

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: P647461

Luminaire Tested: **GALN-SA5D-835-U-T3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647461
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-SA5D-835-U-T3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3500K, 1200mA 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: 18114.7 lumens
Efficiency: N/A
Efficacy: 58.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

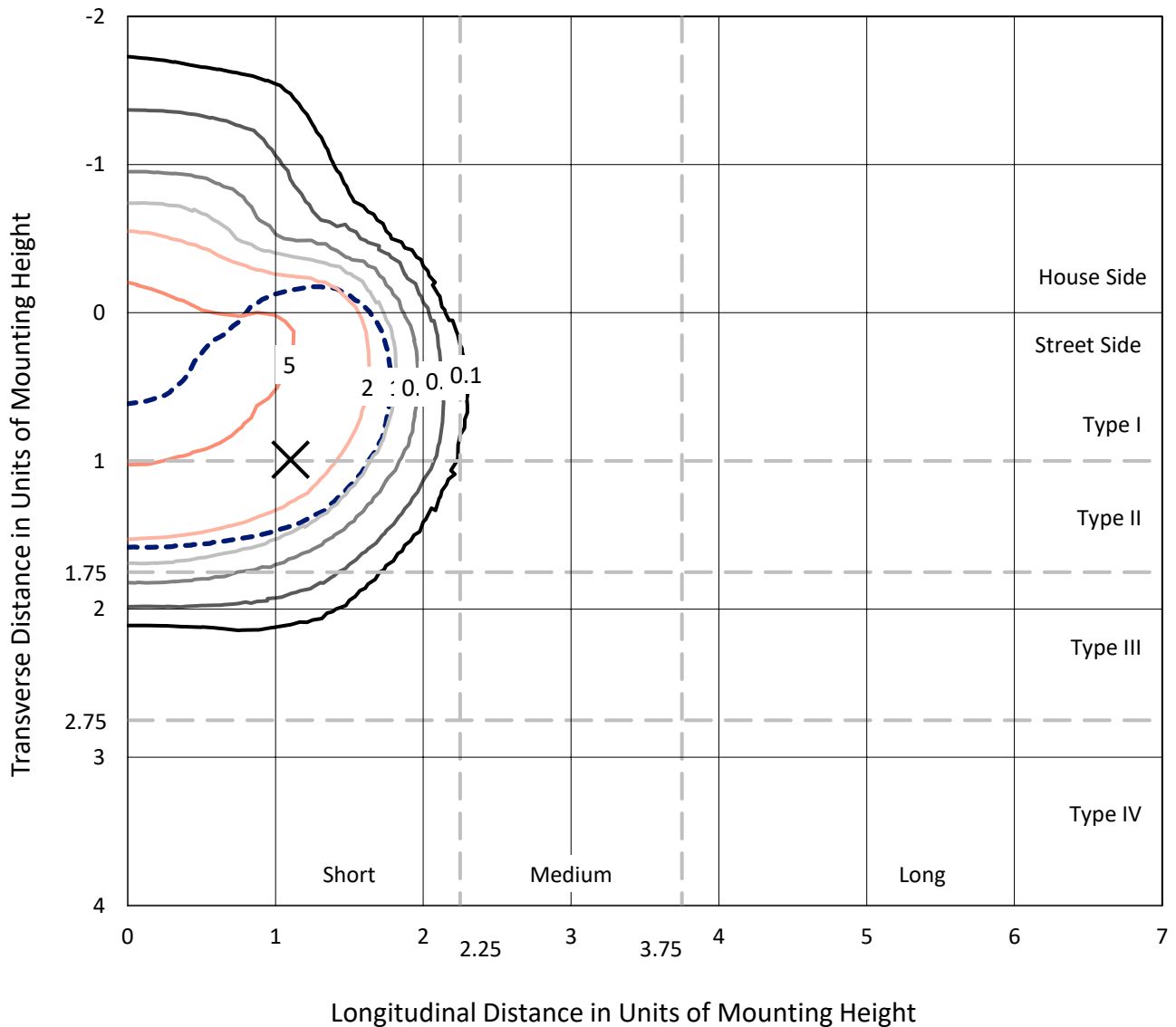
Input Watts (W): 309
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

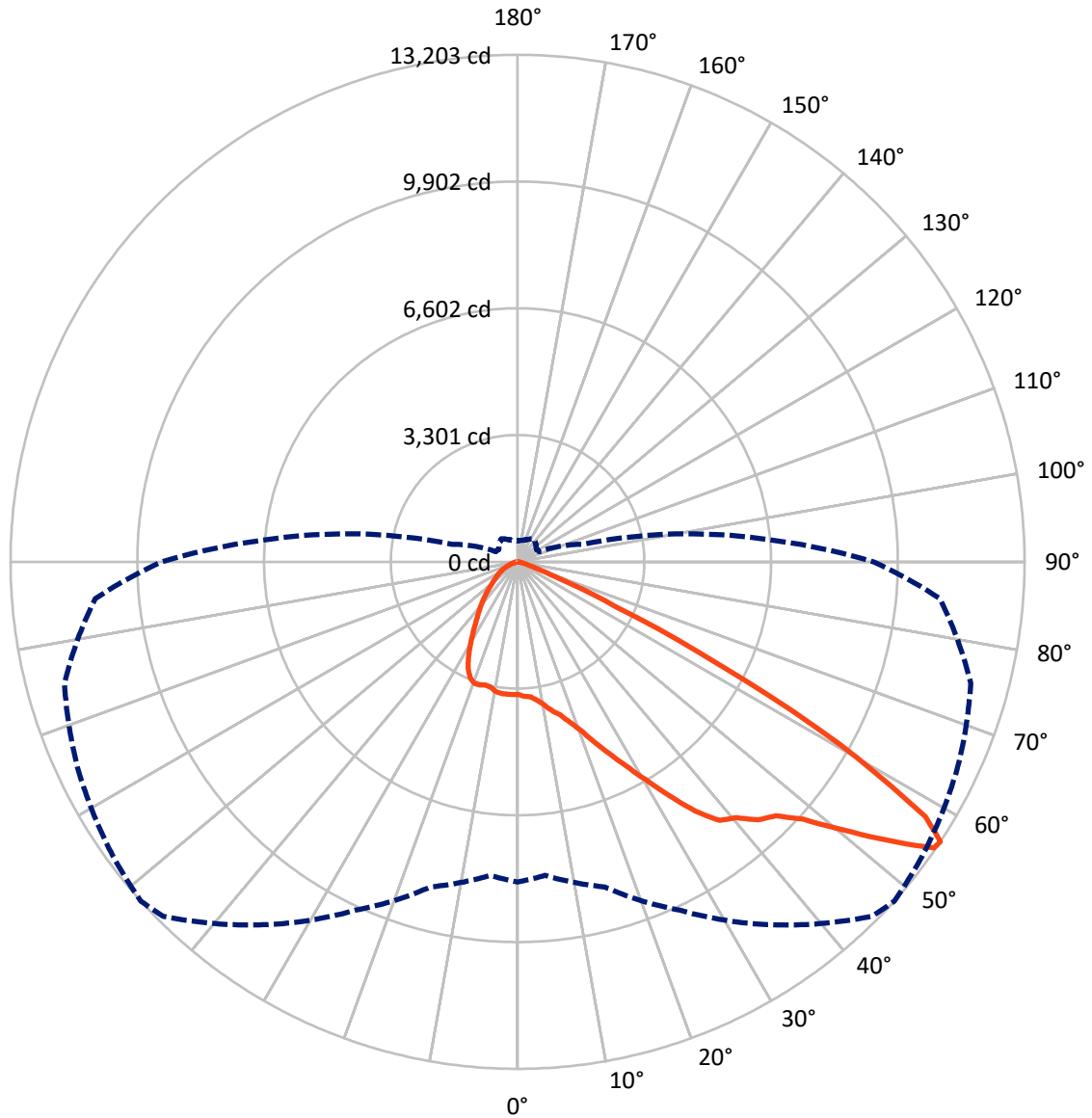
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 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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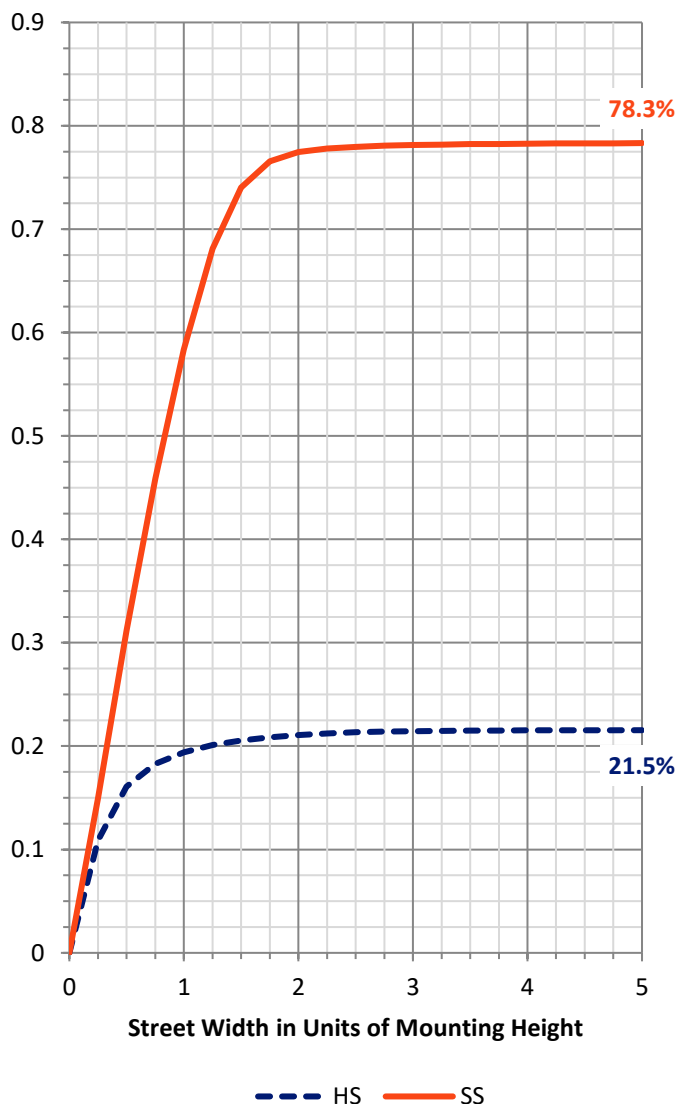
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3939.6	0.0	3939.6
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	14175.1	0.0	14175.1
	% Fixture	78.3	0.0	78.3
Total	Lumens	18114.7	0.0	18114.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	337.0	1.9
10°-20°	1077.1	5.9
20°-30°	1953.6	10.8
30°-40°	3068.8	16.9
40°-50°	4476.8	24.7
50°-60°	5393.7	29.8
60°-70°	1579.2	8.7
70°-80°	200.3	1.1
80°-90°	28.1	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°	18114.7	100.0
