

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: P530522

Luminaire Tested: **GALN-SA5D-730-U-SL3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530522
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-SA5D-730-U-SL3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 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: 29848 lumens
Efficiency: N/A
Efficacy: 96.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

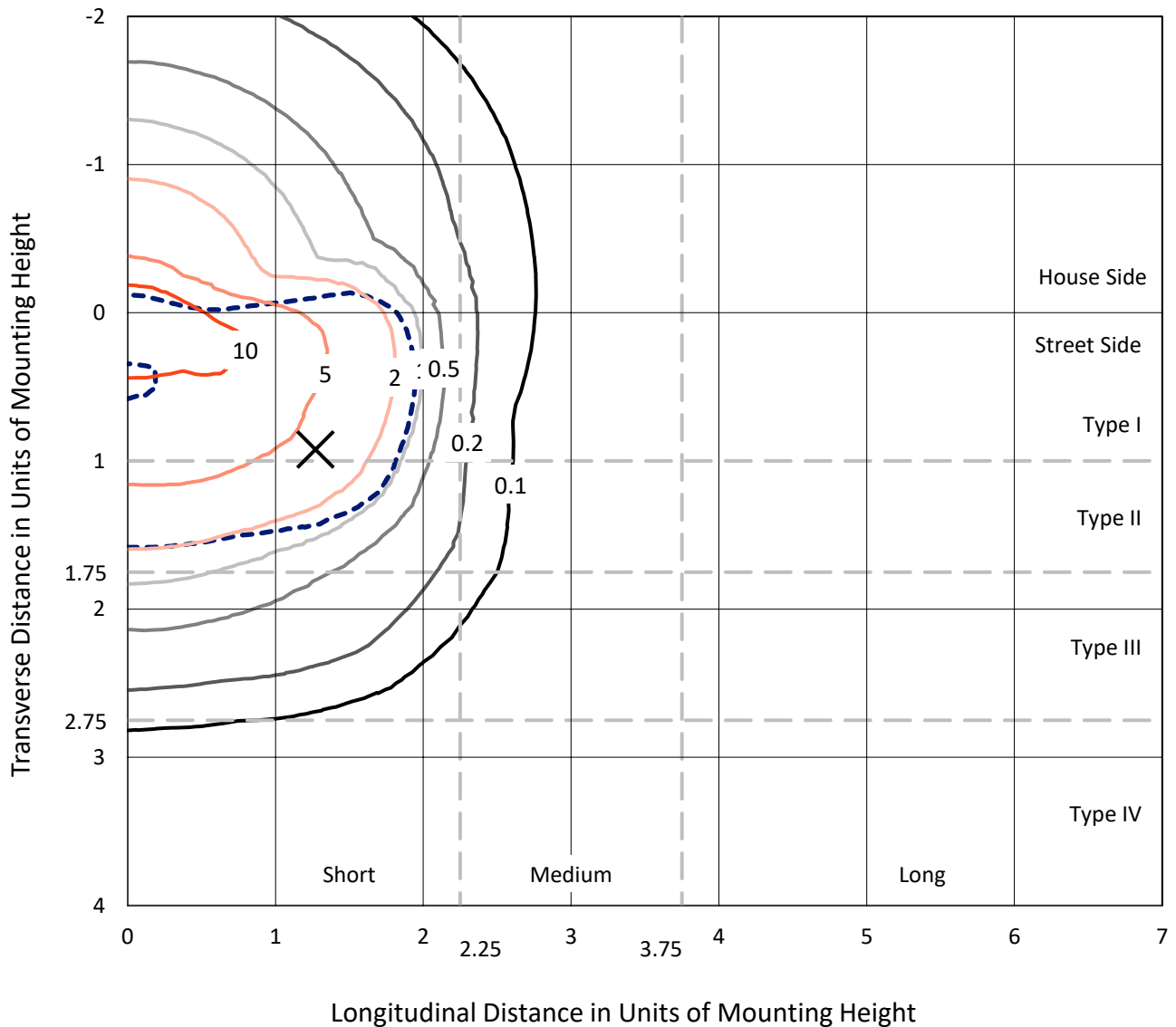
Input Watts (W): 309
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

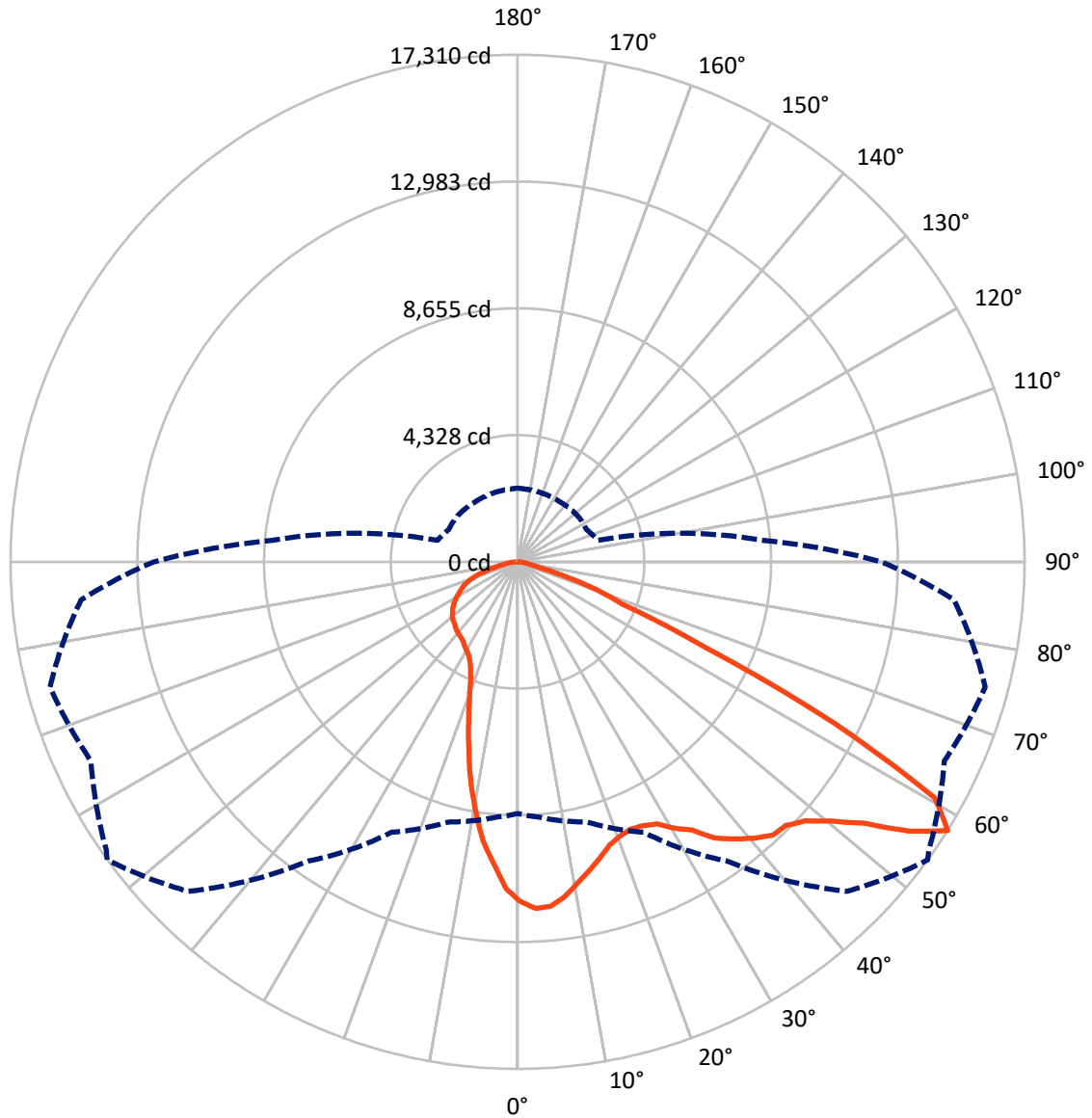
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.6 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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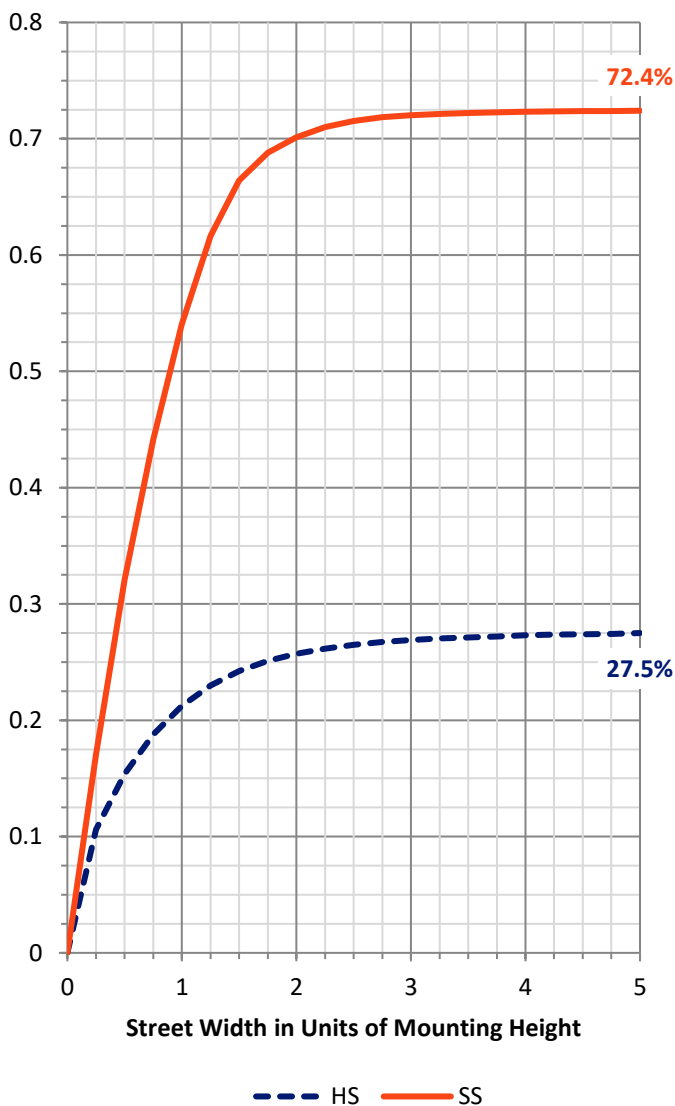
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8257.6	0.0	8257.6
	% Fixture	27.7	0.0	27.7
Street Side	Lumens	21590.4	0.0	21590.4
	% Fixture	72.3	0.0	72.3
Total	Lumens	29848.0	0.0	29848.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1000.5	3.4
10°-20°	2316.6	7.8
20°-30°	3254.8	10.9
30°-40°	4550.3	15.2
40°-50°	6160.2	20.6
50°-60°	7503.4	25.1
60°-70°	3908.1	13.1
70°-80°	1001.4	3.4
80°-90°	152.8	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°	29848.0	100.0
0°-180°	29848.0	100.0

