

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: P382699

Luminaire Tested: **GLEON-SA0D-735-U-T2**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P382699  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA0D-735-U-T2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(10) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 70207 lumens  
Efficiency: N/A  
Efficacy: 109.7 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B4 - U0 - G5

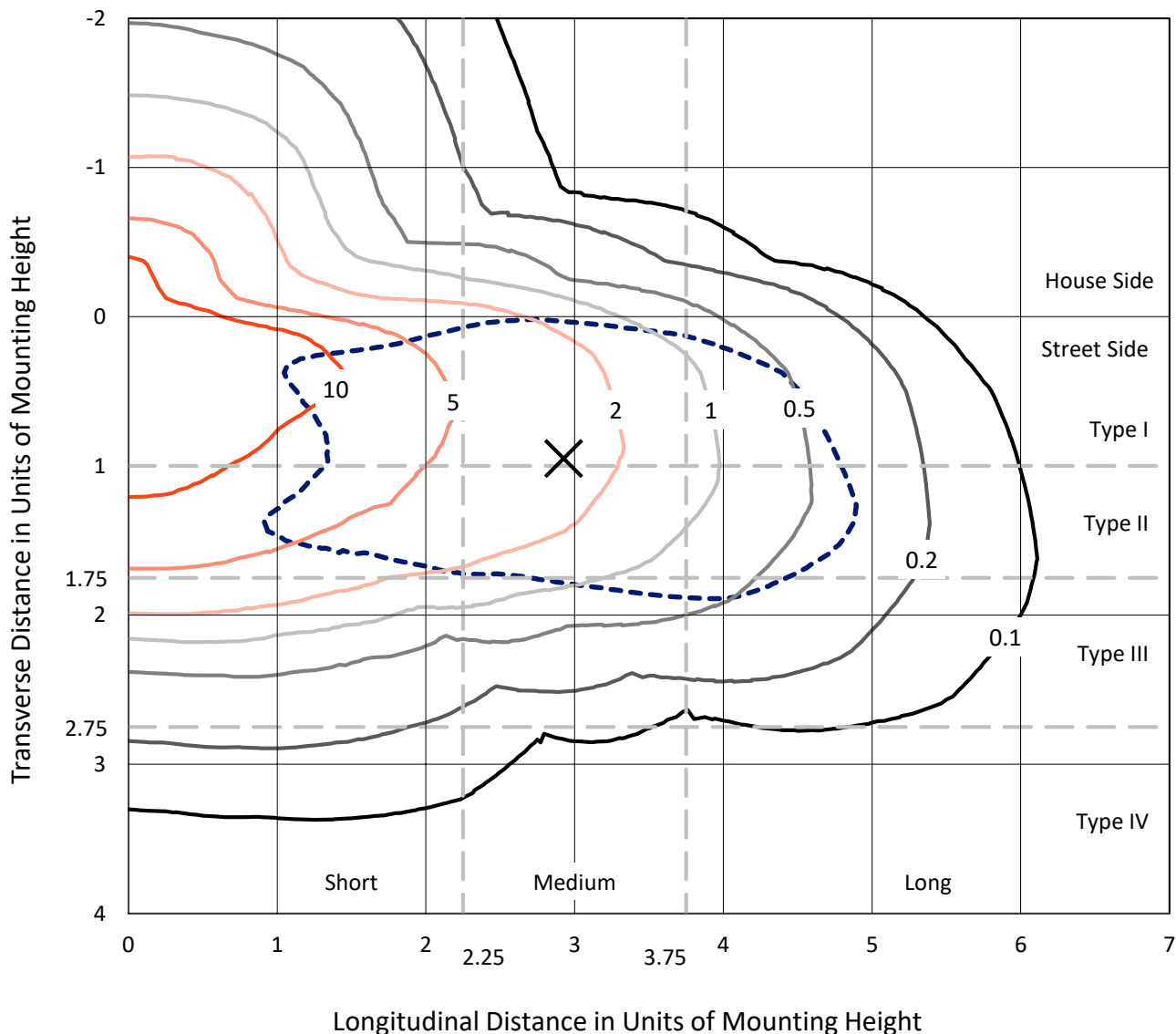
Input Watts (W): 640  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

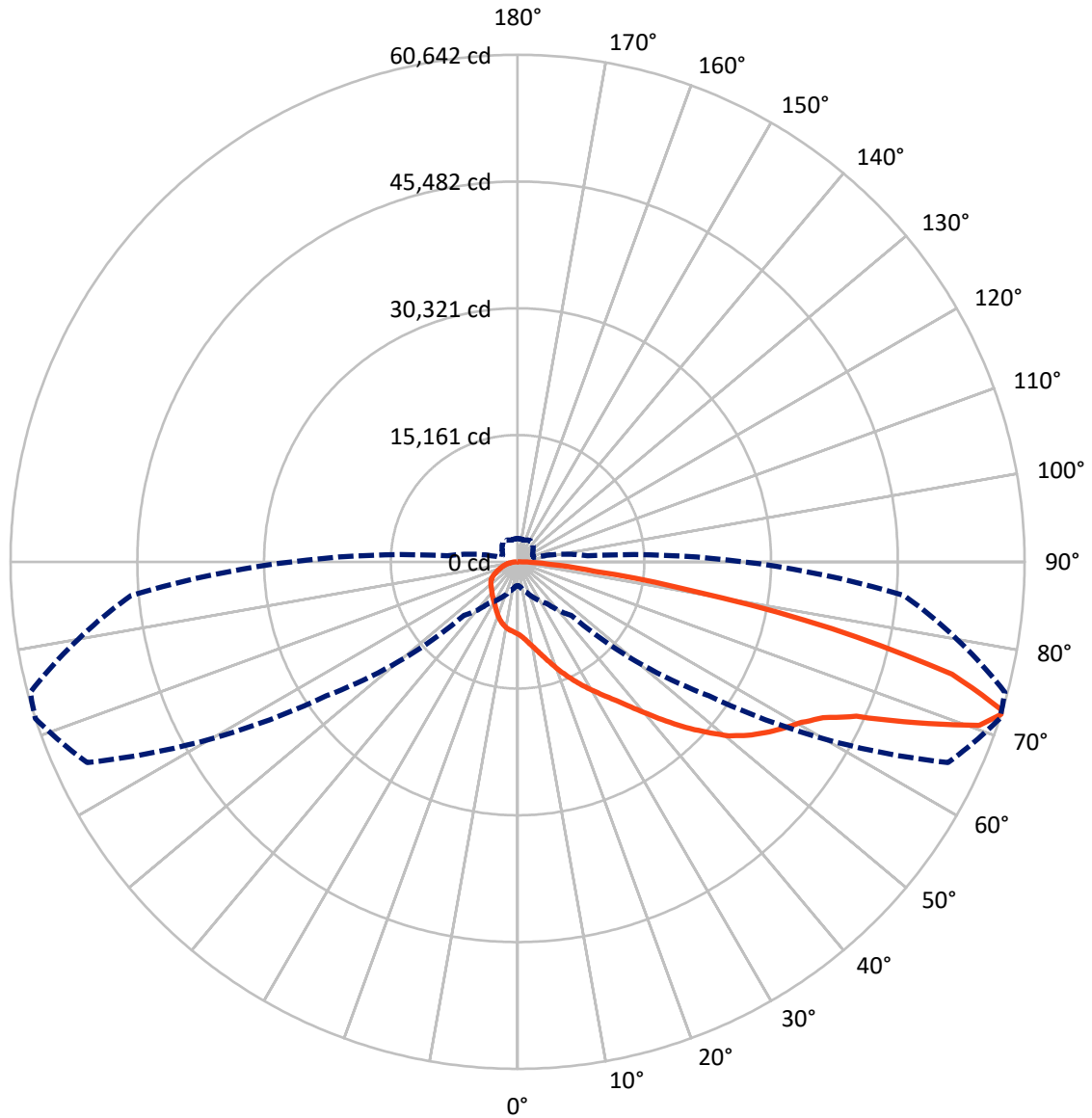
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.1 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral      - - - Horizontal Cone Through 72-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	13023.9	0.0	13023.9
	% Fixture	18.6	0.0	18.6
<b>Street Side</b>	Lumens	57183.1	0.0	57183.1
	% Fixture	81.4	0.0	81.4
<b>Total</b>	Lumens	70207.0	0.0	70207.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	865.5	1.2
10°-20°	2796.8	4.0
20°-30°	4900.9	7.0
30°-40°	7266.5	10.4
40°-50°	10627.9	15.1
50°-60°	14623.8	20.8
60°-70°	16280.7	23.2
70°-80°	11031.8	15.7
80°-90°	1813.2	2.6
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°	70207.0	100.0
0°-180°	70207.0	100.0

**Coefficient of Utilization**

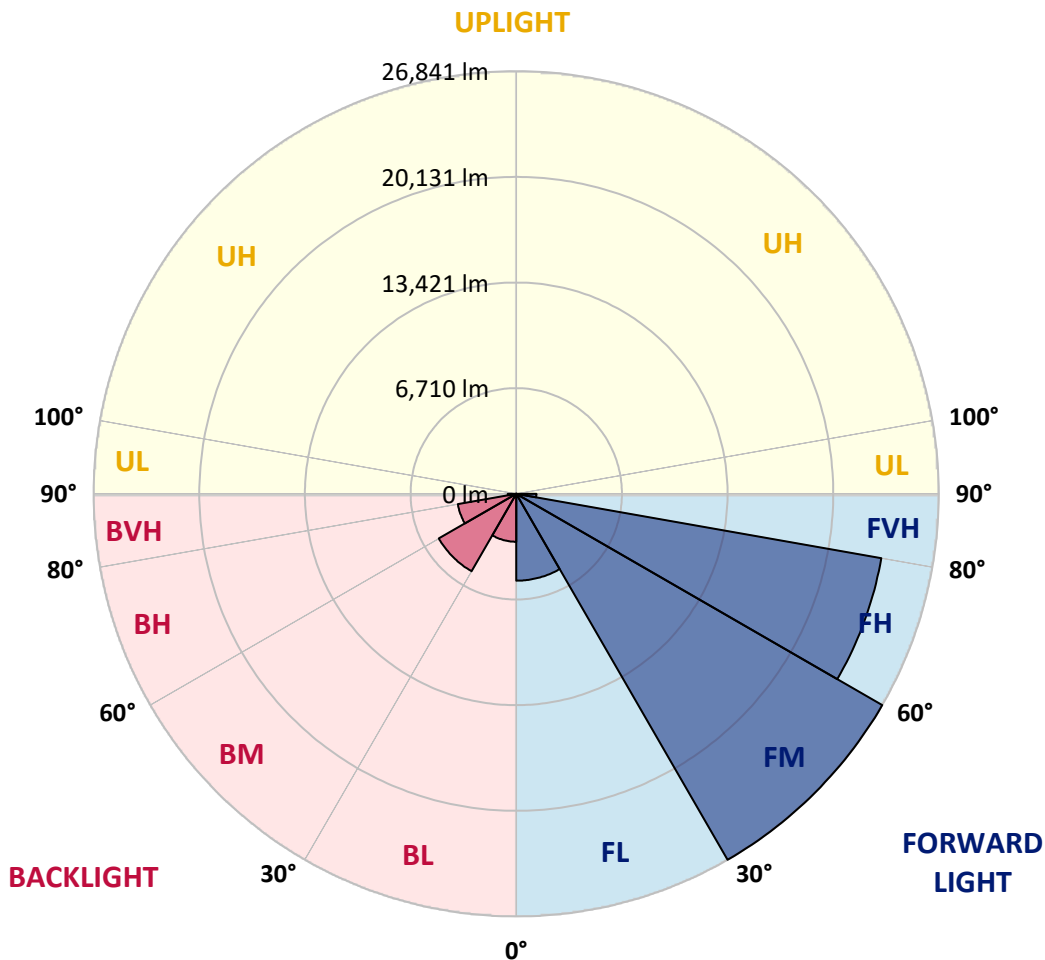