0°-180°	18114.7	100.0

Coefficient of Utilization



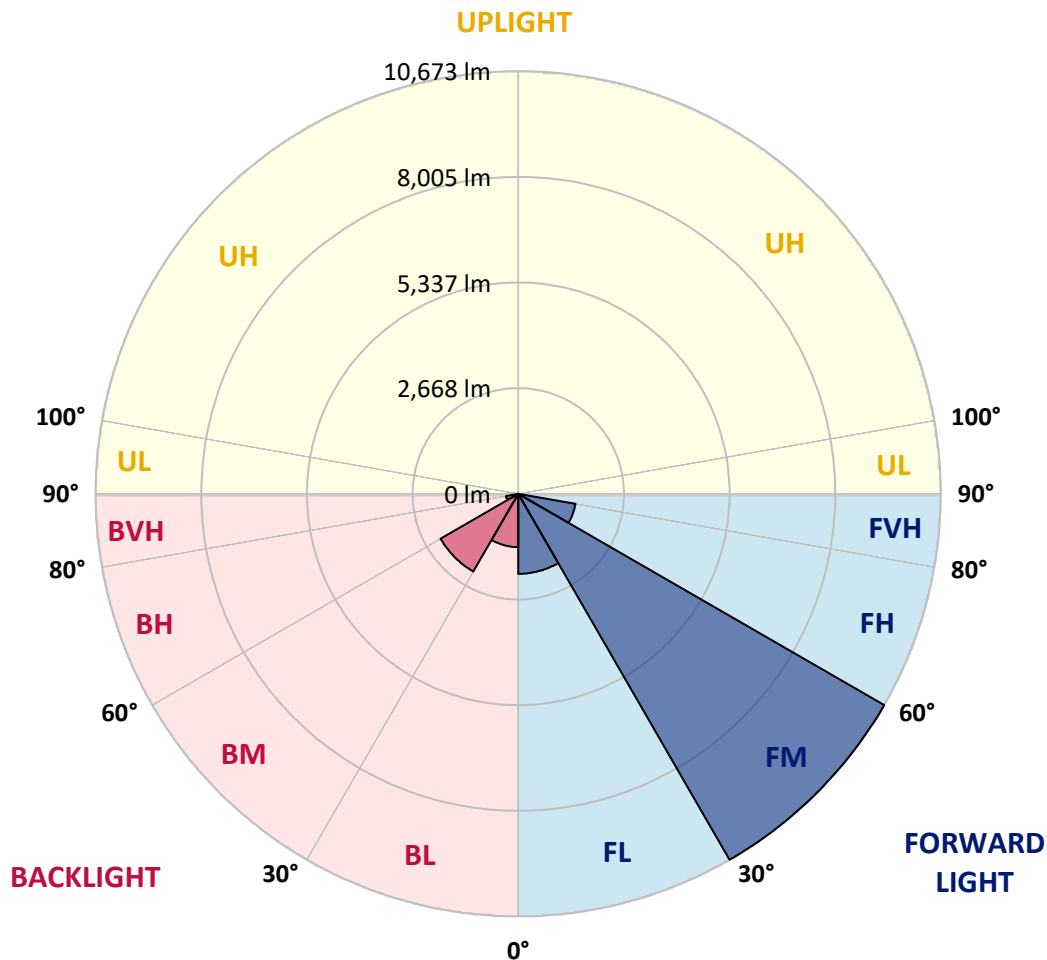
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2021.2	11.2			
FM (30°-60°)	10673.2	58.9			
FH (60°-80°)	1466.5	8.1			G1/1800
FVH (80°-90°)	14.1	0.1			G1/100
BL (0°-30°)	1346.5	7.4	B3/2500		
BM (30°-60°)	2266.0	12.5	B2/2500		
BH (60°-80°)	313.0	1.7	B1/500		G1/500
BVH (80°-90°)	14.0	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°	3459.9	3459.9	3459.9	3459.9	3459.9	3459.9	3459.9	3459.9	3459.9	3459.9	3459.9
2.5°	3522.6	3506.1	3506.1	3479.7	3509.4	3496.2	3506.1	3473.1	3506.1	3456.6	3496.2
5°	3539.1	3542.4	3529.2	3545.7	3545.7	3565.5	3532.5	3562.2	3578.6	3542.4	3525.8
7.5°	3624.8	3631.4	3628.1	3615.0	3641.3	3638.1	3634.8	3611.7	3618.2	3605.0	3585.3
10°	3793.0	3789.7	3806.2	3773.3	3753.5	3776.6	3783.1	3746.9	3720.5	3710.6	3647.9
12.5°	4037.1	3997.5	3974.4	3941.5	3951.3	3918.4	3977.7	3915.1	3901.9	3842.5	3779.9
15°	4235.0	4228.4	4231.7	4178.9	4119.6	4132.8	4132.8	4099.8	4080.0	4007.5	3918.4
17.5°	4640.7	4502.2	4531.8	4465.9	4416.4	4413.1	4383.5	4390.0	4337.3	4185.5	4050.3
20°	4957.3	4898.0	4851.8	4739.7	4663.8	4686.9	4673.7	4640.7	4624.2	4426.3	4235.0
22.5°	5241.0	5260.8	5184.9	5155.3	5049.7	5059.6	5086.0	5056.3	4930.9	4726.5	4442.8