Coefficient of Utilization



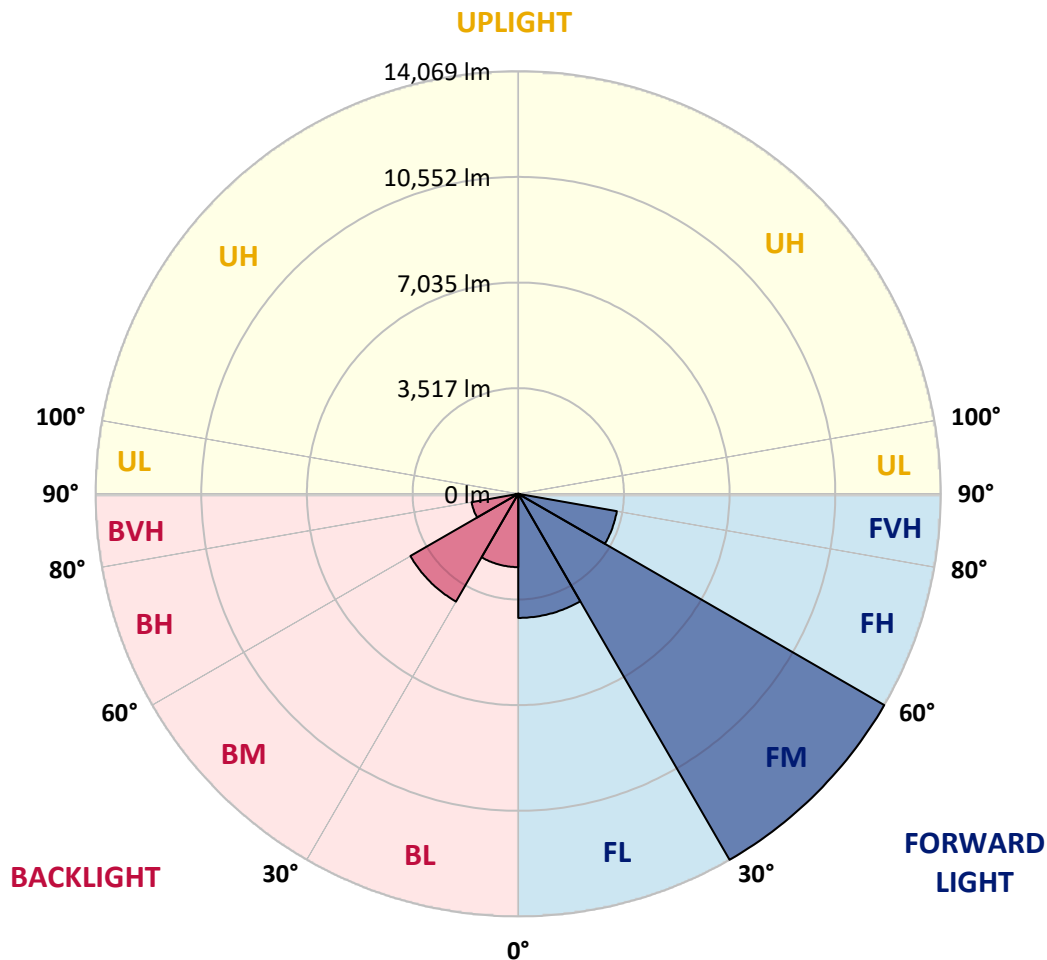
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4131.4	13.8			
FM (30°-60°)	14069.4	47.1			
FH (60°-80°)	3331.9	11.2			G2/5000
FVH (80°-90°)	57.7	0.2			G1/100
BL (0°-30°)	2440.5	8.2	B3/2500		
BM (30°-60°)	4144.4	13.9	B3/5000		
BH (60°-80°)	1577.6	5.3	B3/2500		G3/2500
BVH (80°-90°)	95.0	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°	11601.6	11601.6	11601.6	11601.6	11601.6	11601.6	11601.6	11601.6	11601.6	11601.6	11601.6
2.5°	11931.5	11885.5	11893.1	11954.5	11877.8	11847.1	11847.1	11697.5	11709.0	11605.4	11578.6
5°	11655.3	11547.9	11620.8	11712.8	11728.2	11758.9	11808.7	11770.4	11663.0	11551.7	11371.4
7.5°	10934.0	11029.9	11056.8	11122.0	11260.1	11386.7	11544.0	11436.6	11432.8	11321.5	11214.1
10°	10301.0	10243.5	10389.2	10485.2	10715.3	10926.4	11168.1	11156.5	11214.1	11087.5	10903.3
12.5°	9671.8	9625.8	9694.8	9913.5	10235.8	10542.7	10830.4	10723.0	11029.9	11006.9	10611.8
15°	9004.3	9038.8	9138.5	9341.9	9763.9	10132.2	10496.7	10500.5	10772.9	10865.0	10335.5
17.5°	8536.2	8497.8	8624.5	8927.5	9303.5	9744.7	10159.1	10243.5	10661.6	10715.3	10251.1
20°	8187.1	8240.8	8405.8	8559.2	8992.8	9526.0	9994.1	10024.8	10638.6	10784.4	10116.9
22.5°	8102.7	8072.0	8125.7	8375.1	8731.9	9311.2	9905.8	10020.9	10634.8	10761.4	9863.6
