

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: P532869

Luminaire Tested: **GALN-SA8B-730-U-T2R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532869
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-9)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8B-730-U-T2R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27675.1 lumens
Efficiency: N/A
Efficacy: 85.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G1

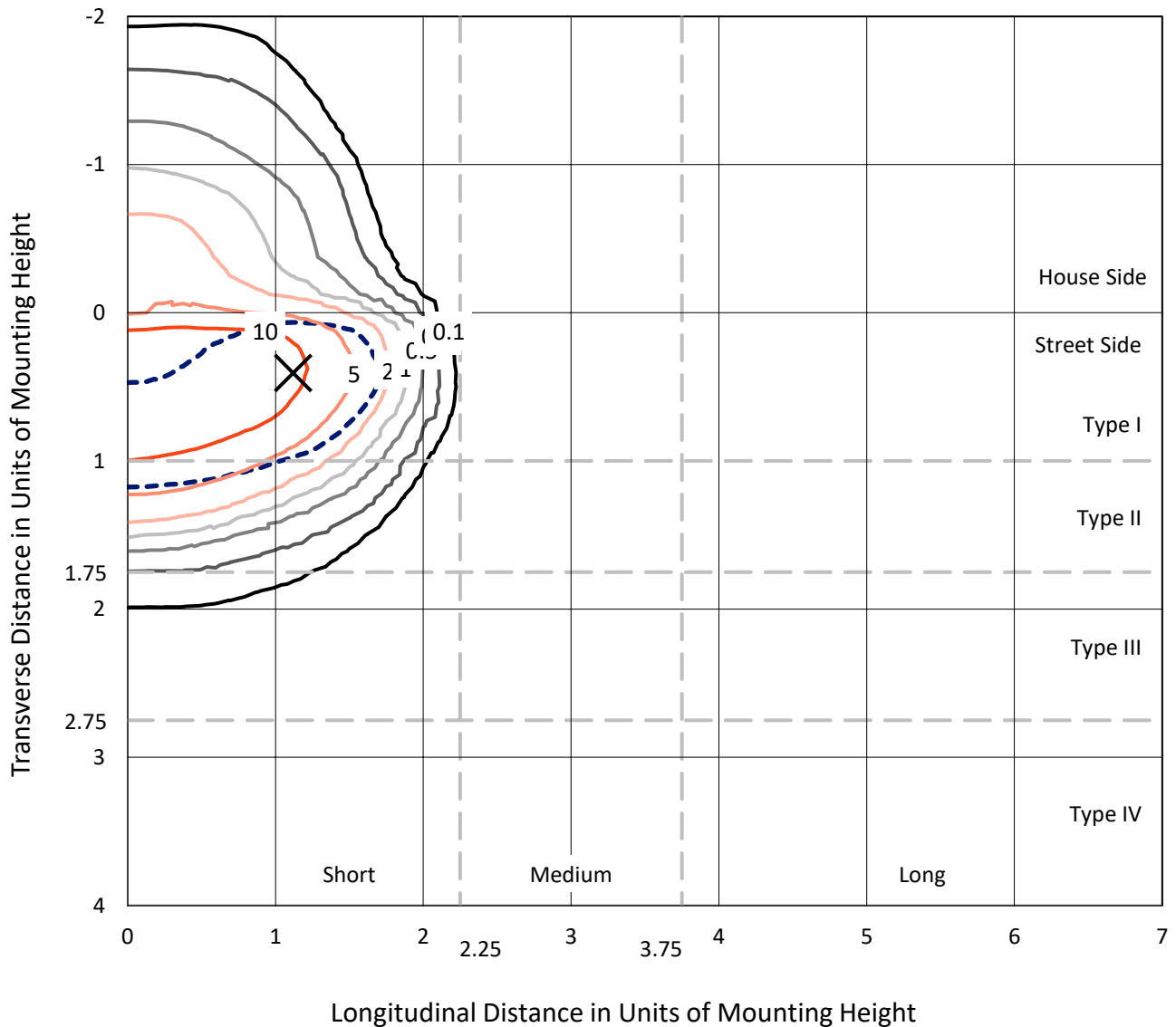
Input Watts (W): 325
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

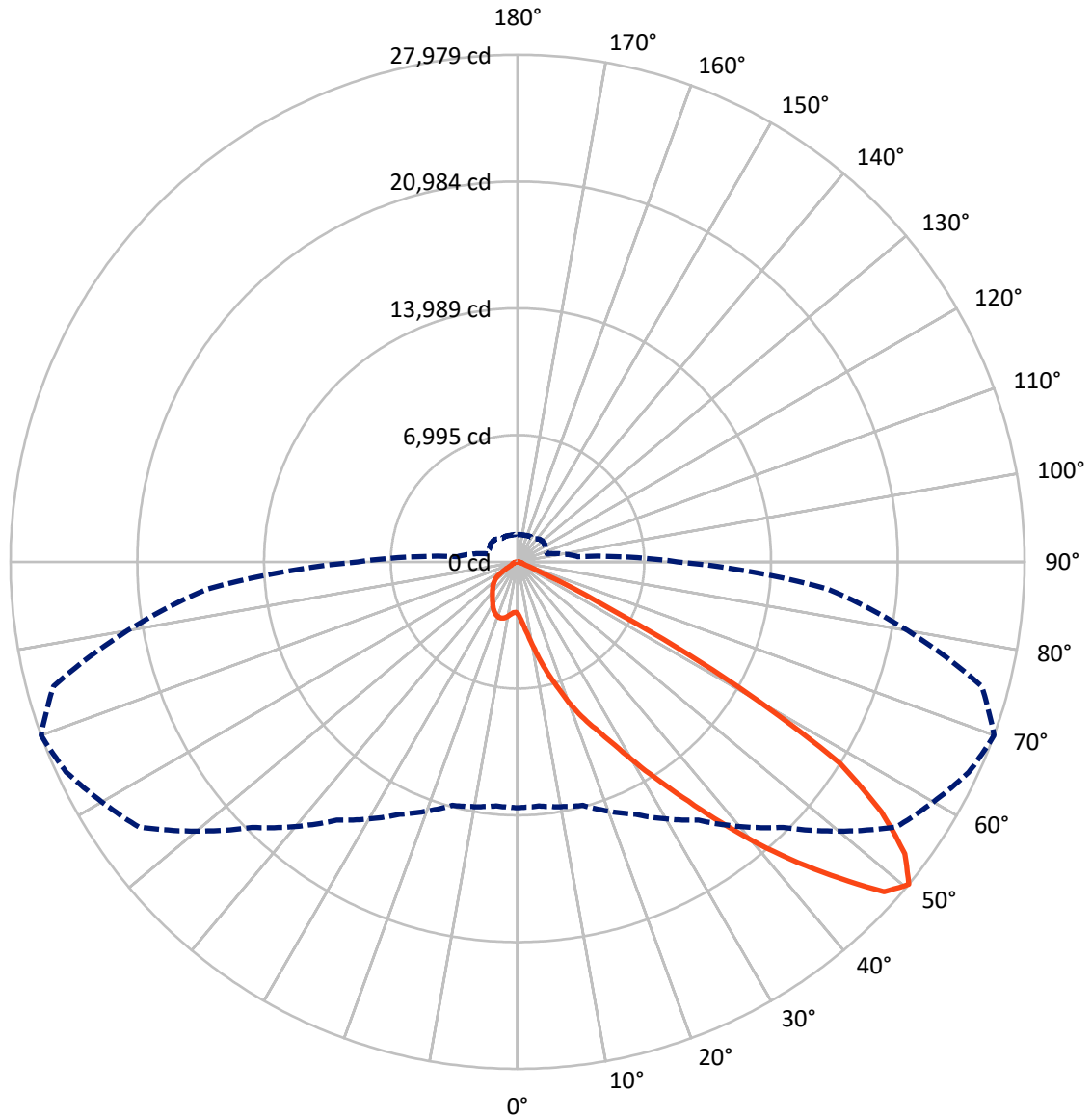
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.4 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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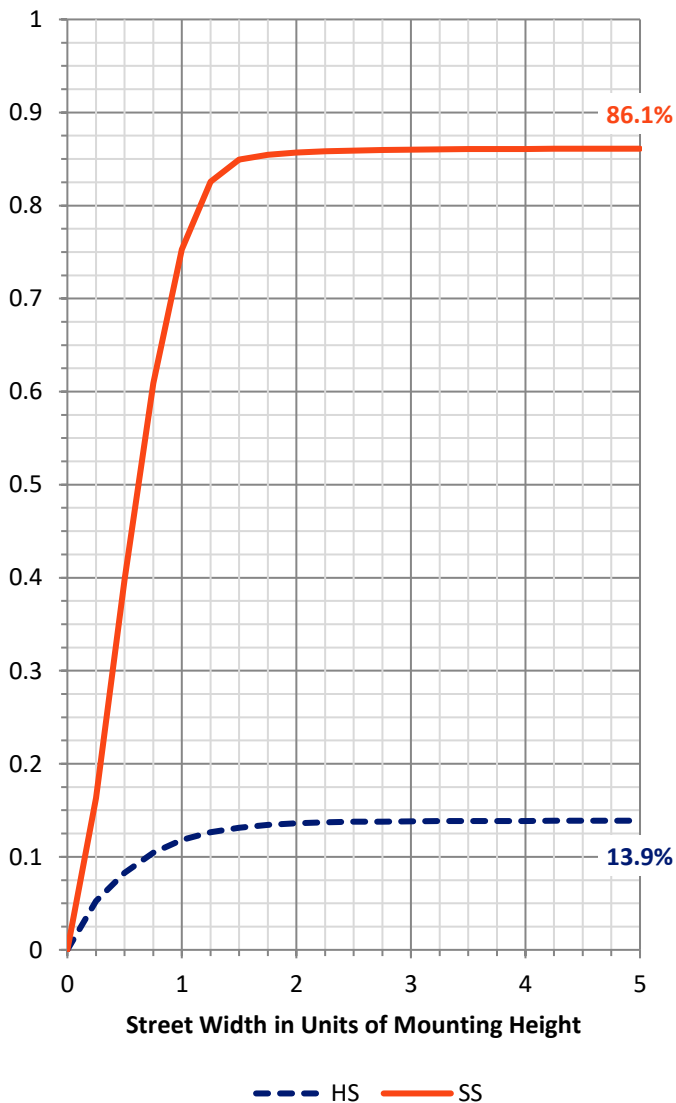
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3865.0	0.0	3865.0
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	23810.0	0.0	23810.0
	% Fixture	86.0	0.0	86.0
Total	Lumens	27675.1	0.0	27675.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	372.8	1.3
10°-20°	1612.4	5.8
20°-30°	3382.6	12.2
30°-40°	5830.5	21.1
40°-50°	8521.2	30.8
50°-60°	6636.6	24.0
60°-70°	1124.4	4.1
70°-80°	154.5	0.6
80°-90°	40.0	0.1
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°	27675.1	100.0