25°	5640.1	5617.0	5514.7	5478.5	5379.5	5415.8	5518.0	5494.9	5415.8	5046.4	4604.4
27.5°	6111.8	6032.6	6052.4	5887.5	5791.9	5894.0	6016.1	6131.5	5907.3	5422.4	4795.7
30°	6444.9	6362.4	6355.8	6349.2	6326.2	6444.9	6586.7	6692.2	6510.9	5798.4	5112.4
32.5°	6609.8	6629.6	6685.6	6665.8	6867.1	7111.1	7259.6	7411.3	7183.7	6411.9	5531.3
35°	7048.5	6923.1	7048.5	7061.6	7269.5	7787.2	7975.3	8338.1	8282.0	7279.3	6042.5
37.5°	7305.7	7295.8	7312.4	7437.6	7638.9	8278.7	8545.9	8826.3	8720.7	7800.5	6679.1
40°	7731.2	7757.6	7754.3	7850.0	8070.9	8648.2	8757.0	8984.5	8994.5	8522.8	7615.8
42.5°	8414.0	8308.4	8239.1	8338.1	8648.2	8968.1	9185.8	9139.6	9466.2	9400.1	8819.6
45°	9027.4	9090.1	8987.9	9152.8	9264.9	9436.4	9429.8	9528.8	9944.3	10257.7	9726.7
47.5°	9601.4	9640.9	9690.4	9802.5	10046.6	10073.0	10016.9	9974.1	10547.9	10871.2	10429.2
50°	9944.3	9980.7	10211.6	10412.7	10867.9	10927.2	10960.3	10851.4	11240.6	11276.9	11092.2
52.5°	9852.0	9891.6	10214.9	10877.8	11603.4	12147.6	12048.7	11864.0	11840.9	11982.7	11705.7
55°	9034.0	8997.8	9443.1	10475.4	11834.3	13140.5	13153.6	12959.0	12586.3	12490.7	11613.3
56°	8338.1	8196.3	8763.6	10010.3	11537.4	13054.6	13203.1	12995.3	12645.7	12216.9	11042.7