25°	8014.4	8114.2	8110.4	8359.7	8620.6	9138.5	9978.7	10105.3	10838.1	10880.3	9898.2
27.5°	8213.9	8202.4	8309.9	8329.0	8651.3	9184.6	10132.2	10228.1	11175.7	11141.2	9925.0
30°	8413.4	8355.9	8421.1	8647.5	8797.1	9449.3	10554.2	10546.5	11613.1	11590.1	10009.4
32.5°	8659.0	8632.1	8674.3	8873.8	9127.0	9802.3	10911.0	11137.4	12058.1	12203.9	10301.0
35°	8705.0	8816.3	8916.0	9184.6	9545.2	10373.9	11582.4	11770.4	12572.2	13028.8	10857.3
37.5°	8996.6	9038.8	9272.8	9748.5	10078.5	11137.4	12008.2	12127.2	13040.3	13558.2	11444.3
40°	9307.3	9357.2	9710.2	10208.9	10661.6	11636.1	12407.2	12445.6	13189.9	13964.9	11827.9
42.5°	9729.4	9775.4	10124.5	10749.9	11356.0	12062.0	12760.2	12802.4	13178.4	14432.9	12437.9
45°	10166.7	10278.0	10688.5	11398.2	11943.0	12560.7	12840.8	13013.4	13285.8	14851.1	12932.8
47.5°	10780.6	10884.2	11221.8	11916.2	12553.0	12998.1	13212.9	13381.7	13542.8	15215.6	13251.3
50°	11432.8	11452.0	11862.5	12491.6	12959.7	13493.0	13907.3	13964.9	13880.5	15637.6	13792.2
52.5°	11912.3	11973.7	12292.1	12906.0	13604.2	14260.3	14828.1	14889.5	14724.5	15794.9	13976.4
55°	11118.2	11083.6	11601.6	12418.8	14037.8	15403.5	16228.4	16274.4	15338.3	16282.1	14578.7
57.5°	8593.8	8758.7	9199.9	10185.9	12472.5	15910.0	17310.3	17145.3	16074.9	16527.6	14962.3
