

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: P531218

Luminaire Tested: **GALN-SA6C-730-U-AFL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531218
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-28)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6C-730-U-AFL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34260 lumens
Efficiency: N/A
Efficacy: 106.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

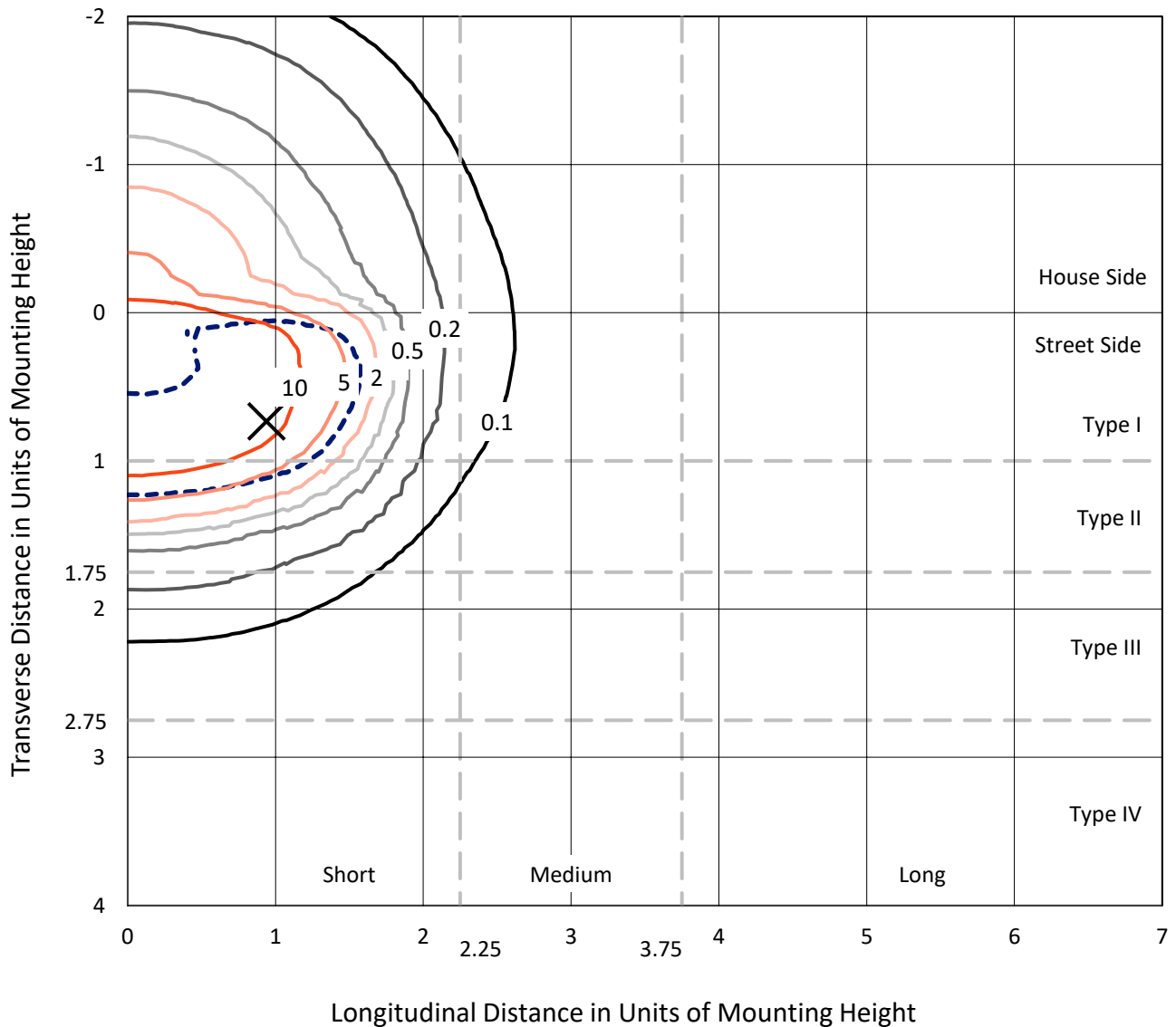
Input Watts (W): 321
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

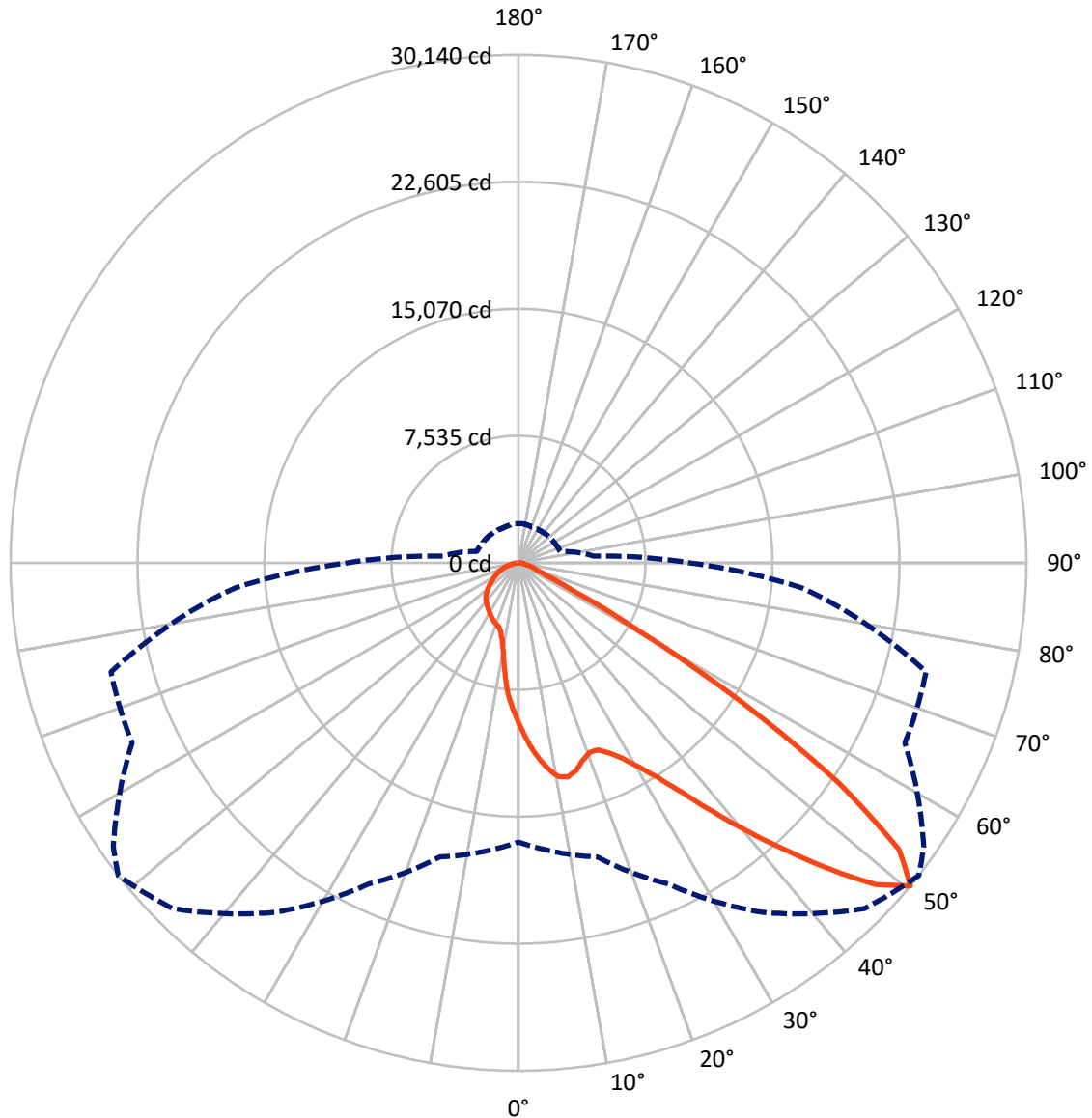
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.8 fc
 Type II - Short - N/A

REPORT NUMBER: P531218
CATALOG NUMBER: GALN-SA6C-730-U-AFL-GRSWH

Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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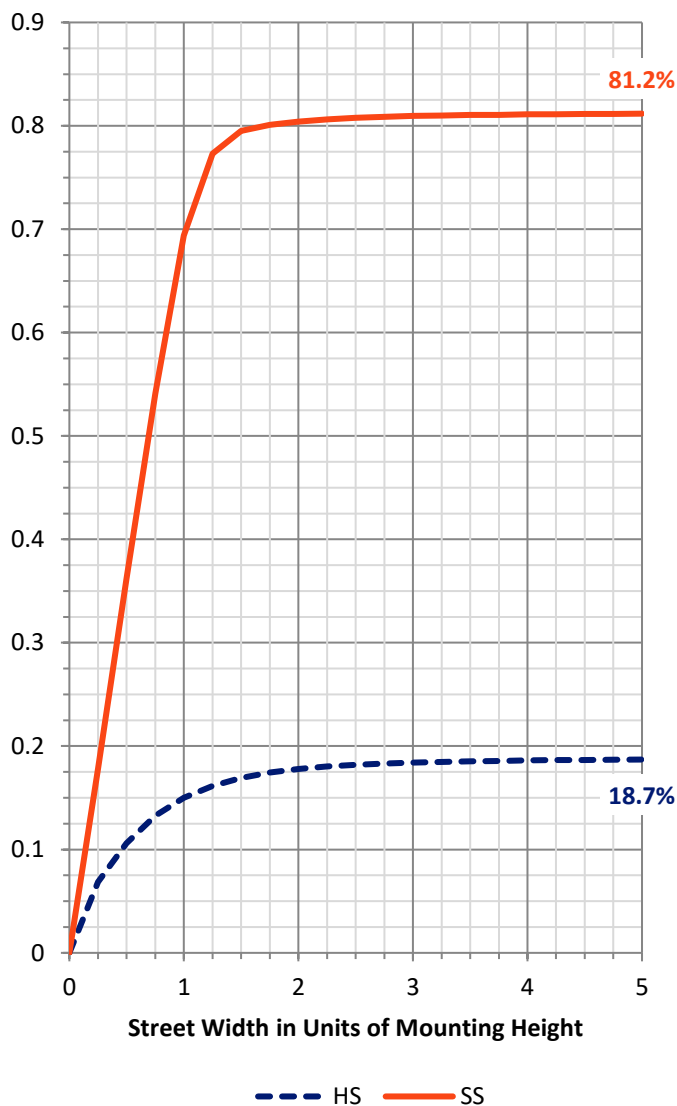
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6440.1	0.0	6440.1
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	27819.9	0.0	27819.9
	% Fixture	81.2	0.0	81.2
Total	Lumens	34260.0	0.0	34260.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	890.1	2.6
10°-20°	2385.7	7.0
20°-30°	4018.7	11.7
30°-40°	6743.6	19.7
40°-50°	10316.1	30.1
50°-60°	7521.3	22.0
60°-70°	1673.9	4.9
70°-80°	603.7	1.8
80°-90°	106.9	0.3
