

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: P530297

Luminaire Tested: **GALN-SA5C-730-U-T3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530297
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-15)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5C-730-U-T3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19148 lumens
Efficiency: N/A
Efficacy: 71.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

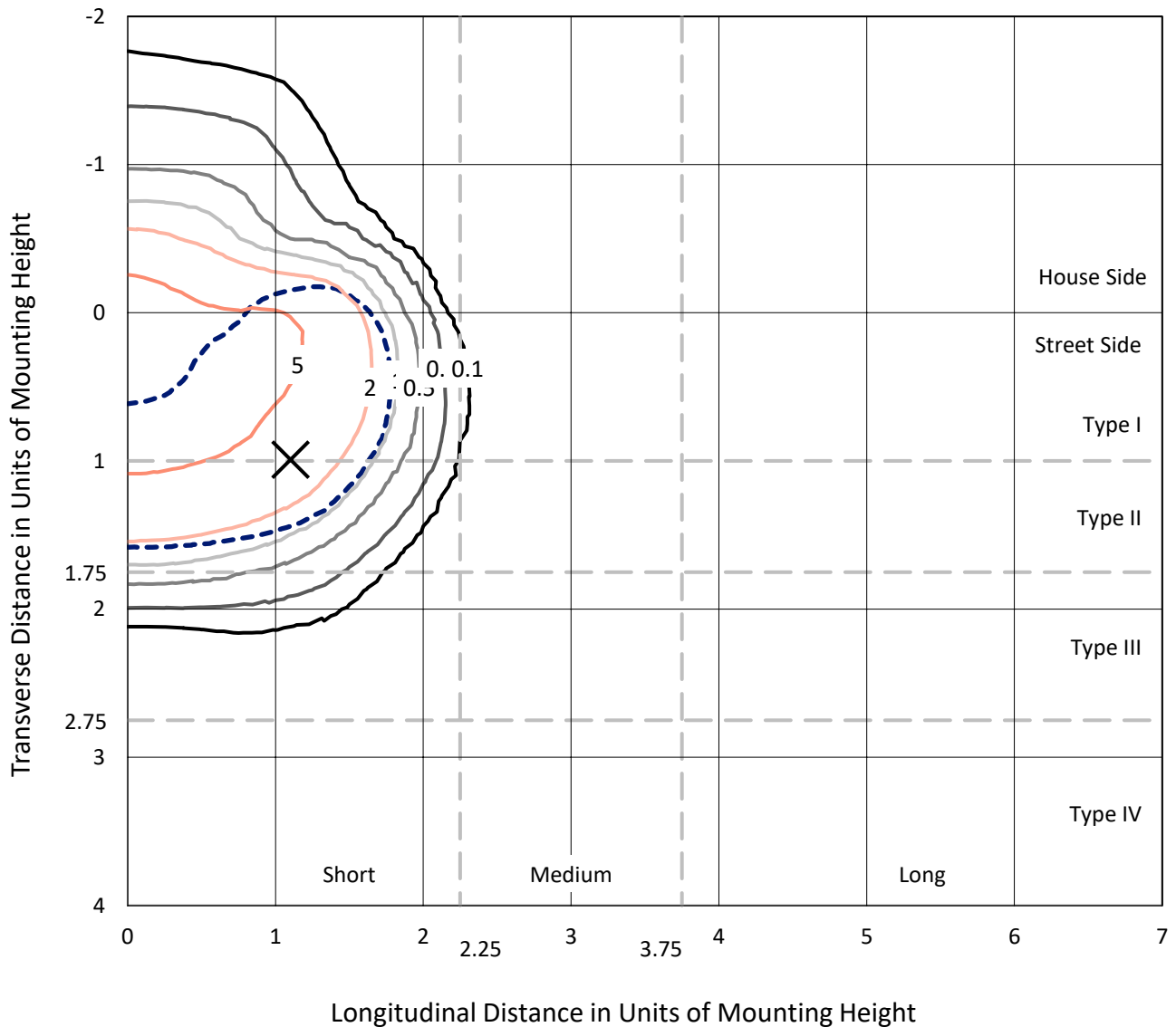
Input Watts (W): 269
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

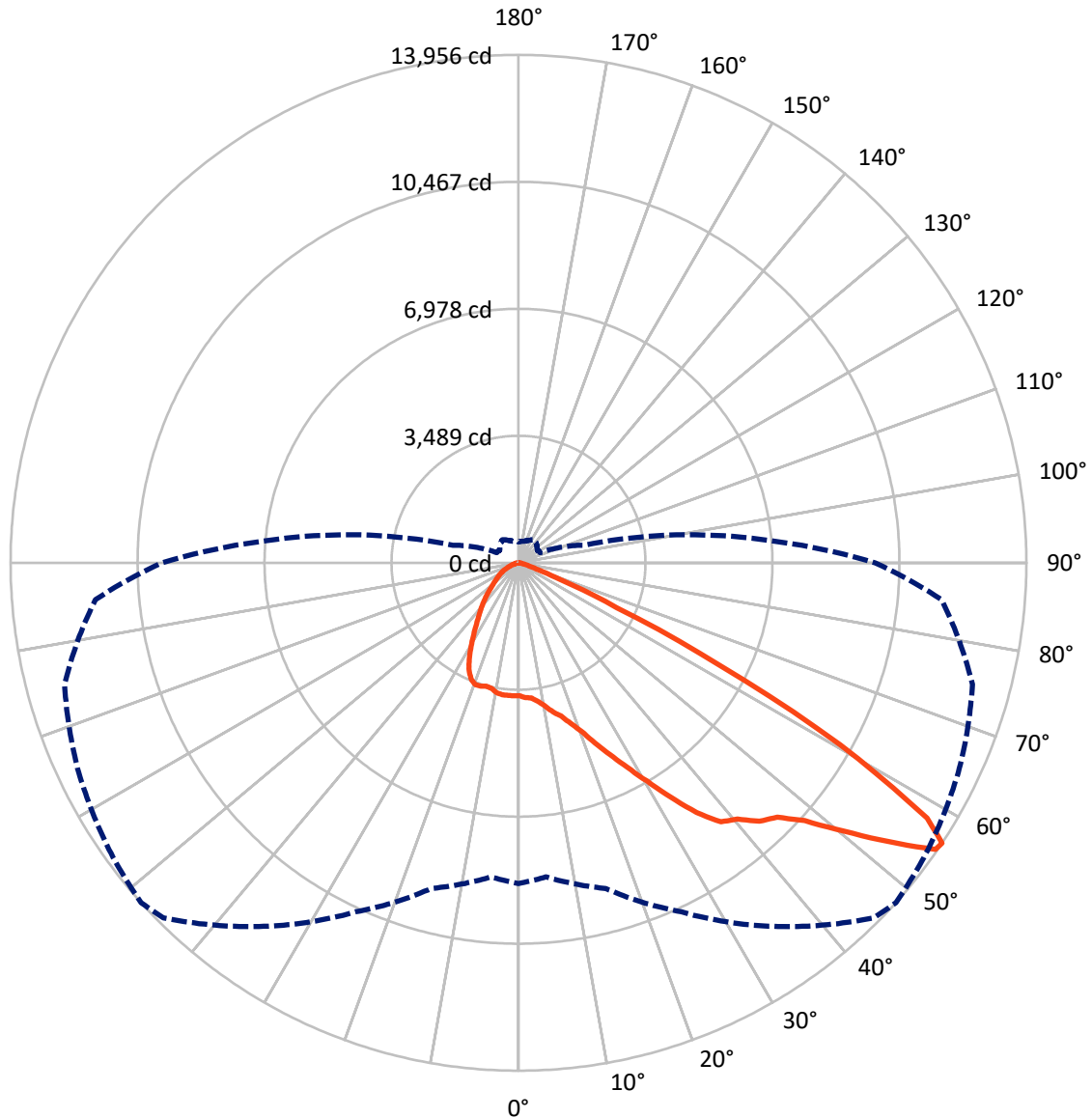
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 48-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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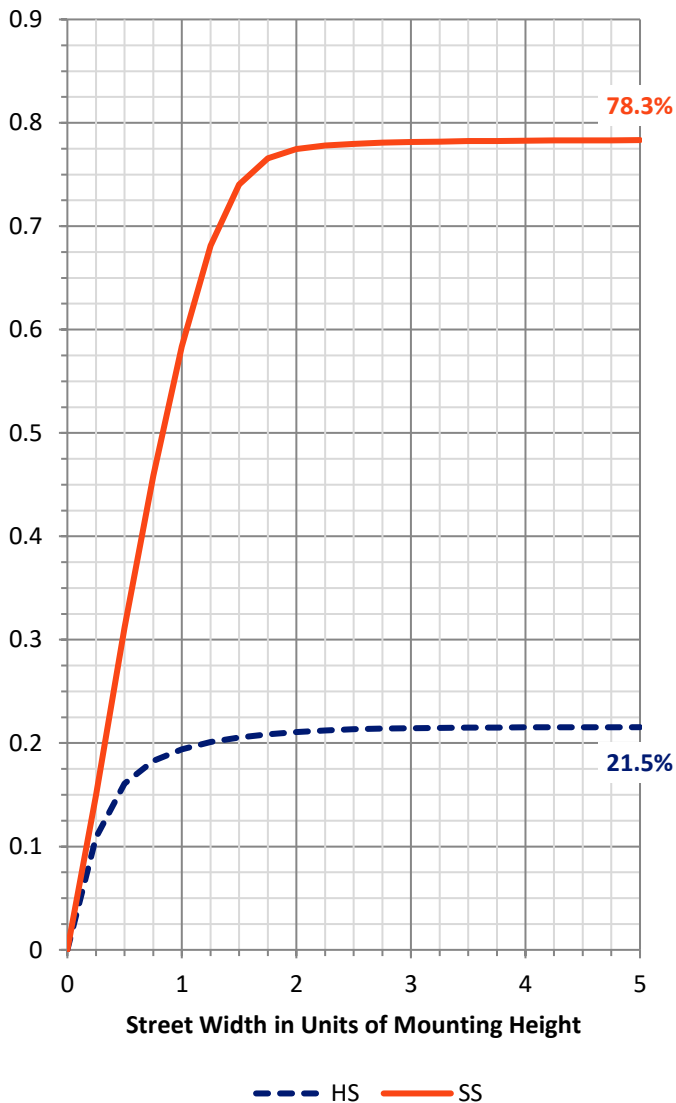
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4164.3	0.0	4164.3
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	14983.7	0.0	14983.7
	% Fixture	78.3	0.0	78.3
Total	Lumens	19148.0	0.0	19148.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	356.3	1.9
10°-20°	1138.5	5.9
20°-30°	2065.1	10.8
30°-40°	3243.8	16.9
40°-50°	4732.2	24.7
50°-60°	5701.3	29.8
60°-70°	1669.3	8.7
70°-80°	211.8	1.1
80°-90°	29.7	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°	19148.0	100.0