57.5°	6830.8	6966.0	7530.0	8562.4	10511.7	12437.9	12523.6	12474.2	12210.3	11491.3	9716.8
60°	3766.6	4004.1	4502.2	5765.5	7483.8	9545.3	9614.5	10016.9	10066.4	8799.9	6685.6
62.5°	1599.7	1573.3	2091.2	3021.2	4261.4	5762.1	5890.7	6303.1	6378.9	5072.8	3354.4
65°	649.7	686.1	946.6	1520.5	2252.8	2625.5	2806.8	2942.1	3192.8	2094.4	1236.8
67.5°	428.8	425.5	557.4	867.5	1213.8	1170.9	1170.9	1236.8	1144.5	854.3	534.3
70°	306.8	316.6	399.1	600.3	755.3	560.7	537.6	514.5	583.8	564.0	432.1
72.5°	201.2	214.4	267.2	359.6	392.5	306.8	306.8	369.4	481.5	455.2	352.9
75°	131.9	135.2	164.9	207.8	194.6	158.3	174.8	247.3	349.6	336.5	250.6
77.5°	89.0	92.3	112.1	135.2	108.8	89.0	95.7	125.4	171.5	171.5	131.9
80°	33.0	36.3	46.2	42.9	49.5	62.6	69.3	85.7	102.3	102.3	89.0
82.5°	0.0	3.3	9.9	23.1	36.3	49.5	56.1	65.9	75.9	85.7	82.4
85°	0.0	3.3	9.9	16.5	26.4	29.7	33.0	23.1	19.8	19.8	16.5
87.5°	0.0	0.0	3.3	3.3	3.3	3.3	3.3	3.3	6.6	3.3	3.3
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°	3459.9	3459.9	3459.9	3459.9	3459.9	3459.9	3459.9	3459.9	3459.9	3459.9	3459.9
2.5°	3459.9	3456.6	3456.6	3446.7	3466.5	3456.6	3463.2	3459.9	3417.0	3450.1	3427.0
5°	3496.2	3519.3	3483.0	3476.4	3450.1	3459.9	3459.9	3427.0	3456.6	3453.3	3446.7
7.5°	3588.6	3548.9	3509.4	3469.8	3463.2	3453.3	3417.0	3403.9	3427.0	3400.6	3440.1