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°	34260.0	100.0
0°-180°	34260.0	100.0

Coefficient of Utilization

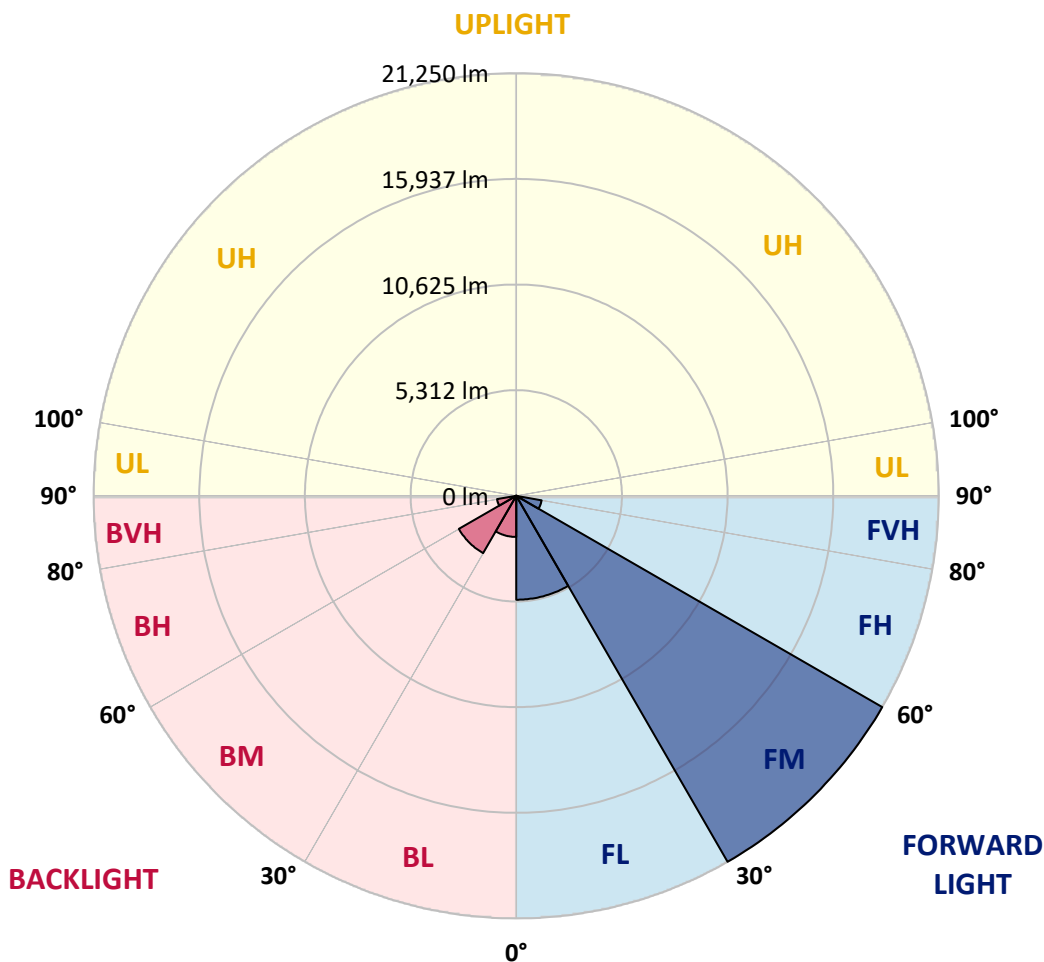


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5225.8	15.3			
FM (30°-60°)	21249.8	62.0			
FH (60°-80°)	1296.4	3.8			G1/1800
FVH (80°-90°)	47.9	0.1			G1/100
BL (0°-30°)	2068.7	6.0	B3/2500		
BM (30°-60°)	3331.2	9.7	B3/5000		
BH (60°-80°)	981.2	2.9	B2/1000		G2/1000
BVH (80°-90°)	59.0	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	9657.3	9657.3	9657.3	9657.3	9657.3	9657.3	9657.3	9657.3	9657.3	9657.3	9657.3
2.5°	11370.8	11152.0	11176.7	11019.8	10850.6	10801.0	10627.6	10462.4	10338.6	10074.3	9830.7
5°	12427.8	12361.7	12262.6	12138.8	12010.8	11697.0	11519.4	11313.0	10858.8	10450.1	10045.4
7.5°	12580.5	12568.1	12621.8	12621.8	12667.2	12547.5	12295.6	12151.1	11668.1	11003.3	10251.9
10°	11507.0	11544.2	11804.3	12142.9	12613.6	12939.7	12898.5	12861.3	12332.8	11424.5	10495.5
12.5°	10652.4	10569.8	10722.6	11011.6	11717.6	12506.2	13038.8	13043.0	12906.7	12097.5	10673.0
15°	10169.3	10227.1	10268.4	10404.6	10937.3	11849.7	12787.0	13063.6	13662.3	12572.3	10953.8
17.5°	10479.0	10284.9	10276.7	10309.7	10582.2	11267.6	12320.4	12795.2	14075.2	13183.3	11300.6
20°	10883.6	10879.5	10763.9	10722.6	10718.4	11329.5	12014.9	12659.0	14294.0	13976.1	11651.5
