

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: P651344

Luminaire Tested: **GALN-SA4D-840-U-SL3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651344
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-20)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4D-840-U-SL3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21773.5 lumens
Efficiency: N/A
Efficacy: 88.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

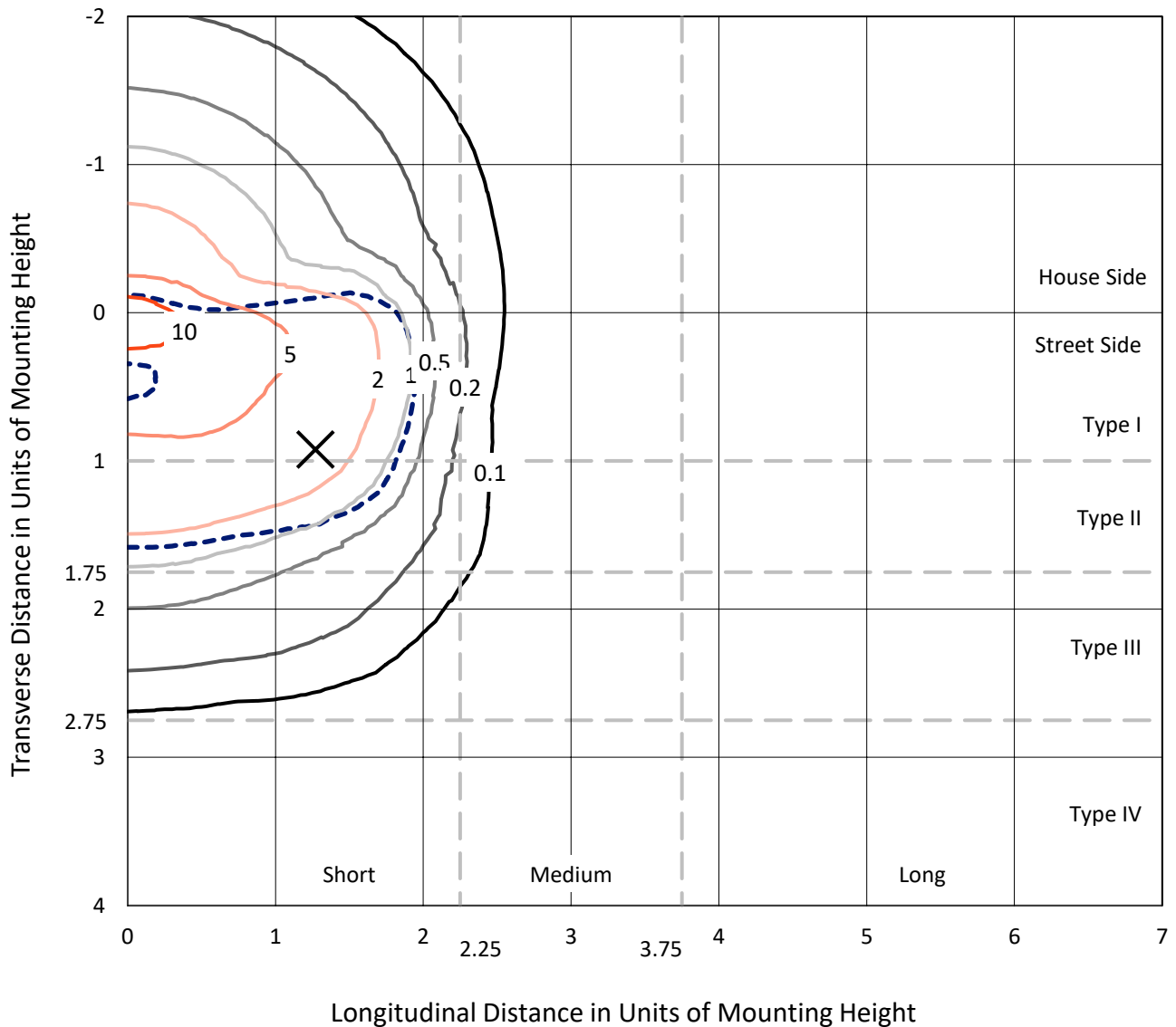
Input Watts (W): 245
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

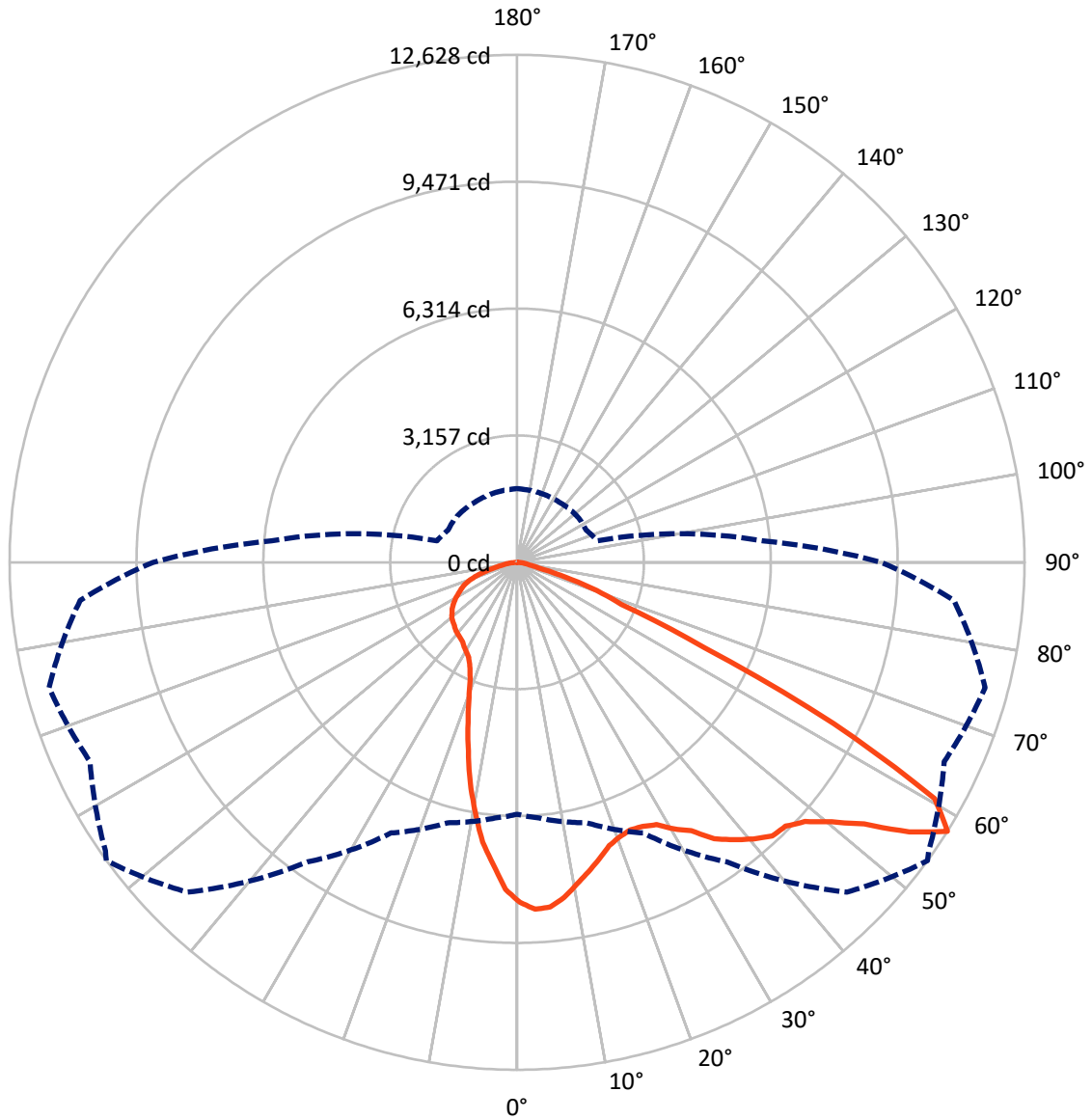
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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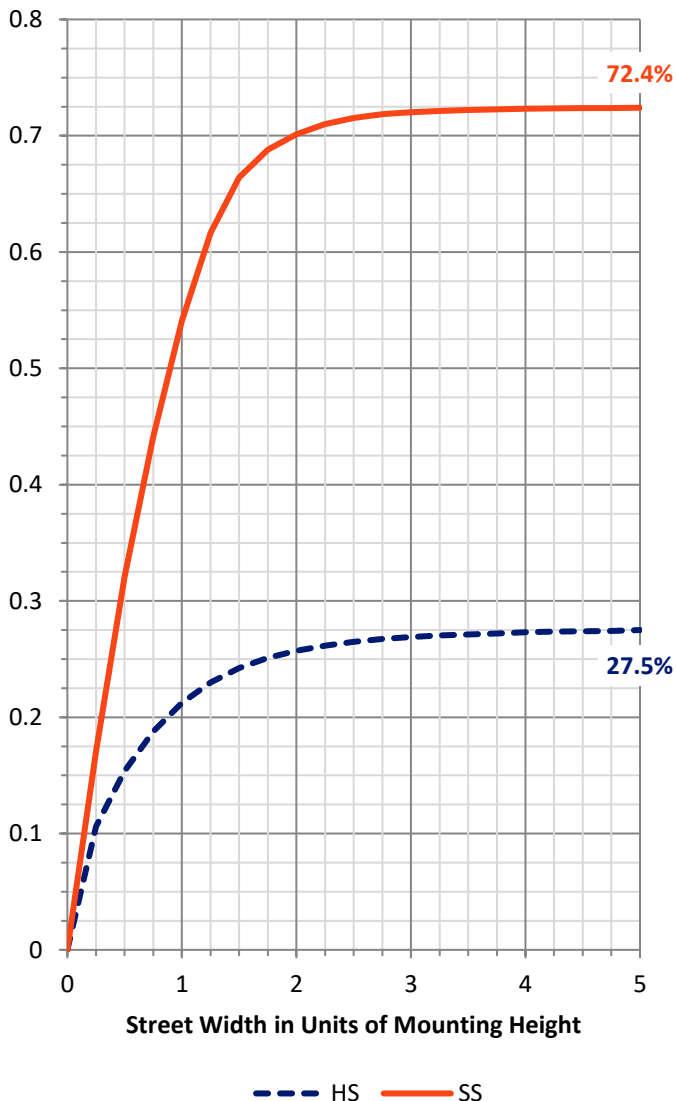
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6023.8	0.0	6023.8
	% Fixture	27.7	0.0	27.7
Street Side	Lumens	15749.7	0.0	15749.7
	% Fixture	72.3	0.0	72.3
Total	Lumens	21773.5	0.0	21773.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	729.9	3.4
10°-20°	1689.9	7.8
20°-30°	2374.3	10.9
30°-40°	3319.3	15.2
40°-50°	4493.7	20.6
50°-60°	5473.6	25.1
60°-70°	2850.9	13.1
70°-80°	730.5	3.4
80°-90°	111.4	0.5
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°	21773.5	100.0
0°-180°	21773.5	100.0