10°	3628.1	3634.8	3575.3	3522.6	3473.1	3403.9	3354.4	3324.7	3288.4	3328.0	3351.1
12.5°	3809.5	3743.6	3641.3	3558.9	3390.6	3321.4	3271.9	3258.7	3321.4	3334.6	3311.5
15°	3872.2	3862.3	3730.4	3545.7	3370.9	3288.4	3298.3	3271.9	3278.5	3245.5	3252.1
17.5°	4000.8	3888.7	3733.7	3502.8	3367.5	3347.8	3288.4	3182.9	3123.5	3097.1	3120.2
20°	4142.7	4033.9	3809.5	3519.3	3397.3	3344.5	3149.9	3021.2	2899.2	2833.2	2836.6
22.5°	4268.0	4132.8	3776.6	3525.8	3423.7	3205.9	2971.8	2717.8	2566.0	2463.9	2467.2
25°	4419.7	4228.4	3789.7	3539.1	3354.4	2985.0	2648.5	2401.1	2219.7	2150.5	2173.6
27.5°	4505.5	4287.8	3862.3	3568.8	3173.0	2671.6	2308.8	2077.9	1972.4	1939.4	1936.1
30°	4762.8	4419.7	3951.3	3509.4	2869.5	2335.2	1998.8	1857.0	1754.7	1725.0	1731.6
32.5°	5145.3	4660.5	4066.8	3354.4	2559.5	2035.0	1797.6	1692.1	1596.4	1540.3	1533.7
35°	5465.3	5072.8	4188.8	3113.6	2200.0	1804.2	1655.7	1523.8	1378.7	1316.0	1299.5
37.5°	6075.5	5537.8	4162.4	2750.8	1857.0	1632.6	1504.0	1342.4	1217.1	1131.3	1121.4
40°	6886.9	6082.0	4033.9	2308.8	1603.0	1481.0	1342.4	1187.4	1032.4	959.8	953.2
42.5°	7873.1	6748.3	3799.7	1860.3	1349.0	1329.2	1203.9	1025.8	887.2	834.4	837.7
45°	8674.5	7318.9	3562.2	1494.1	1161.0	1180.8	1071.9	903.7	808.1	765.2	765.2