60°	6245.8	6207.5	6502.9	7162.7	9399.4	13711.7	16366.5	16535.3	15472.6	14897.1	12338.2
62.5°	5087.2	5033.5	5056.5	5079.5	6065.5	9100.2	12115.7	12111.8	11916.2	10707.7	8321.4
65°	4066.7	4193.3	4204.8	4377.4	4504.1	5436.3	7020.8	7396.8	6441.5	5282.9	3832.7
67.5°	3065.4	3019.3	3172.8	3786.6	4024.5	3924.7	3832.7	3874.9	2754.6	1987.3	1872.2
70°	1807.0	1787.8	1972.0	2639.5	3314.7	3119.1	2888.9	2892.7	1891.4	1388.8	1546.1
72.5°	989.8	986.0	1024.3	1338.9	1883.7	1956.6	1734.1	1787.8	1127.9	1124.1	1208.5
75°	552.5	540.9	529.4	590.8	679.1	717.4	732.8	740.4	775.0	867.0	901.6
77.5°	203.3	195.7	195.7	226.4	287.7	360.6	456.5	464.2	548.6	629.2	663.7
80°	69.1	76.7	103.6	142.0	191.8	257.0	310.8	318.4	387.5	441.2	452.7
82.5°	42.2	46.0	69.1	99.7	138.1	180.3	230.2	234.0	287.7	322.3	337.6
85°	19.2	23.0	38.4	61.4	88.2	118.9	122.8	122.8	118.9	122.8	115.1
87.5°	0.0	0.0	7.7	7.7	7.7	11.5	15.3	11.5	19.2	23.0	23.0
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°	11601.6	11601.6	11601.6	11601.6	11601.6	11601.6	11601.6	11601.6	11601.6	11601.6	11601.6
2.5°	11498.0	11455.8	11325.3	11210.3	11175.7	11022.3	10795.9	10822.8	10657.8	10734.5	10654.0
5°	11340.7	11198.7	10865.0	10723.0	10350.9	10182.1	10067.0	9779.2	9645.0	9618.1	9503.0
7.5°	10937.9	10849.6	10431.4	10047.8	9652.6	9315.0	8881.5	8586.1	8375.1	8317.5	8148.7