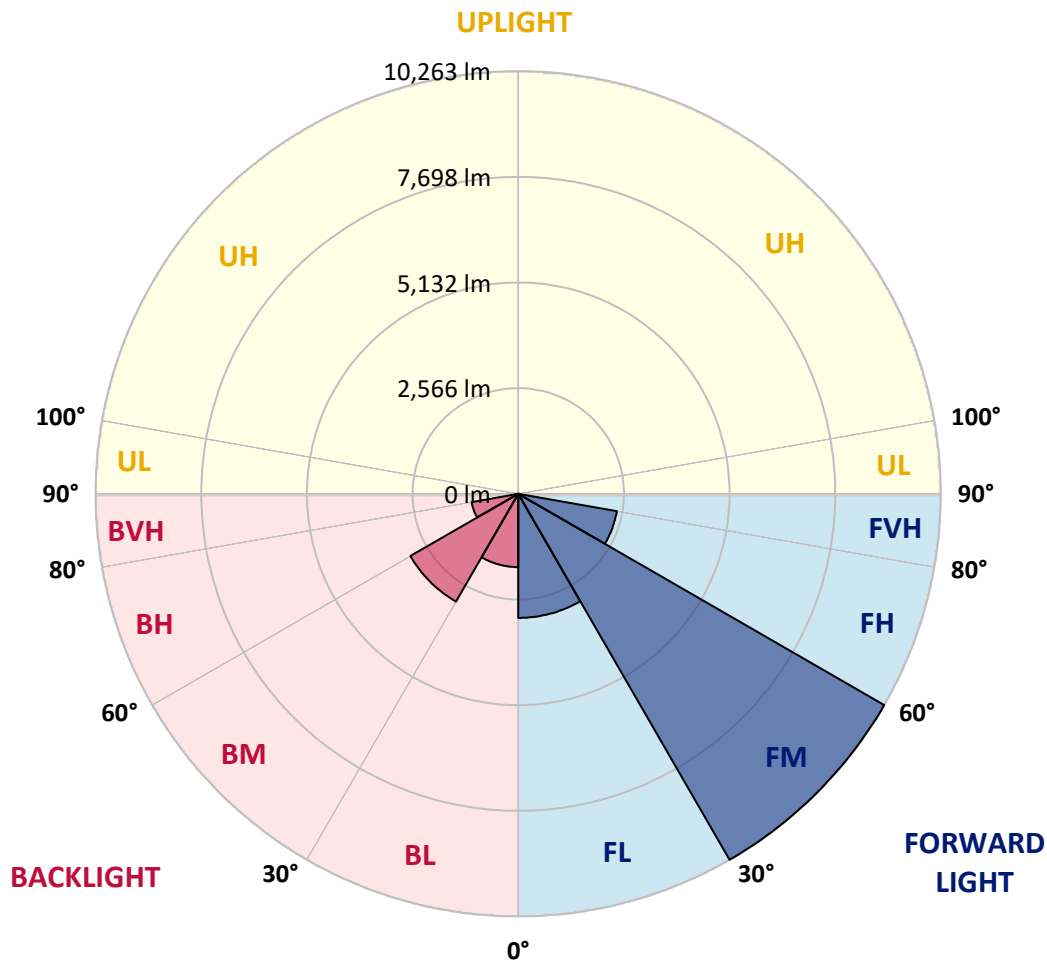
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3013.7	13.8			
FM (30°-60°)	10263.4	47.1			
FH (60°-80°)	2430.5	11.2			G2/5000
FVH (80°-90°)	42.1	0.2			G1/100
BL (0°-30°)	1780.3	8.2	B3/2500		
BM (30°-60°)	3023.3	13.9	B3/5000		
BH (60°-80°)	1150.8	5.3	B3/2500		G3/2500
BVH (80°-90°)	69.3	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	8463.1	8463.1	8463.1	8463.1	8463.1	8463.1	8463.1	8463.1	8463.1	8463.1	8463.1
2.5°	8703.8	8670.2	8675.8	8720.6	8664.6	8642.2	8642.2	8533.0	8541.4	8465.9	8446.3
5°	8502.3	8424.0	8477.1	8544.3	8555.5	8577.9	8614.2	8586.3	8507.9	8426.7	8295.2
7.5°	7976.1	8046.1	8065.7	8113.3	8214.0	8306.4	8421.1	8342.8	8339.9	8258.8	8180.4
10°	7514.3	7472.4	7578.8	7648.7	7816.6	7970.6	8146.9	8138.4	8180.4	8088.1	7953.8
12.5°	7055.4	7021.8	7072.1	7231.7	7466.8	7690.7	7900.6	7822.2	8046.1	8029.3	7741.1
15°	6568.5	6593.6	6666.4	6814.7	7122.5	7391.2	7657.1	7659.9	7858.6	7925.8	7539.6
17.5°	6227.0	6199.0	6291.4	6512.5	6786.7	7108.6	7410.8	7472.4	7777.4	7816.6	7478.0
20°	5972.3	6011.5	6131.8	6243.8	6560.1	6949.0	7290.5	7312.8	7760.7	7867.0	7380.0
22.5°	5910.7	5888.3	5927.5	6109.4	6369.7	6792.3	7226.1	7310.1	7757.9	7850.2	7195.3
25°	5846.4	5919.1	5916.4	6098.3	6288.6	6666.4	7279.3	7371.6	7906.2	7936.9	7220.5