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5518.7	7.9			
FM (30°-60°)	26841.0	38.2			
FH (60°-80°)	23544.5	33.5			G5
FVH (80°-90°)	1279.0	1.8			G5
BL (0°-30°)	3044.5	4.3	B4/5000		
BM (30°-60°)	5677.2	8.1	B4/8500		
BH (60°-80°)	3768.0	5.4	B4/5000		G4/5000
BVH (80°-90°)	534.2	0.8			G4/750
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G5**  
 Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	8637.3	8637.3	8637.3	8637.3	8637.3	8637.3	8637.3	8637.3	8637.3	8637.3	8637.3
2.5°	9541.4	9526.8	9476.2	9476.2	9379.5	9297.2	9142.5	9038.6	8915.3	8871.8	8726.7
5°	10464.8	10469.7	10406.8	10363.3	10220.7	10046.6	9783.1	9543.8	9304.5	9207.8	8910.4
7.5°	11240.8	11231.1	11214.2	11177.9	11045.0	10866.1	10510.7	10155.5	9802.5	9657.4	9144.9
10°	11738.8	11760.5	11775.0	11792.0	11736.4	11608.3	11272.2	10839.5	10377.8	10179.6	9425.4
12.5°	11990.2	12028.9	12096.5	12212.6	12304.4	12289.9	12045.8	11586.5	11037.7	10788.7	9775.8
15°	12137.7	12188.5	12294.8	12502.7	12761.4	12908.8	12843.5	12427.8	11816.1	11509.2	10203.8
17.5°	12229.5	12270.6	12435.0	12713.0	13097.4	13489.0	13660.6	13312.5	12696.1	12345.5	10694.4
20°	12292.3	12323.8	12529.3	12855.6	13353.6	13977.3	14455.9	14368.9	13665.4	13211.0	11207.0
22.5°	12432.6	12459.2	12655.0	12983.7	13534.9	14339.9	15222.2	15352.7	14688.0	14173.1	11755.8
25°	12824.2	12824.2	12988.6	13218.2	13735.6	14654.2	15870.1	16447.9	15732.3	15132.8	12263.4