22.5°	11593.7	11593.7	11403.8	11313.0	11118.9	11618.5	12056.2	12493.8	14657.3	14521.1	11820.8
25°	12782.8	12588.8	12262.6	12039.7	11928.2	12105.7	12493.8	12886.1	14975.3	15099.1	12171.8
27.5°	13881.1	13575.6	13414.6	13030.6	12881.9	12778.7	13133.8	13530.2	15346.8	15999.2	12361.7
30°	15128.0	15074.3	14785.3	14289.9	13922.4	13732.5	14058.7	14450.9	16028.1	16919.9	12799.4
32.5°	17357.6	16870.4	16478.1	15871.2	15272.5	14867.9	15190.0	15450.1	17159.4	17881.9	13278.3
35°	19764.7	19607.8	18930.7	17836.5	16919.9	16556.6	16746.5	16940.6	18476.5	19351.8	14083.4
37.5°	22130.5	21915.8	21358.4	20437.7	19322.9	18583.8	18720.1	18947.2	19954.6	21333.6	15066.1
40°	23831.6	23567.3	23286.6	23150.3	22043.8	21032.2	20953.8	21011.6	21953.0	23191.6	16156.1
42.5°	23955.5	24281.6	24368.3	24917.5	24657.4	23827.5	23344.4	23356.8	23860.5	25028.9	17258.5
45°	23695.3	23393.9	24033.9	25532.7	26391.5	26779.6	25966.2	25863.0	25041.3	26094.2	17807.6
47.5°	20966.2	21048.8	22130.5	24500.5	26981.9	28716.0	28526.1	28183.4	25673.0	26057.0	17720.9
50°	16573.1	17072.7	18076.0	21028.1	25330.4	29021.5	30140.4	29347.7	25297.3	25033.1	16837.4
52.5°	11036.4	11242.8	11903.4	15714.3	20367.5	25941.4	28282.5	28464.1	24950.5	23691.2	15718.4
55°	4913.3	4896.8	5825.8	8208.1	12778.7	19739.9	23109.0	24215.6	23616.9	22324.6	14628.4