27.5°	5991.9	5983.5	6061.8	6075.9	6310.9	6700.0	7391.2	7461.2	8152.5	8127.3	7240.1
30°	6137.4	6095.5	6143.0	6308.2	6417.3	6893.1	7699.1	7693.5	8471.5	8454.7	7301.6
32.5°	6316.6	6297.0	6327.8	6473.3	6657.9	7150.5	7959.3	8124.5	8796.1	8902.5	7514.3
35°	6350.1	6431.3	6504.0	6700.0	6963.1	7567.6	8449.1	8586.3	9171.2	9504.2	7920.2
37.5°	6562.8	6593.6	6764.3	7111.3	7352.0	8124.5	8759.8	8846.5	9512.6	9890.4	8348.4
40°	6789.5	6825.9	7083.4	7447.2	7777.4	8488.3	9050.8	9078.8	9621.7	10187.0	8628.2
42.5°	7097.4	7130.9	7385.7	7841.8	8284.0	8799.0	9308.3	9339.1	9613.4	10528.5	9073.2
45°	7416.4	7497.6	7797.0	8314.8	8712.2	9162.8	9367.1	9493.0	9691.7	10833.6	9434.3
47.5°	7864.2	7939.8	8186.0	8692.6	9157.1	9481.9	9638.5	9761.7	9879.2	11099.4	9666.5
50°	8339.9	8354.0	8653.4	9112.4	9453.8	9842.8	10145.1	10187.0	10125.5	11407.3	10061.1
52.5°	8689.8	8734.5	8966.8	9414.7	9924.0	10402.6	10816.8	10861.5	10741.2	11522.0	10195.4
55°	8110.4	8085.3	8463.1	9059.3	10240.3	11236.6	11838.3	11871.9	11189.0	11877.4	10634.9
57.5°	6269.0	6389.3	6711.2	7430.4	9098.4	11606.0	12627.5	12507.2	11726.3	12056.6	10914.8
60°	4556.2	4528.2	4743.7	5225.0	6856.7	10002.3	11939.0	12062.1	11287.0	10867.1	9000.5