27.5°	13571.2	13563.9	13624.3	13704.1	14095.7	14973.2	16447.9	17414.8	16815.3	16160.2	12756.5
30°	14455.9	14504.3	14511.6	14472.8	14656.6	15372.1	16982.1	18435.0	17905.6	17199.6	13261.7
32.5°	15594.5	15626.0	15589.6	15461.5	15435.0	15937.8	17506.7	19503.4	19085.2	18285.1	13723.5
35°	17040.1	16979.7	16866.0	16604.9	16356.0	16694.5	18106.2	20571.9	20409.9	19597.7	14359.2
37.5°	18589.7	18592.1	18451.8	17859.6	17516.4	17661.4	18932.9	21783.0	22012.7	21159.4	15173.9
40°	19832.2	19897.5	19984.5	19206.1	18761.3	18961.9	19984.5	23187.5	23907.9	23011.0	16235.1
42.5°	20700.0	20774.9	21021.5	20533.2	20071.5	20443.7	21222.1	24686.3	26035.2	25148.0	17477.6
45°	21618.6	21659.7	21833.8	21623.5	21328.5	22167.4	22617.0	26238.2	28285.8	27425.1	18867.7
47.5°	22585.6	22629.1	22808.0	22667.7	22513.1	23777.4	24072.2	27700.8	30442.0	29927.2	20351.9
50°	23779.8	23808.8	23977.9	23724.2	23772.5	24990.9	25372.8	29042.4	32702.3	32175.3	21841.0
52.5°	25409.1	25416.3	25650.8	25421.2	25193.9	25880.4	26492.1	30306.7	34474.2	34225.2	23330.1
55°	26685.5	26762.8	27531.5	27483.2	27352.7	26687.9	27427.6	31510.5	36055.2	36173.7	24911.1
57.5°	25870.8	26172.9	27729.8	28827.2	29895.7	28696.7	28691.9	32866.7	37525.0	38085.8	26649.2
60°	22658.1	23069.0	25363.2	27797.5	31140.7	32192.2	31317.1	34522.6	39009.2	39981.0	28827.2
62.5°	16181.9	16858.8	19967.5	23854.7	29434.0	34508.1	36659.6	37150.3	41027.8	42176.0	31658.0
