

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: P191086

Luminaire Tested: **GLEON-AF-08-LED-E1-SL2-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191086  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24286)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GLEON-AF-08-LED-E1-SL2-800  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 38624.6 lumens  
Efficiency: N/A  
Efficacy: 115.6 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Short - Semi-Cutoff  
BUG Rating: B3 - U0 - G5

Input Watts (W): 334  
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: 25 FT

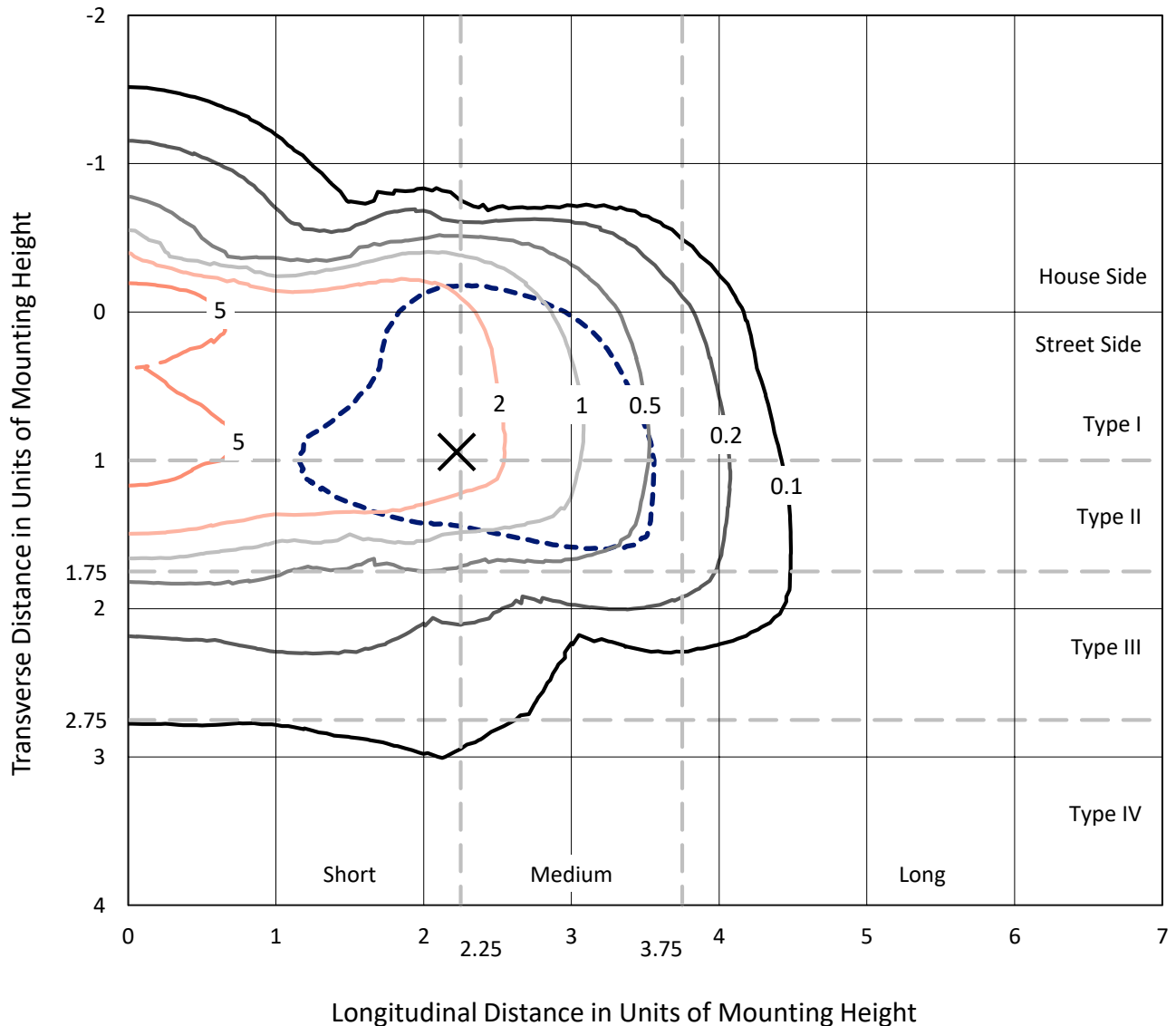


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### Iso-Footcandle Lines of Horizontal Illumination

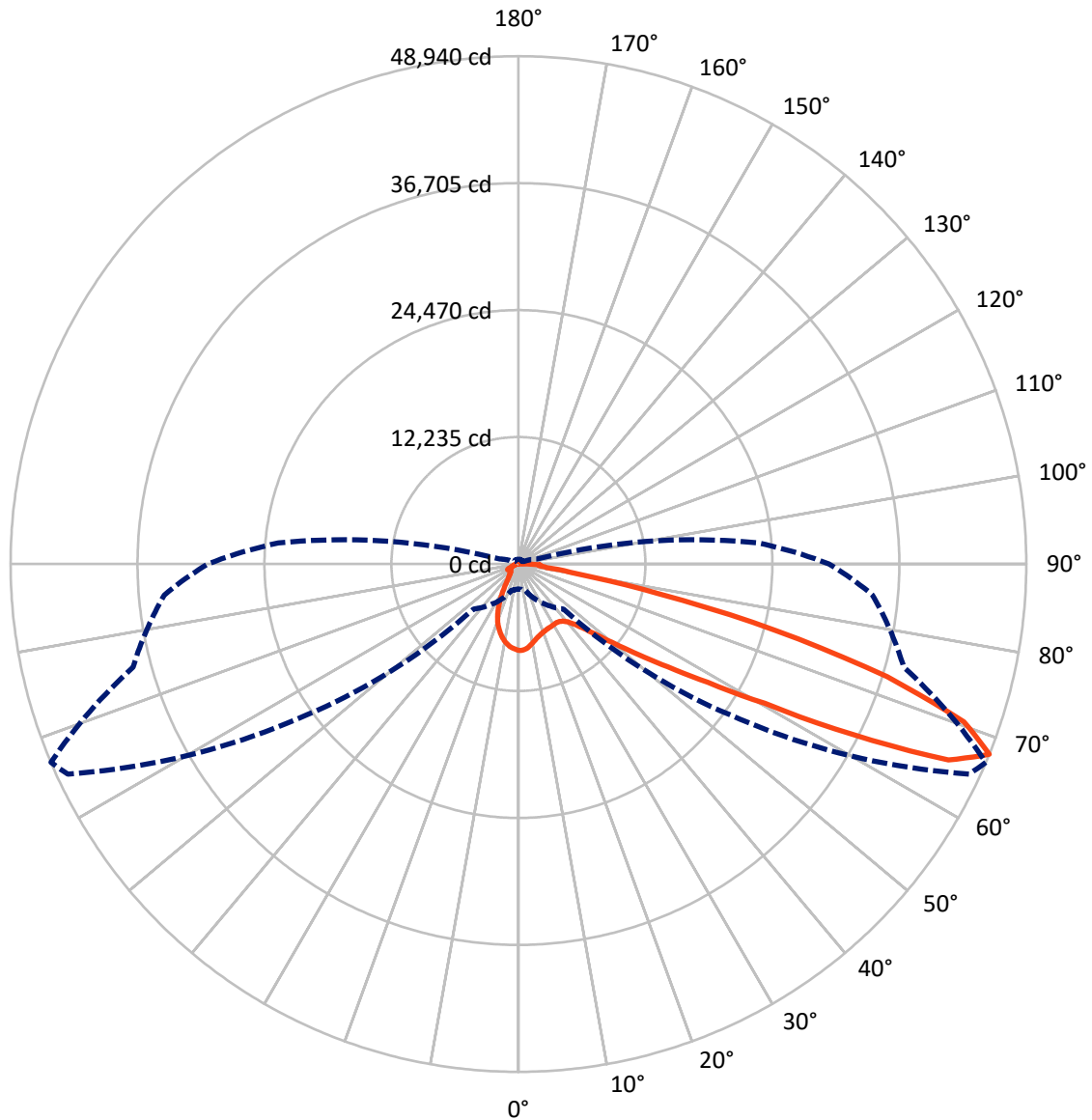
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.3 fc  
 Type II - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6399.7	0.0	6399.7
	% Fixture	16.6	0.0	16.6
<b>Street Side</b>	Lumens	32224.9	0.0	32224.9
	% Fixture	83.4	0.0	83.4
<b>Total</b>	Lumens	38624.6	0.0	38624.6
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	710.8	1.8
10°-20°	1644.6	4.3
20°-30°	2229.3	5.8
30°-40°	3169.2	8.2
40°-50°	5302.2	13.7
50°-60°	8388.1	21.7
60°-70°	10685.6	27.7
70°-80°	5597.1	14.5
80°-90°	897.7	2.3
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°	38624.6	100.0
0°-180°	38624.6	100.0



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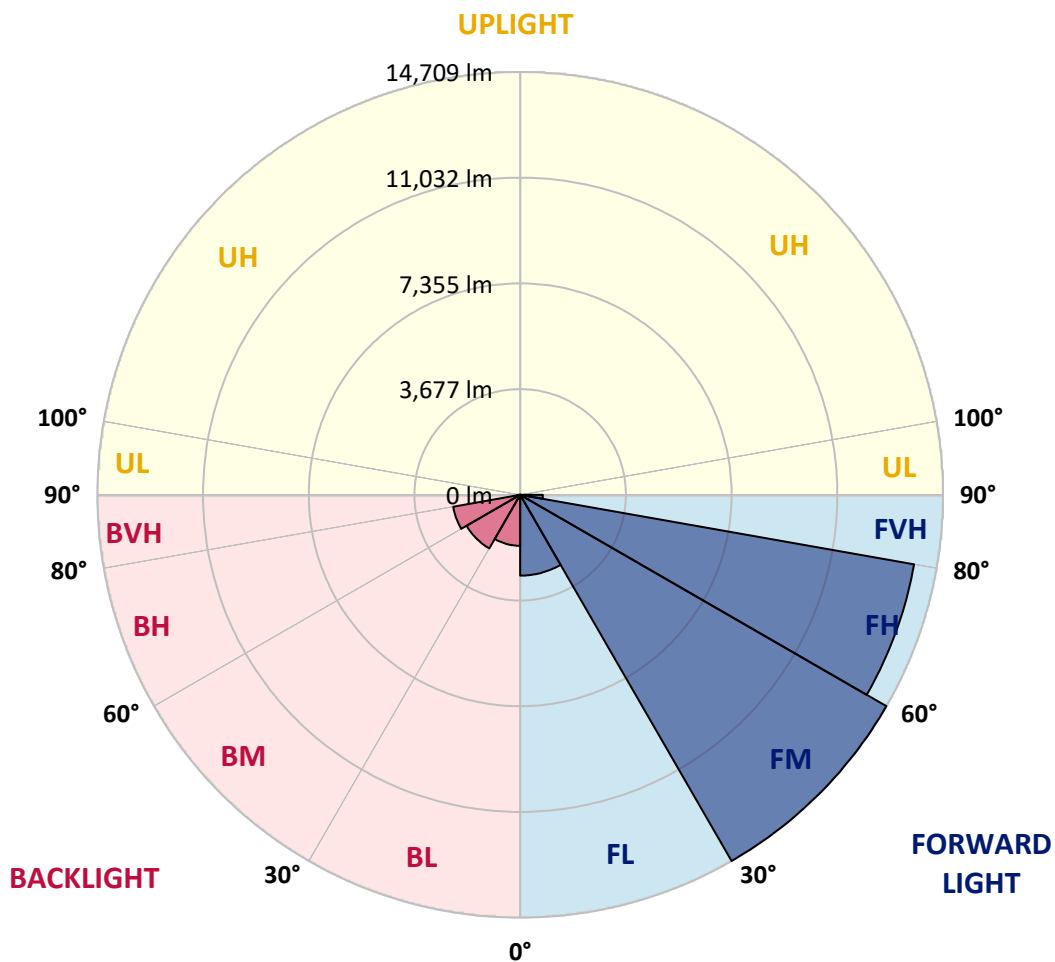
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2810.9	7.3			