10°	10619.4	10423.8	9844.5	9261.3	8697.3	8110.4	7546.4	7105.2	6890.4	6641.0	6556.6
12.5°	10304.8	10009.4	9226.8	8478.7	7749.7	7009.3	6326.4	5789.3	5321.2	5210.0	5171.6
15°	10109.2	9595.1	8674.3	7772.7	6736.9	5770.1	5087.2	4734.2	4446.5	4327.6	4412.0
17.5°	9852.1	9253.6	8144.9	6944.1	5804.6	4914.6	4342.9	4124.2	4020.7	4032.2	3997.6
20°	9529.9	8931.4	7450.5	6192.1	4972.1	4262.4	3936.2	3855.7	3871.0	3897.9	3886.4
22.5°	9299.7	8540.0	6947.9	5424.8	4296.9	3901.7	3767.4	3709.9	3759.8	3782.8	3763.6
25°	9123.2	8206.3	6337.9	4745.8	3905.6	3698.4	3637.0	3633.2	3709.9	3740.6	3721.4
27.5°	8962.1	7895.5	5731.7	4227.8	3644.7	3541.1	3521.9	3567.9	3617.8	3648.5	3675.4
30°	8866.2	7657.7	5163.9	3794.3	3514.2	3464.4	3429.8	3472.0	3498.9	3529.6	3514.2
32.5°	8958.2	7488.8	4615.3	3548.8	3406.8	3356.9	3403.0	3376.1	3422.2	3449.0	3406.8
35°	9246.0	7339.2	4224.0	3418.3	3284.0	3303.2	3310.9	3299.4	3318.6	3295.6	3345.4
37.5°	9529.9	7285.5	3863.4	3307.1	3226.5	3226.5	3218.8	3195.8	3234.2	3226.5	3249.5
40°	9890.5	7320.0	3556.4	3188.1	3172.8	3165.1	3134.4	3130.6	3115.2	3119.1	3126.7
42.5°	10205.1	7396.8	3380.0	3111.4	3122.9	3138.3	3080.7	3034.7	3053.9	3015.5	3015.5
45°	10538.9	7465.8	3222.7	3057.7	3046.2	3042.3	2996.3	2969.5	2954.1	2957.9	2992.5
47.5°	11064.5	7565.6	3103.7	2984.8	2992.5	2934.9	2923.4	2888.9	2904.2	2927.2	2931.1