0°-180°	27675.1	100.0

Coefficient of Utilization



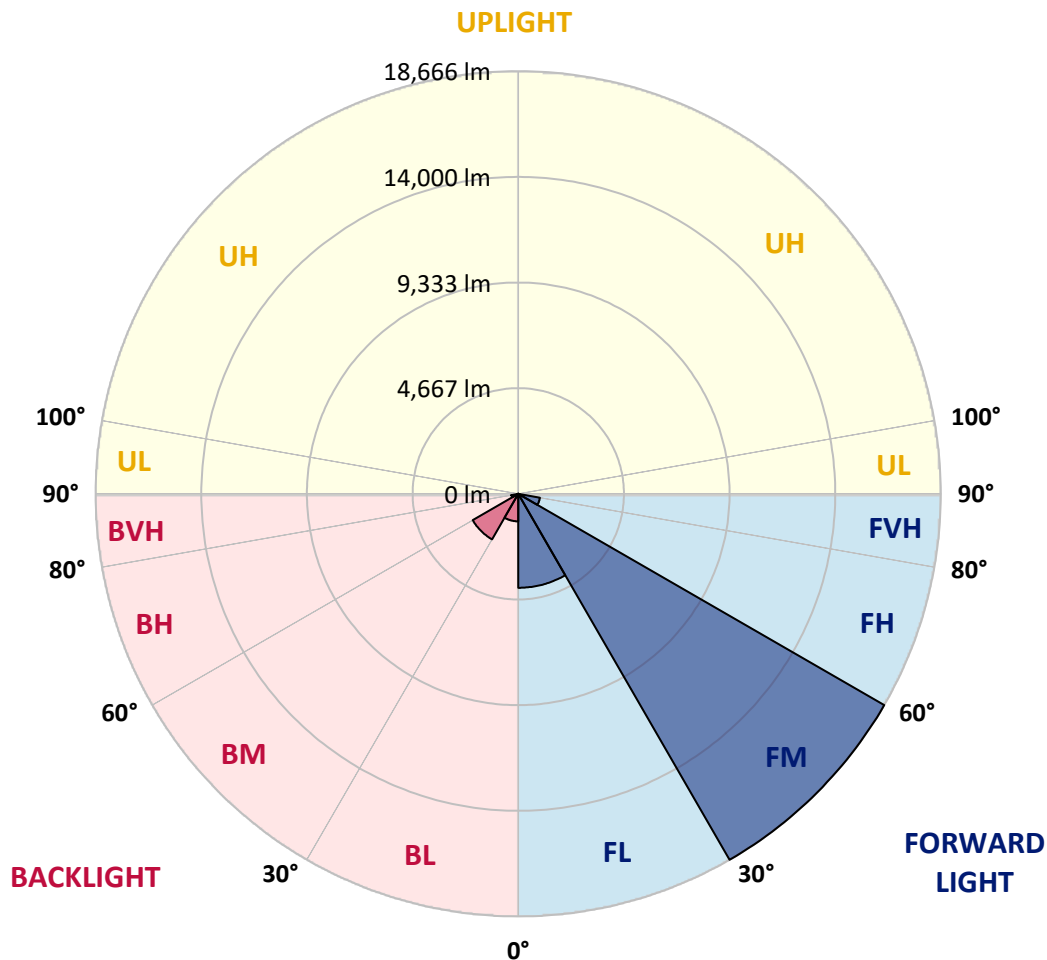
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4151.6	15.0			
FM (30°-60°)	18666.3	67.4			
FH (60°-80°)	973.6	3.5			G1/1800
FVH (80°-90°)	18.5	0.1			G1/100
BL (0°-30°)	1216.2	4.4	B3/2500		
BM (30°-60°)	2322.0	8.4	B2/2500		
BH (60°-80°)	305.3	1.1	B1/500		G1/500
BVH (80°-90°)	21.5	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	2866.6	2866.6	2866.6	2866.6	2866.6	2866.6	2866.6	2866.6	2866.6	2866.6	2866.6
2.5°	3753.9	3726.6	3667.4	3558.2	3512.7	3403.5	3339.8	3216.9	3139.6	3053.1	2957.6
5°	5287.3	5146.2	5059.8	4936.9	4577.4	4354.5	3985.9	3672.0	3526.4	3367.1	3148.7
7.5°	6870.7	6779.7	6661.4	6397.5	6151.8	5687.7	5055.2	4363.6	4067.8	3794.8	3362.5
10°	8181.1	7926.3	7912.7	7717.0	7448.6	6893.5	6133.6	5273.6	4745.8	4345.4	3667.4
12.5°	9095.7	8863.7	8968.3	8945.6	8695.3	8185.7	7307.5	6170.0	5619.4	4996.0	3981.4
15°	9928.4	9832.8	9801.0	9773.7	9673.6	9295.9	8508.8	7262.0	6465.7	5715.0	4336.3
17.5°	10742.9	10497.2	10615.5	10638.2	10629.1	10287.9	9550.7	8299.4	7362.1	6474.8	4709.4
20°	11466.3	11489.1	11329.8	11298.0	11270.7	11257.0	10538.1	9327.8	8463.3	7271.1	5196.3