FM	(30°-60°)	14709.0	38.1			
FH	(60°-80°)	13915.6	36.0			G5
FVH	(80°-90°)	789.3	2.0			G5
BL	(0°-30°)	1773.8	4.6	B3/2500		
BM	(30°-60°)	2150.5	5.6	B2/2500		
BH	(60°-80°)	2367.0	6.1	B3/2500		G3/2500
BVH	(80°-90°)	108.4	0.3			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	8331.2	8331.2	8331.2	8331.2	8331.2	8331.2	8331.2	8331.2	8331.2	8331.2	8331.2
2.5°	7988.4	8001.7	8043.6	8070.3	8190.3	8241.7	8277.9	8314.1	8319.8	8336.9	8319.8
5°	7150.3	7178.9	7257.0	7344.6	7577.0	7759.8	7952.2	8152.2	8188.4	8317.9	8354.1
7.5°	6500.8	6493.2	6557.9	6662.7	6900.8	7154.1	7491.3	7889.3	7967.5	8258.9	8399.8
10°	6026.5	6020.8	6089.4	6198.0	6424.6	6664.6	7045.6	7590.3	7700.8	8165.5	8443.6
12.5°	5676.0	5678.0	5746.5	5866.5	6097.0	6338.9	6725.6	7300.8	7441.8	8057.0	8489.4
15°	5443.6	5458.9	5514.1	5641.8	5866.5	6108.4	6487.5	7083.6	7241.8	7971.2	8540.7
17.5°	5365.6	5390.3	5409.4	5502.8	5695.1	5937.0	6308.4	6923.6	7091.3	7912.2	8586.4
20°	5438.0	5466.5	5430.3	5462.8	5584.6	5798.0	6167.5	6797.9	6969.4	7845.5	8592.2
22.5°	5748.5	5775.1	5668.5	5575.1	5567.5	5697.0	6051.3	6698.9	6876.1	7796.0	8594.1
25°	6295.0	6312.2	6133.2	5916.0	5704.6	5660.8	5969.4	6630.4	6818.9	7752.2	8557.9
27.5°	6965.6	6978.9	6773.2	6453.2	6028.5	5746.5	5940.8	6590.4	6786.5	7714.1	8496.9
30°	7780.8	7843.6	7567.5	7163.6	6544.6	5999.8	5998.0	6569.4	6750.4	7649.3	8376.9
32.5°	8615.0	8641.7	8451.2	8041.7	7239.8	6445.5	6158.0	6584.6	6740.8	7571.3	8224.5
35°	9460.8	9495.0	9371.3	9041.7	8190.3	7098.9	6470.4	6674.1	6799.9	7544.6	8117.9