65°	8180.4	8692.9	11298.8	15981.3	23516.3	32994.8	42466.1	42903.6	44535.3	45555.5	36016.5
67.5°	4970.1	5163.5	6435.0	8888.7	14417.3	25701.6	44361.3	52493.4	51323.3	51864.8	42231.6
70°	3662.3	3805.0	4597.8	5903.2	8291.6	15082.0	38545.1	59337.0	58568.3	58507.8	46824.6
72°	2852.5	2956.5	3657.5	4769.5	6062.8	9048.2	27937.7	56810.8	60642.4	60337.7	46404.0
72.5°	2705.0	2796.9	3435.1	4489.0	5729.2	8202.2	25119.0	55106.5	60492.5	60354.7	45860.1
75°	2129.7	2195.0	2543.1	3471.3	4484.3	4653.5	13764.5	42705.4	53663.4	55894.6	41247.7
77.5°	1762.3	1771.9	1955.7	2526.2	3495.5	3290.0	6761.5	29629.8	38426.6	40880.3	29218.8
80°	1435.9	1448.0	1535.0	1771.9	2644.6	2434.3	3210.3	17037.7	21514.7	21541.3	13895.1
82.5°	1143.4	1145.8	1242.5	1295.7	1900.1	1740.5	1839.6	7999.1	9401.2	9043.4	4994.3
85°	805.0	788.1	1213.5	1063.6	1242.5	1116.8	1015.3	3166.8	3887.2	3717.9	1564.1
87.5°	268.3	278.0	539.1	689.0	725.2	633.4	452.1	1213.5	1467.4	1455.3	495.6
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°	8637.3	8637.3	8637.3	8637.3	8637.3	8637.3	8637.3	8637.3	8637.3	8637.3	8637.3
2.5°	8680.8	8603.5	8489.8	8364.1	8265.1	8163.5	8088.5	8049.9	8006.4	7970.1	8013.6
5°	8772.7	8627.6	8385.9	8149.0	7975.0	7820.2	7709.0	7651.0	7597.8	7561.6	7566.4
7.5°	8922.5	8688.1	8281.9	7936.2	7694.5	7527.7	7414.1	7375.4	7341.6	7331.9	7344.0