62.5°	3711.0	3671.8	3688.6	3705.4	4424.7	6638.3	8838.2	8835.3	8692.6	7811.0	6070.3
65°	2966.5	3058.9	3067.3	3193.3	3285.6	3965.7	5121.5	5395.8	4698.9	3853.7	2795.8
67.5°	2236.1	2202.5	2314.5	2762.3	2935.8	2863.0	2795.8	2826.6	2009.4	1449.7	1365.7
70°	1318.2	1304.1	1438.5	1925.5	2418.0	2275.3	2107.4	2110.2	1379.7	1013.1	1127.9
72.5°	722.1	719.2	747.2	976.7	1374.1	1427.3	1264.9	1304.1	822.8	820.0	881.5
75°	403.0	394.6	386.2	431.0	495.3	523.4	534.5	540.2	565.3	632.5	657.7
77.5°	148.4	142.7	142.7	165.1	209.9	263.1	333.0	338.7	400.2	459.0	484.2
80°	50.4	56.0	75.5	103.5	139.9	187.5	226.6	232.3	282.7	321.9	330.3
82.5°	30.8	33.6	50.4	72.7	100.8	131.5	167.9	170.7	209.9	235.1	246.2
85°	14.0	16.8	28.0	44.7	64.3	86.8	89.6	89.6	86.8	89.6	83.9
87.5°	0.0	0.0	5.6	5.6	5.6	8.4	11.2	8.4	14.0	16.8	16.8
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°	8463.1	8463.1	8463.1	8463.1	8463.1	8463.1	8463.1	8463.1	8463.1	8463.1	8463.1
2.5°	8387.5	8356.8	8261.6	8177.6	8152.5	8040.5	7875.4	7895.0	7774.6	7830.6	7771.8
5°	8272.8	8169.2	7925.8	7822.2	7550.8	7427.6	7343.6	7133.8	7035.8	7016.2	6932.3
7.5°	7978.9	7914.6	7609.5	7329.7	7041.4	6795.1	6478.9	6263.3	6109.4	6067.5	5944.4
10°	7746.6	7603.9	7181.3	6755.9	6344.5	5916.4	5504.9	5183.1	5026.4	4844.5	4782.9