22.5°	12394.6	12235.3	12376.4	12285.4	12107.9	11998.7	11448.1	10237.8	9418.8	8231.2	5692.2
25°	13491.2	13618.6	13286.4	13250.0	13054.3	12676.7	12180.7	11257.0	10337.9	9123.0	6229.1
27.5°	14842.5	14619.6	14533.1	14332.9	13978.0	13818.8	13236.3	12308.1	11448.1	10060.3	6747.9
30°	16002.8	15943.7	15511.4	15274.8	14965.4	14960.8	14146.4	13732.3	12895.1	11530.0	7462.2
32.5°	16949.3	16689.9	16530.6	16366.8	16116.6	16184.8	15497.8	15279.4	14437.6	12895.1	8304.0
35°	17581.7	17395.2	17299.6	17049.4	16976.6	17281.4	16994.8	16903.8	16212.1	14815.2	9291.4
37.5°	17781.9	17841.1	17822.9	17508.9	17663.6	18487.2	18855.8	18619.2	18255.1	16840.0	10360.7
40°	17959.4	18000.3	17909.3	18277.9	18719.3	19656.6	20989.8	20598.5	20462.0	18892.2	11848.6
42.5°	18059.5	18027.6	18027.6	18664.7	19333.5	21217.3	23051.0	22791.6	22687.0	21076.2	13568.5
45°	17627.2	17317.8	17650.0	18514.5	19861.3	21986.3	24698.1	25057.6	24907.4	23674.4	15579.7
47.5°	16011.9	16203.0	16389.6	17545.3	19219.8	21749.6	25708.3	26932.2	27209.8	25858.4	16899.2
50°	13568.5	13527.6	13914.3	15370.4	17404.3	20730.4	25512.6	27473.7	27978.8	26513.6	17176.8
52.5°	9869.2	10169.6	10588.2	12035.1	14446.7	18091.3	22987.3	26076.8	26750.2	25708.3	16994.8
55°	5746.8	5414.7	6356.5	7580.5	9855.6	13645.9	19433.6	23114.7	24361.4	24243.1	16075.6