10°	9082.1	8736.4	8144.1	7684.8	7409.3	7271.5	7220.7	7247.3	7271.5	7293.3	7317.4
12.5°	9263.4	8779.9	7943.5	7390.0	7155.4	7102.3	7153.0	7269.1	7353.6	7404.4	7435.9
15°	9500.3	8818.6	7711.4	7095.0	6937.9	6998.3	7169.9	7370.6	7518.1	7612.3	7626.9
17.5°	9717.9	8816.2	7414.1	6797.7	6761.5	6937.9	7196.6	7479.4	7677.6	7810.6	7837.1
20°	9942.7	8750.9	7068.4	6507.6	6582.5	6872.6	7208.6	7549.4	7788.8	7943.5	7979.7
22.5°	10153.0	8637.3	6688.9	6244.1	6432.6	6785.6	7162.7	7508.4	7747.7	7873.4	7912.1
25°	10295.7	8439.1	6304.5	6021.7	6299.7	6679.2	7012.8	7290.9	7469.7	7532.6	7542.2
27.5°	10368.1	8180.4	5941.9	5828.3	6161.9	6505.2	6734.8	6872.6	6923.4	6918.5	6908.8
30°	10377.8	7839.5	5630.1	5671.2	6002.3	6248.9	6357.7	6331.1	6265.9	6154.6	6164.3
32.5°	10346.4	7455.2	5369.0	5521.3	5799.3	5937.1	5941.9	5813.8	5639.8	5463.2	5414.9
35°	10356.0	7078.1	5139.3	5352.1	5552.7	5613.1	5557.5	5369.0	5132.1	4904.9	4856.5
37.5°	10462.4	6749.3	4941.1	5156.3	5279.5	5294.1	5214.2	5016.1	4842.0	4619.6	4600.3
40°	10716.2	6514.9	4752.6	4936.3	5006.4	5013.7	4900.0	4759.8	4774.4	4655.9	4653.5
42.5°	11173.2	6413.3	4585.7	4706.6	4750.1	4764.7	4677.7	4588.2	4713.9	4636.5	4609.9
45°	11762.9	6437.5	4445.5	4481.9	4561.6	4629.3	4576.1	4467.3	4515.7	4179.7	4068.4
47.5°	12444.6	6592.2	4334.4	4288.5	4426.2	4554.3	4472.2	4307.8	4136.2	3802.6	3739.7
50°	13242.4	6831.5	4232.9	4097.4	4278.8	4452.8	4370.6	4136.2	3877.5	3715.5	3693.8
