031.8	1039.6	1042.2
42.5°	4906.1	2157.3	990.1	948.4	958.8	958.8	932.8	914.5	969.3	917.1	909.3
45°	5234.4	2287.6	948.4	880.6	906.7	919.7	911.9	880.6	846.8	758.2	758.2
47.5°	5341.2	2402.2	898.9	815.5	836.3	893.7	870.2	805.1	745.2	672.2	667.0
50°	5528.8	2527.3	859.8	739.9	784.3	854.6	831.2	766.0	698.3	646.1	648.8
52.5°	5721.6	2670.6	786.8	651.4	706.1	823.3	823.3	750.3	646.1	609.6	604.5
55°	6010.9	2665.4	656.5	534.1	630.5	776.4	789.4	672.2	578.4	549.7	549.7
56°	6052.5	2545.5	591.5	500.3	596.6	763.4	766.0	651.4	552.3	521.1	521.1
57.5°	5739.9	2298.0	518.5	458.5	555.0	739.9	742.6	633.1	531.5	487.3	482.0
60°	4416.3	1555.5	432.5	409.0	502.8	667.0	680.0	575.8	466.4	432.5	429.9
62.5°	2493.5	862.4	380.4	370.0	432.5	568.0	607.1	502.8	396.0	377.8	383.0
65°	1138.6	474.2	320.5	299.7	349.1	437.7	489.8	414.3	325.6	304.8	304.8
67.5°	416.9	323.1	273.6	237.1	244.9	284.0	317.9	268.3	216.3	185.0	192.8
70°	297.0	271.0	239.7	205.9	190.2	185.0	182.4	151.1	106.8	83.4	88.6
72.5°	239.7	224.1	200.6	174.5	148.5	125.0	106.8	78.1	49.5	33.9	31.2
75°	171.9	164.1	145.9	125.0	104.2	88.6	73.0	49.5	26.1	13.0	13.0
77.5°	88.6	88.6	86.0	78.1	65.1	52.1	41.7	28.7	15.7	5.2	5.2
80°	67.7	73.0	75.6	67.7	59.9	46.9	33.9	20.8	10.4	2.6	2.6
82.5°	65.1	75.6	80.8	70.3	59.9	44.3	33.9	20.8	10.4	2.6	2.6
85°	15.7	15.7	23.4	26.1	33.9	36.5	28.7	18.2	7.8	2.6	2.6
87.5°	5.2	5.2	5.2	5.2	5.2	5.2	2.6	2.6	2.6	2.6	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)