57.5°	2080.9	2151.1	2531.0	3546.7	6284.1	11911.7	15656.5	16626.8	18162.7	18332.0	11222.2
60°	1407.9	1416.2	1519.4	1775.4	2630.1	5594.6	8212.2	9376.6	10474.8	10400.5	5953.8
62.5°	1106.5	1135.4	1213.9	1317.1	1560.7	2539.2	3674.7	4322.9	4393.1	3695.3	2258.5
65°	945.5	949.6	1028.1	1114.8	1222.1	1478.1	1771.3	1804.3	1824.9	1758.9	1659.8
67.5°	780.3	788.6	850.5	949.6	1048.7	1131.3	1213.9	1255.2	1350.1	1535.9	1511.2
70°	619.3	631.7	685.4	768.0	858.8	908.3	1011.6	1048.7	1135.4	1279.9	1337.7
72.5°	470.7	474.8	520.2	578.0	660.6	710.2	796.9	838.2	896.0	1019.8	1073.5
75°	338.6	351.0	384.0	412.9	425.3	458.3	540.9	586.3	668.9	722.5	726.7
77.5°	177.5	185.8	194.1	194.1	235.3	297.3	351.0	375.7	433.5	474.8	454.2
80°	70.2	74.3	95.0	128.0	165.2	214.7	251.9	264.2	313.8	338.6	351.0
82.5°	41.3	45.4	61.9	90.8	119.7	152.8	181.7	194.1	227.1	256.0	264.2
85°	20.6	24.8	37.2	57.8	78.4	95.0	90.8	86.7	86.7	82.6	86.7
87.5°	8.3	8.3	12.4	12.4	12.4	16.5	20.6	20.6	20.6	24.8	24.8
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°	9657.3	9657.3	9657.3	9657.3	9657.3	9657.3	9657.3	9657.3	9657.3	9657.3	9657.3
2.5°	9669.7	9504.6	9351.8	9071.0	8765.5	8678.8	8323.7	8195.7	8104.9	7997.5	7964.5
5°	9719.3	9500.4	9009.1	8443.5	7993.4	7415.4	7035.5	6626.8	6329.5	6255.2	6234.5
7.5°	9822.5	9446.8	8600.3	7745.7	6825.0	6040.5	5441.8	5119.7	4834.9	4818.3	4789.4