50°	11436.6	7776.6	3011.7	2900.4	2927.2	2888.9	2819.8	2804.5	2804.5	2842.8	2835.2
52.5°	11697.5	8072.0	2923.4	2808.3	2819.8	2789.1	2766.1	2731.6	2708.6	2762.3	2789.1
55°	12495.5	8563.1	2900.4	2731.6	2727.8	2697.1	2654.9	2620.3	2608.8	2616.5	2670.2
57.5°	12418.8	8409.6	2827.5	2597.3	2589.6	2547.4	2505.2	2493.7	2489.9	2497.6	2512.9
60°	10082.3	6211.3	2524.4	2443.9	2432.3	2424.7	2382.5	2336.4	2313.4	2336.4	2317.2
62.5°	6671.7	4158.8	2225.2	2259.7	2267.4	2248.2	2179.1	2133.1	2140.8	2167.6	2125.4
65°	3276.4	2443.9	2018.0	2110.1	2117.7	2064.0	1998.8	1945.1	1918.2	1941.3	1922.1
67.5°	1872.2	1868.4	1849.2	1945.1	1941.3	1887.6	1784.0	1737.9	1691.9	1699.6	1688.1
70°	1588.3	1619.0	1657.4	1714.9	1711.1	1649.7	1526.9	1492.4	1427.2	1419.5	1400.3
72.5°	1250.7	1304.4	1388.8	1431.0	1396.5	1319.8	1239.2	1181.6	1124.1	1089.6	1101.1
75°	928.4	1005.2	1051.2	1078.1	1024.3	982.1	916.9	847.9	778.8	748.1	736.6
77.5°	675.2	698.2	740.4	759.6	725.1	682.9	644.5	575.5	510.3	468.1	456.5
80°	471.9	487.2	517.9	517.9	517.9	498.7	448.9	379.8	337.6	299.2	291.6
82.5°	329.9	345.3	376.0	360.6	356.8	333.8	303.1	249.4	203.3	176.5	168.8
85°	115.1	126.6	153.5	184.2	195.7	191.8	172.6	138.1	107.4	88.2	80.6
87.5°	26.9	26.9	30.7	26.9	26.9	30.7	26.9	26.9	26.9	19.2	15.3
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)