57.5°	2302.4	2229.6	2552.6	3439.9	5141.7	8458.7	14132.7	18992.3	20989.8	22204.7	14128.2
60°	1010.1	987.4	1160.3	1401.4	2102.2	3899.5	7730.7	11812.2	13896.1	15516.0	9723.6
62.5°	728.0	718.9	805.4	891.8	1110.2	1697.2	3248.8	4759.4	5933.4	7166.5	4354.5
65°	587.0	609.7	668.9	714.4	819.0	941.9	1146.6	1324.1	1624.4	1683.5	960.1
67.5°	477.8	496.0	550.6	600.6	618.8	509.6	527.8	464.1	464.1	414.1	332.2
70°	350.4	354.9	418.6	477.8	382.2	204.8	359.5	359.5	323.1	309.4	282.1
72.5°	259.4	263.9	314.0	295.8	150.2	127.4	263.9	291.2	263.9	250.3	227.5
75°	191.1	195.7	163.8	68.3	63.7	81.9	154.7	200.2	191.1	186.6	172.9
77.5°	36.4	27.3	22.8	31.9	45.5	68.3	100.1	122.9	127.4	136.5	127.4
80°	4.6	4.6	13.7	27.3	50.1	72.8	104.7	118.3	122.9	127.4	118.3
82.5°	0.0	4.6	13.7	27.3	50.1	68.3	91.0	104.7	113.8	118.3	113.8
85°	0.0	4.6	9.1	22.8	41.0	50.1	45.5	31.9	27.3	31.9	22.8
87.5°	0.0	0.0	4.6	4.6	9.1	9.1	9.1	9.1	9.1	9.1	9.1
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°	2866.6	2866.6	2866.6	2866.6	2866.6	2866.6	2866.6	2866.6	2866.6	2866.6	2866.6
2.5°	2903.0	2884.8	2821.1	2752.8	2693.7	2721.0	2693.7	2670.9	2680.0	2670.9	2661.8
5°	3062.2	2980.3	2843.8	2784.7	2734.6	2730.1	2716.4	2711.9	2716.4	2716.4	2675.5
7.5°	3212.4	3080.4	2934.8	2871.1	2812.0	2816.5	2784.7	2784.7	2780.1	2757.4	2748.3