10°	9938.1	9285.7	8154.4	6812.6	5635.8	4909.2	4550.0	4409.6	4339.4	4322.9	4314.6
12.5°	10033.0	9252.7	7654.8	5904.2	4793.6	4355.9	4248.6	4236.2	4265.1	4273.3	4289.9
15°	10074.3	9120.6	7052.0	5090.8	4269.2	4108.2	4153.6	4203.1	4223.8	4277.5	4236.2
17.5°	10152.8	8951.3	6308.8	4446.7	3976.1	4005.0	4083.4	4141.2	4174.2	4211.4	4157.7
20°	10194.1	8798.5	5611.1	4062.8	3872.8	3926.5	4033.9	4079.3	4120.6	4137.1	4075.2
22.5°	10156.9	8484.7	4995.9	3753.1	3773.7	3843.9	3938.9	3988.4	3963.7	3897.6	3860.5
25°	10057.8	8043.0	4355.9	3554.9	3633.4	3757.2	3831.6	3794.4	3749.0	3711.8	3699.4
27.5°	10053.7	7502.1	3893.5	3373.3	3513.6	3682.9	3658.1	3625.1	3645.8	3616.9	3583.8
30°	10074.3	6977.7	3513.6	3270.0	3426.9	3509.5	3538.4	3505.4	3530.1	3476.5	3493.0
32.5°	9967.0	6465.7	3265.9	3150.3	3323.7	3319.6	3414.5	3439.3	3381.5	3270.0	3286.5
35°	10012.4	6052.9	3055.3	3096.6	3208.1	3208.1	3282.4	3253.5	3100.7	3034.7	3051.2
37.5°	10326.2	5648.2	2952.1	3022.3	3096.6	3129.7	3104.9	2981.0	2943.9	2943.9	2952.1
40°	10623.5	5301.4	2890.2	3005.8	2993.4	3014.0	2832.4	2844.8	2844.8	2848.9	2828.2
42.5°	10887.7	5066.1	2840.6	2906.7	2927.3	2820.0	2708.5	2696.1	2725.0	2720.9	2704.4
45°	10982.7	4872.0	2770.4	2795.2	2811.7	2634.2	2580.5	2555.7	2588.8	2601.2	2617.7