37.5°	10555.9	10601.7	10430.2	10049.3	9346.4	7984.5	6990.3	6898.9	6980.8	7620.8	8085.5
40°	12287.3	12266.4	11765.5	11197.8	10611.2	9117.9	7733.1	7279.8	7327.4	7866.5	8184.5
42.5°	14302.5	14251.0	13388.3	12496.9	12001.6	10489.2	8716.0	7940.8	7931.2	8350.2	8533.1
45°	15910.1	15868.2	15091.1	13992.0	13595.8	12051.2	9986.5	8925.5	8855.1	9117.9	9176.9
47.5°	16780.6	16782.4	16334.9	15437.8	15428.2	14035.8	11618.8	10350.2	10228.3	10352.2	10289.2
50°	16475.7	16515.7	16468.2	16182.5	17100.6	16637.7	13750.1	12336.9	12091.2	12213.0	11971.2
52.5°	15001.6	15052.9	15334.9	15773.0	17803.3	19782.3	16881.5	14805.4	14519.7	14475.9	14207.3
55°	12388.2	12451.2	13026.4	14216.8	17218.6	21894.7	21822.3	17952.0	17496.8	17083.4	16969.1
57.5°	8538.9	8643.6	9569.3	11336.9	15327.3	22532.7	27706.0	22437.5	21511.8	20068.0	20094.7
60°	4813.2	4935.1	6026.5	7632.2	11510.2	21839.5	32182.0	29231.6	27277.4	23563.3	23761.3
62.5°	3060.9	3192.3	4020.8	5302.8	6906.5	18106.2	34016.3	38677.2	36195.3	27871.7	28066.0
65°	2478.0	2535.2	2925.6	4377.0	5015.1	10908.3	32623.9	46457.9	45532.3	33340.1	32433.5
67.5°	2419.0	2438.0	2639.9	3674.2	4809.4	6131.3	26022.2	47913.2	48939.8	38446.7	34252.5
70°	2390.4	2457.1	2975.2	3506.6	4605.6	5171.3	15637.7	43924.7	45545.6	39781.9	31831.6
72.5°	1159.9	1156.1	1497.1	3171.4	5188.4	5363.6	8034.1	35540.1	37166.7	34465.9	26157.5
75°	935.2	855.2	817.1	1161.9	4988.4	5538.9	5119.9	24454.7	25631.8	23108.0	16079.6
77.5°	887.6	792.4	725.7	727.6	2108.5	5874.2	4337.0	13534.9	13877.8	10437.9	4405.6
80°	735.2	647.6	600.0	676.2	1020.9	5594.1	4689.4	6125.5	5620.8	2563.7	1466.6