10°	3439.9	3262.4	3075.9	2962.1	2889.3	2875.7	2843.8	2812.0	2812.0	2812.0	2766.5
12.5°	3690.2	3467.2	3212.4	3080.4	2994.0	2925.7	2875.7	2866.6	2816.5	2807.4	2784.7
15°	3908.6	3626.5	3303.4	3121.4	3012.2	2921.2	2843.8	2793.8	2771.0	2757.4	2739.2
17.5°	4122.4	3763.0	3353.4	3121.4	3003.1	2898.4	2816.5	2771.0	2716.4	2725.5	2689.1
20°	4409.1	3908.6	3367.1	3062.2	2916.6	2816.5	2707.3	2684.6	2652.7	2625.4	2634.5
22.5°	4686.6	4013.2	3326.1	2989.4	2780.1	2661.8	2607.2	2579.9	2566.3	2543.5	2511.7
25°	4936.9	4127.0	3262.4	2857.5	2634.5	2548.1	2498.0	2493.5	2461.6	2461.6	2402.5
27.5°	5191.7	4167.9	3153.2	2702.8	2507.1	2457.1	2434.3	2425.2	2411.6	2379.7	2338.8
30°	5482.9	4181.6	2994.0	2543.5	2393.4	2338.8	2370.6	2393.4	2334.2	2275.1	2293.3
32.5°	5724.1	4149.7	2802.9	2393.4	2311.5	2284.2	2347.9	2370.6	2302.4	2238.7	2206.8
35°	6015.3	4072.4	2616.3	2275.1	2229.6	2284.2	2338.8	2338.8	2202.3	2124.9	2106.7
37.5°	6456.6	3985.9	2443.4	2175.0	2143.1	2256.9	2329.7	2279.6	2065.8	1970.2	1947.5
40°	6929.9	3931.3	2275.1	2074.9	2097.6	2211.4	2252.3	2097.6	1879.2	1820.1	1801.9
42.5°	7616.9	3822.1	2124.9	1988.4	2056.7	2147.7	2147.7	1870.1	1788.2	1756.4	1751.8
45°	8472.4	3744.8	1993.0	1915.6	1997.5	2020.3	1947.5	1751.8	1692.7	1683.5	1688.1