0°-180°	19148.0	100.0

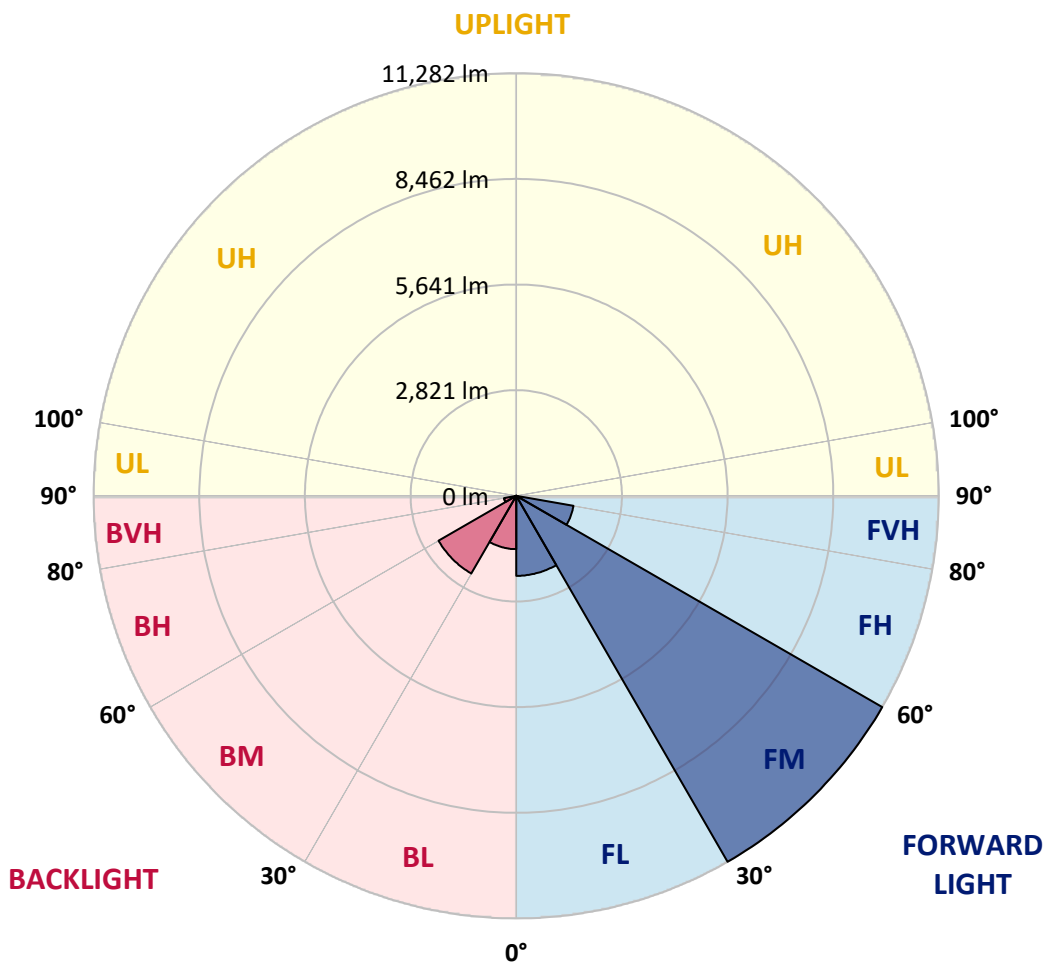


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2136.5	11.2			
FM (30°-60°)	11282.0	58.9			
FH (60°-80°)	1550.2	8.1			G1/1800
FVH (80°-90°)	14.9	0.1			G1/100
BL (0°-30°)	1423.4	7.4	B3/2500		
BM (30°-60°)	2395.3	12.5	B2/2500		
BH (60°-80°)	330.9	1.7	B1/500		G1/500
BVH (80°-90°)	14.8	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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	48°	55°	65°	75°	85°
0°	3657.3	3657.3	3657.3	3657.3	3657.3	3657.3	3657.3	3657.3	3657.3	3657.3	3657.3
2.5°	3723.5	3706.1	3706.1	3678.2	3709.6	3695.6	3706.1	3671.2	3706.1	3653.8	3695.6
5°	3741.0	3744.4	3730.5	3747.9	3747.9	3768.8	3734.0	3765.4	3782.8	3744.4	3727.0
7.5°	3831.6	3838.6	3835.1	3821.1	3849.0	3845.5	3842.1	3817.7	3824.6	3810.7	3789.8
10°	4009.4	4005.9	4023.4	3988.5	3967.6	3992.0	3998.9	3960.6	3932.7	3922.2	3856.0
12.5°	4267.4	4225.6	4201.2	4166.3	4176.8	4141.9	4204.6	4138.4	4124.5	4061.7	3995.5
15°	4476.6	4469.6	4473.1	4417.3	4354.6	4368.5	4368.5	4333.6	4312.7	4236.0	4141.9
17.5°	4905.4	4759.0	4790.4	4720.6	4668.3	4664.9	4633.5	4640.5	4584.7	4424.3	4281.3
20°	5240.1	5177.4	5128.6	5010.0	4929.8	4954.2	4940.3	4905.4	4888.0	4678.8	4476.6