47.5°	9387.0	7704.8	3304.9	1233.5	986.2	1032.4	936.7	837.7	755.3	722.3	715.7
50°	10073.0	8097.3	3047.6	999.4	841.1	887.2	877.4	798.2	732.3	692.6	695.9
52.5°	10501.8	8160.0	2721.1	818.0	735.6	788.3	821.3	748.7	676.1	653.1	646.4
55°	9977.4	7351.9	2110.9	672.8	623.3	692.6	755.3	672.8	616.8	577.2	573.9
56°	9271.5	6573.5	1764.6	620.1	590.4	666.3	732.3	643.2	580.5	557.4	540.9
57.5°	7850.0	5379.5	1302.8	550.8	547.6	620.1	695.9	613.5	540.9	521.2	521.2
60°	4894.7	3027.9	788.3	461.7	475.0	550.8	626.7	547.6	481.5	481.5	491.4
62.5°	2229.7	1259.9	478.3	392.5	409.0	475.0	557.4	494.8	458.4	494.8	501.4
65°	758.6	544.2	346.3	313.4	323.2	392.5	478.3	501.4	498.1	521.2	534.3
67.5°	425.5	349.6	290.3	260.6	254.0	290.3	392.5	501.4	481.5	471.7	478.3
70°	359.6	296.8	257.3	230.9	221.0	234.2	303.4	379.3	339.7	329.8	323.2
72.5°	290.3	247.3	224.3	207.8	178.1	151.7	138.5	145.1	161.6	171.5	188.0
75°	204.5	188.0	188.0	168.2	128.6	95.7	75.9	62.6	42.9	29.7	33.0
77.5°	115.4	115.4	118.7	102.3	82.4	62.6	46.2	33.0	16.5	6.6	3.3
80°	79.2	85.7	92.3	82.4	69.3	56.1	39.5	23.1	9.9	0.0	0.0
82.5°	79.2	89.0	95.7	82.4	69.3	52.8	39.5	23.1	9.9	3.3	0.0
85°	16.5	19.8	23.1	26.4	39.5	39.5	29.7	19.8	9.9	3.3	0.0
87.5°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	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)