12.5°	7517.2	7301.6	6730.8	6185.0	5653.3	5113.1	4615.0	4223.2	3881.7	3800.6	3772.6
15°	7374.4	6999.4	6327.8	5670.0	4914.4	4209.2	3711.0	3453.6	3243.7	3156.9	3218.4
17.5°	7186.9	6750.4	5941.5	5065.5	4234.4	3585.1	3168.0	3008.5	2933.0	2941.4	2916.2
20°	6951.9	6515.2	5435.0	4517.0	3627.1	3109.3	2871.4	2812.6	2823.8	2843.4	2835.0
22.5°	6783.9	6229.8	5068.4	3957.3	3134.5	2846.2	2748.3	2706.3	2742.7	2759.5	2745.4
25°	6655.2	5986.3	4623.4	3461.9	2849.1	2697.9	2653.1	2650.3	2706.3	2728.7	2714.7
27.5°	6537.6	5759.6	4181.2	3084.1	2658.7	2583.1	2569.2	2602.7	2639.1	2661.5	2681.1
30°	6467.7	5586.1	3767.0	2767.9	2563.5	2527.2	2502.0	2532.8	2552.4	2574.7	2563.5
32.5°	6534.8	5463.0	3366.8	2588.8	2485.2	2448.8	2482.4	2462.8	2496.4	2516.0	2485.2
35°	6744.7	5353.8	3081.3	2493.6	2395.7	2409.6	2415.3	2406.9	2420.8	2404.0	2440.4
37.5°	6951.9	5314.6	2818.3	2412.4	2353.6	2353.6	2348.1	2331.3	2359.3	2353.6	2370.4
40°	7214.9	5339.8	2594.3	2325.7	2314.5	2308.9	2286.5	2283.7	2272.5	2275.3	2280.9
42.5°	7444.4	5395.8	2465.6	2269.7	2278.1	2289.3	2247.3	2213.8	2227.7	2199.7	2199.7
45°	7687.9	5446.1	2350.8	2230.5	2222.1	2219.3	2185.8	2166.2	2155.0	2157.8	2183.0
47.5°	8071.3	5518.9	2264.1	2177.3	2183.0	2140.9	2132.6	2107.4	2118.6	2135.4	2138.2