22.5°	5540.0	5560.9	5480.7	5449.3	5337.7	5348.2	5376.1	5344.7	5212.2	4996.1	4696.2
25°	5961.8	5937.4	5829.3	5791.0	5686.4	5724.7	5832.8	5808.4	5724.7	5334.3	4867.1
27.5°	6460.4	6376.7	6397.6	6223.3	6122.2	6230.3	6359.3	6481.3	6244.2	5731.7	5069.3
30°	6812.5	6725.3	6718.4	6711.4	6687.0	6812.5	6962.4	7074.0	6882.2	6129.2	5404.0
32.5°	6986.8	7007.7	7067.0	7046.1	7258.8	7516.8	7673.7	7834.0	7593.5	6777.6	5846.8
35°	7450.5	7318.0	7450.5	7464.5	7684.1	8231.5	8430.2	8813.7	8754.5	7694.6	6387.2
37.5°	7722.5	7712.0	7729.4	7861.9	8074.6	8751.0	9033.4	9329.7	9218.1	8245.4	7060.0
40°	8172.2	8200.1	8196.6	8297.7	8531.3	9141.4	9256.5	9497.1	9507.5	9009.0	8050.2
42.5°	8893.9	8782.3	8709.1	8813.7	9141.4	9479.6	9709.7	9660.9	10006.1	9936.4	9322.7
45°	9542.4	9608.6	9500.6	9674.9	9793.4	9974.7	9967.7	10072.3	10511.6	10842.8	10281.5
47.5°	10149.0	10190.9	10243.2	10361.7	10619.7	10647.6	10588.3	10543.0	11149.6	11491.3	11024.1
50°	10511.6	10550.0	10794.0	11006.7	11487.8	11550.6	11585.4	11470.4	11881.8	11920.1	11724.9
52.5°	10414.0	10455.8	10797.5	11498.3	12265.3	12840.6	12736.0	12540.7	12516.3	12666.2	12373.4
55°	9549.4	9511.0	9981.7	11072.9	12509.3	13890.0	13903.9	13698.2	13304.3	13203.2	12275.8
56°	8813.7	8663.8	9263.5	10581.3	12195.6	13799.3	13956.2	13736.6	13367.0	12913.8	11672.6