47.5°	8891.0	3594.6	1856.5	1829.2	1888.3	1892.9	1701.8	1656.2	1606.2	1592.5	1583.4
50°	8827.3	3326.1	1679.0	1715.4	1797.3	1751.8	1551.6	1560.7	1515.2	1510.6	1487.9
52.5°	8381.3	2903.0	1501.5	1588.0	1679.0	1547.0	1428.7	1419.6	1419.6	1360.5	1337.7
55°	7430.4	2338.8	1287.7	1396.9	1506.1	1301.3	1269.5	1260.4	1237.6	1183.0	1169.4
57.5°	5883.3	1715.4	969.2	1087.5	1278.6	1105.7	1101.1	1060.2	1001.0	960.1	960.1
60°	3499.1	987.4	609.7	664.3	846.3	896.4	996.5	978.3	878.2	814.5	796.3
62.5°	1597.1	509.6	386.8	395.9	455.0	582.4	782.6	905.5	764.4	655.2	646.1
65°	536.9	377.7	318.5	304.9	314.0	350.4	468.7	641.6	609.7	505.1	486.9
67.5°	327.6	336.7	300.3	277.6	277.6	273.0	268.5	291.2	359.5	350.4	354.9
70°	282.1	309.4	277.6	250.3	241.2	227.5	191.1	159.3	136.5	159.3	168.4
72.5°	227.5	245.7	236.6	213.9	191.1	172.9	136.5	104.7	77.4	68.3	68.3
75°	168.4	182.0	191.1	163.8	145.6	122.9	100.1	68.3	41.0	27.3	27.3
77.5°	122.9	136.5	141.1	127.4	109.2	86.5	63.7	45.5	22.8	9.1	9.1
80°	104.7	122.9	136.5	127.4	113.8	81.9	59.2	31.9	18.2	4.6	4.6
82.5°	100.1	122.9	136.5	122.9	109.2	77.4	59.2	36.4	13.7	4.6	4.6
85°	22.8	31.9	41.0	50.1	59.2	59.2	45.5	27.3	13.7	4.6	4.6
87.5°	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1	4.6	4.6	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)