50°	8342.8	5672.9	2196.9	2115.8	2135.4	2107.4	2057.0	2045.8	2045.8	2073.8	2068.2
52.5°	8533.0	5888.3	2132.6	2048.6	2057.0	2034.6	2017.8	1992.7	1975.8	2015.0	2034.6
55°	9115.2	6246.6	2115.8	1992.7	1989.8	1967.4	1936.7	1911.5	1903.1	1908.6	1947.8
57.5°	9059.3	6134.7	2062.6	1894.7	1889.1	1858.3	1827.5	1819.1	1816.3	1821.9	1833.1
60°	7354.9	4531.0	1841.5	1782.8	1774.3	1768.7	1737.9	1704.4	1687.6	1704.4	1690.4
62.5°	4866.9	3033.7	1623.2	1648.4	1654.0	1640.0	1589.7	1556.0	1561.7	1581.2	1550.5
65°	2390.0	1782.8	1472.1	1539.3	1544.8	1505.6	1458.1	1418.9	1399.3	1416.1	1402.1
67.5°	1365.7	1362.9	1349.0	1418.9	1416.1	1377.0	1301.4	1267.8	1234.2	1239.8	1231.4
70°	1158.6	1181.0	1209.0	1251.0	1248.2	1203.4	1113.8	1088.7	1041.1	1035.5	1021.5
72.5°	912.3	951.5	1013.1	1043.9	1018.7	962.7	904.0	862.0	820.0	794.8	803.2
75°	677.3	733.3	766.8	786.4	747.2	716.4	668.8	618.5	568.1	545.7	537.3
77.5°	492.6	509.4	540.2	554.1	528.9	498.1	470.2	419.8	372.2	341.4	333.0
80°	344.2	355.4	377.8	377.8	377.8	363.8	327.4	277.0	246.2	218.3	212.7
82.5°	240.7	251.9	274.3	263.1	260.3	243.5	221.1	181.9	148.4	128.8	123.1
85°	83.9	92.3	111.9	134.3	142.7	139.9	125.9	100.8	78.4	64.3	58.8
87.5°	19.6	19.6	22.4	19.6	19.6	22.4	19.6	19.6	19.6	14.0	11.2
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)