57.5°	7220.4	7363.4	7959.5	9050.8	11111.3	13147.4	13238.0	13185.7	12906.8	12146.8	10271.1
60°	3981.5	4232.5	4759.0	6094.3	7910.7	10089.8	10163.0	10588.3	10640.6	9301.8	7067.0
62.5°	1690.9	1663.0	2210.4	3193.6	4504.5	6090.8	6226.8	6662.6	6742.8	5362.1	3545.7
65°	686.8	725.2	1000.6	1607.2	2381.2	2775.2	2967.0	3109.9	3374.9	2213.9	1307.4
67.5°	453.2	449.8	589.2	916.9	1283.0	1237.7	1237.7	1307.4	1209.8	903.0	564.8
70°	324.2	334.7	421.9	634.5	798.4	592.7	568.3	543.9	617.1	596.2	456.7
72.5°	212.7	226.6	282.4	380.0	414.9	324.2	324.2	390.5	509.0	481.1	373.0
75°	139.5	142.9	174.3	219.6	205.7	167.3	184.8	261.5	369.6	355.6	265.0
77.5°	94.1	97.6	118.5	142.9	115.1	94.1	101.1	132.5	181.3	181.3	139.5
80°	34.9	38.4	48.8	45.3	52.3	66.2	73.2	90.6	108.1	108.1	94.1
82.5°	0.0	3.5	10.5	24.4	38.4	52.3	59.3	69.7	80.2	90.6	87.2
85°	0.0	3.5	10.5	17.4	27.9	31.4	34.9	24.4	20.9	20.9	17.4
87.5°	0.0	0.0	3.5	3.5	3.5	3.5	3.5	3.5	7.0	3.5	3.5
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°	3657.3	3657.3	3657.3	3657.3	3657.3	3657.3	3657.3	3657.3	3657.3	3657.3	3657.3
2.5°	3657.3	3653.8	3653.8	3643.3	3664.2	3653.8	3660.8	3657.3	3612.0	3646.8	3622.4
5°	3695.6	3720.0	3681.7	3674.7	3646.8	3657.3	3657.3	3622.4	3653.8	3650.3	3643.3
7.5°	3793.2	3751.4	3709.6	3667.7	3660.8	3650.3	3612.0	3598.0	3622.4	3594.5	3636.4