82.5°	510.5	464.7	451.4	567.6	817.1	3986.5	5453.2	3291.3	2759.9	1283.8	904.7
85°	325.7	278.0	308.5	413.4	636.2	1840.0	5617.0	2565.7	2040.0	815.2	510.5
87.5°	150.5	121.9	152.4	228.5	415.2	634.2	5344.6	2881.9	2100.9	430.5	321.9
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°	8331.2	8331.2	8331.2	8331.2	8331.2	8331.2	8331.2	8331.2	8331.2	8331.2	8331.2
2.5°	8335.0	8298.9	8270.3	8217.0	8157.9	8100.7	8049.3	7984.5	7965.5	7948.3	7975.0
5°	8361.7	8325.5	8220.7	8057.0	7876.0	7706.5	7537.0	7392.3	7302.6	7253.1	7281.8
7.5°	8401.7	8350.2	8133.2	7832.2	7506.5	7209.3	6902.7	6657.0	6476.0	6390.3	6415.1
10°	8437.9	8338.9	7984.5	7533.1	7056.9	6615.1	6131.3	5731.3	5434.1	5278.0	5316.1
12.5°	8453.2	8295.0	7777.0	7159.8	6506.5	5859.0	5146.6	4548.4	4121.8	3965.6	3933.2
15°	8468.4	8245.5	7548.4	6735.1	5841.8	4925.6	3927.5	3211.3	2857.1	2778.9	2761.9
17.5°	8472.2	8159.8	7289.3	6274.2	5062.7	3815.1	2685.7	2230.4	2232.3	2358.0	2373.2
20°	8432.2	8032.2	6975.1	5700.8	4129.4	2638.0	1843.8	1765.7	2053.3	2367.5	2405.7
22.5°	8340.7	7862.7	6618.9	5032.3	3060.9	1737.1	1426.6	1512.3	1883.8	2268.5	2312.3
25°	8224.5	7657.0	6198.0	4257.0	2026.6	1241.9	1196.1	1300.9	1552.3	1809.5	1834.3
27.5°	8066.5	7413.1	5725.6	3369.4	1316.1	1022.8	1053.3	1123.8	1226.6	1340.9	1352.3
30°	7862.7	7121.7	5220.8	2457.1	994.3	919.9	963.8	1001.9	1045.7	1110.4	1116.1
32.5°	7628.3	6841.7	4702.7	1697.1	881.9	866.6	900.9	919.9	954.3	994.3	998.1
35°	7432.2	6575.1	4165.7	1199.9	834.2	826.6	849.5	857.1	889.5	933.3	937.1
37.5°	7319.8	6357.9	3611.3	967.6	801.9	790.4	803.8	803.8	849.5	914.3	923.8