47.5°	10619.3	4711.0	2692.0	2642.4	2609.4	2493.8	2423.6	2378.2	2419.5	2489.7	2506.2
50°	10152.8	4500.4	2568.1	2473.2	2403.0	2353.4	2303.9	2258.5	2287.4	2336.9	2324.5
52.5°	9463.3	4170.1	2411.2	2312.1	2192.4	2204.8	2159.4	2134.6	2151.1	2151.1	2138.7
55°	8480.6	3426.9	2147.0	2076.8	1977.7	2010.7	2019.0	1986.0	1952.9	1981.8	1957.1
57.5°	5788.6	2419.5	1915.8	1915.8	1816.7	1862.1	1858.0	1779.5	1701.1	1709.3	1692.8
60°	3348.5	1928.2	1767.1	1750.6	1647.4	1684.6	1692.8	1639.1	1519.4	1527.7	1511.2
62.5°	1903.4	1647.4	1544.2	1519.4	1498.8	1531.8	1531.8	1461.6	1358.4	1366.6	1350.1
65°	1618.5	1527.7	1379.0	1374.9	1366.6	1374.9	1341.9	1267.5	1176.7	1139.6	1143.7
67.5°	1469.9	1412.1	1267.5	1230.4	1205.6	1201.5	1139.6	1069.4	1028.1	995.0	990.9
70°	1288.2	1242.8	1135.4	1085.9	1061.1	1003.3	941.4	896.0	838.2	821.6	838.2
72.5°	1019.8	1015.7	974.4	920.7	867.1	821.6	768.0	706.0	652.4	640.0	611.1
75°	706.0	714.3	722.5	714.3	668.9	611.1	549.1	499.6	433.5	396.4	388.1
77.5°	462.4	474.8	487.2	470.7	441.8	388.1	346.8	284.9	235.3	206.4	202.3
80°	338.6	355.1	363.3	351.0	317.9	276.6	231.2	181.7	144.5	119.7	119.7
82.5°	260.1	276.6	284.9	264.2	231.2	198.2	165.2	128.0	99.1	78.4	74.3
85°	90.8	86.7	103.2	107.3	128.0	119.7	99.1	74.3	57.8	41.3	37.2
87.5°	24.8	24.8	28.9	28.9	24.8	20.6	20.6	20.6	16.5	12.4	12.4
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)