10°	3835.1	3842.1	3779.3	3723.5	3671.2	3598.0	3545.7	3514.3	3476.0	3517.8	3542.2
12.5°	4026.8	3957.1	3849.0	3761.9	3584.1	3510.8	3458.5	3444.6	3510.8	3524.8	3500.4
15°	4093.1	4082.6	3943.2	3747.9	3563.1	3476.0	3486.4	3458.5	3465.5	3430.7	3437.6
17.5°	4229.1	4110.5	3946.7	3702.6	3559.7	3538.7	3476.0	3364.4	3301.7	3273.8	3298.2
20°	4379.0	4263.9	4026.8	3720.0	3591.0	3535.3	3329.6	3193.6	3064.6	2994.9	2998.3
22.5°	4511.5	4368.5	3992.0	3727.0	3618.9	3388.8	3141.3	2872.8	2712.5	2604.4	2607.9
25°	4671.8	4469.6	4005.9	3741.0	3545.7	3155.2	2799.6	2538.1	2346.4	2273.2	2297.6
27.5°	4762.5	4532.4	4082.6	3772.3	3354.0	2824.0	2440.5	2196.5	2084.9	2050.0	2046.5
30°	5034.4	4671.8	4176.8	3709.6	3033.2	2468.4	2112.8	1962.9	1854.8	1823.4	1830.4
32.5°	5438.8	4926.3	4298.8	3545.7	2705.5	2151.1	1900.1	1788.5	1687.4	1628.2	1621.2
35°	5777.0	5362.1	4427.8	3291.2	2325.5	1907.1	1750.2	1610.7	1457.3	1391.1	1373.7
37.5°	6422.0	5853.7	4399.9	2907.7	1962.9	1725.8	1589.8	1419.0	1286.5	1195.8	1185.4
40°	7279.7	6429.0	4263.9	2440.5	1694.4	1565.4	1419.0	1255.1	1091.3	1014.6	1007.6
42.5°	8322.1	7133.3	4016.4	1966.4	1426.0	1405.0	1272.6	1084.3	937.9	882.1	885.6
45°	9169.3	7736.4	3765.4	1579.4	1227.2	1248.1	1133.1	955.3	854.2	808.9	808.9