40°	7327.4	6238.0	3057.1	874.2	775.2	760.0	761.9	761.9	820.9	891.4	897.1
42.5°	7535.1	6268.4	2565.7	838.1	754.2	737.1	727.6	733.4	782.9	828.6	832.4
45°	8022.7	6483.7	2104.7	815.2	733.4	727.6	706.7	704.7	723.8	744.7	744.7
47.5°	8822.6	6908.4	1792.3	799.9	716.2	714.2	689.5	664.7	662.9	670.4	670.4
50°	10123.5	7639.8	1582.8	782.9	704.7	689.5	660.9	622.9	609.5	615.2	615.2
52.5°	12074.0	8944.6	1502.8	760.0	680.0	655.2	622.9	584.7	573.4	575.2	575.2
55°	14632.0	10948.3	1491.4	733.4	653.4	613.4	586.7	558.1	544.7	548.6	548.6
57.5°	17757.7	13719.7	1695.2	691.4	617.1	571.4	556.2	537.2	527.6	533.4	531.4
60°	21557.6	17346.3	2514.2	647.6	580.9	533.4	533.4	518.1	510.5	516.2	514.2
62.5°	25934.6	21511.8	3535.1	615.2	542.9	502.9	510.5	502.9	495.2	499.0	497.2
65°	29816.5	24226.0	3310.4	590.4	504.7	474.2	487.6	483.8	478.1	481.9	480.0
67.5°	29928.8	23220.4	1859.0	563.7	468.5	445.7	464.7	462.9	459.0	462.9	460.9
70°	26709.9	19607.1	1047.6	514.2	430.5	411.4	438.1	436.2	432.4	440.0	438.1
72.5°	21399.5	14228.2	765.7	453.4	392.4	375.2	405.7	403.8	403.8	415.2	409.5
75°	12314.0	7321.8	611.4	388.5	352.4	339.0	365.7	367.6	371.4	386.7	375.2
77.5°	3510.4	2281.9	499.0	329.5	302.9	297.2	323.8	327.7	329.5	346.7	331.4
80°	1304.8	1051.4	411.4	276.2	247.7	249.5	274.3	280.0	281.9	299.0	280.0
82.5°	832.4	693.4	333.3	213.3	194.3	192.4	222.9	230.5	230.5	232.4	221.0
85°	485.7	415.2	251.4	154.3	137.2	131.4	165.7	179.0	173.3	169.5	161.9
87.5°	325.7	285.7	154.3	85.7	74.3	70.5	97.2	106.7	102.8	97.2	91.5
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)