52.5°	14074.0	7124.0	4131.3	3887.2	4092.7	4375.5	4334.4	4097.4	3778.4	3618.8	3589.8
55°	15016.7	7418.9	4003.1	3643.0	3892.0	4339.1	4317.4	3957.2	3703.5	3613.9	3592.2
57.5°	16189.2	7754.9	3834.0	3389.2	3703.5	4208.6	4141.0	3872.6	3626.0	3558.4	3551.2
60°	17717.0	8250.5	3589.8	3118.4	3473.7	4008.0	3993.5	3749.4	3502.8	3454.5	3444.8
62.5°	20008.6	9070.0	3253.8	2847.6	3217.6	3667.1	3800.2	3582.5	3372.2	3369.8	3374.6
65°	23562.2	10302.8	2888.7	2610.8	2958.9	3379.5	3575.3	3411.0	3239.3	3287.6	3294.9
67.5°	27681.4	11325.4	2531.0	2378.7	2695.3	3106.3	3372.2	3239.3	3062.8	3188.5	3190.9
70°	29052.1	10411.6	2216.7	2149.1	2422.2	2842.8	3152.3	3050.7	2871.9	2997.5	2985.4
72°	27035.9	8405.3	2013.6	1975.0	2216.7	2625.3	2956.5	2874.3	2697.8	2782.4	2751.0
72.5°	26400.2	8013.6	1963.0	1931.5	2161.1	2569.7	2905.7	2830.8	2654.3	2726.8	2697.8
75°	23550.1	6959.6	1687.3	1694.6	1885.5	2299.0	2620.4	2596.2	2414.9	2422.2	2412.5
77.5°	17081.2	5103.1	1421.4	1469.8	1605.1	2020.9	2332.8	2318.2	2120.0	2083.8	2076.5
80°	7926.6	2603.5	1157.9	1179.7	1319.9	1689.7	1989.5	1970.1	1810.6	1764.7	1738.1
82.5°	2714.7	1237.7	870.3	884.8	1022.6	1361.0	1726.0	1714.0	1580.9	1491.5	1435.9
85°	969.4	616.4	609.1	594.7	730.1	1070.9	1503.6	1438.3	1242.5	1058.8	1054.0
87.5°	314.3	263.5	314.3	311.9	425.4	725.2	1092.6	930.7	901.6	749.4	734.9
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)