47.5°	9922.4	8144.3	3493.4	1303.9	1042.4	1091.3	990.1	885.6	798.4	763.5	756.6
50°	10647.6	8559.2	3221.5	1056.4	889.0	937.9	927.4	843.7	774.0	732.2	735.6
52.5°	11100.8	8625.5	2876.3	864.6	777.5	833.3	868.1	791.4	714.7	690.3	683.3
55°	10546.5	7771.3	2231.3	711.2	658.9	732.2	798.4	711.2	652.0	610.1	606.6
56°	9800.4	6948.5	1865.2	655.5	624.1	704.3	774.0	679.9	613.6	589.2	571.8
57.5°	8297.7	5686.4	1377.1	582.2	578.7	655.5	735.6	648.5	571.8	550.9	550.9
60°	5173.9	3200.6	833.3	488.1	502.0	582.2	662.4	578.7	509.0	509.0	519.5
62.5°	2356.8	1331.8	505.5	414.9	432.3	502.0	589.2	523.0	484.6	523.0	529.9
65°	801.9	575.3	366.1	331.2	341.7	414.9	505.5	529.9	526.5	550.9	564.8
67.5°	449.8	369.6	306.8	275.4	268.5	306.8	414.9	529.9	509.0	498.6	505.5
70°	380.0	313.8	271.9	244.1	233.6	247.5	320.8	400.9	359.1	348.6	341.7
72.5°	306.8	261.5	237.1	219.6	188.3	160.4	146.4	153.4	170.8	181.3	198.7
75°	216.2	198.7	198.7	177.8	136.0	101.1	80.2	66.2	45.3	31.4	34.9
77.5°	122.0	122.0	125.5	108.1	87.2	66.2	48.8	34.9	17.4	7.0	3.5
80°	83.7	90.6	97.6	87.2	73.2	59.3	41.8	24.4	10.5	0.0	0.0
82.5°	83.7	94.1	101.1	87.2	73.2	55.8	41.8	24.4	10.5	3.5	0.0
85°	17.4	20.9	24.4	27.9	41.8	41.8	31.4	20.9	10.5	3.5	0.0
87.5°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	0.0	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)