

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: P193627

Luminaire Tested: **GLEON-AF-09-LED-E1-SL2-8030-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P193627  
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-09-LED-E1-SL2-8030-800  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 80 CRI, 3000K, 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: 34368 lumens  
Efficiency: N/A  
Efficacy: 91.9 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type II - Short - Semi-Cutoff  
BUG Rating: B3 - U0 - G5

Input Watts (W): 374  
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

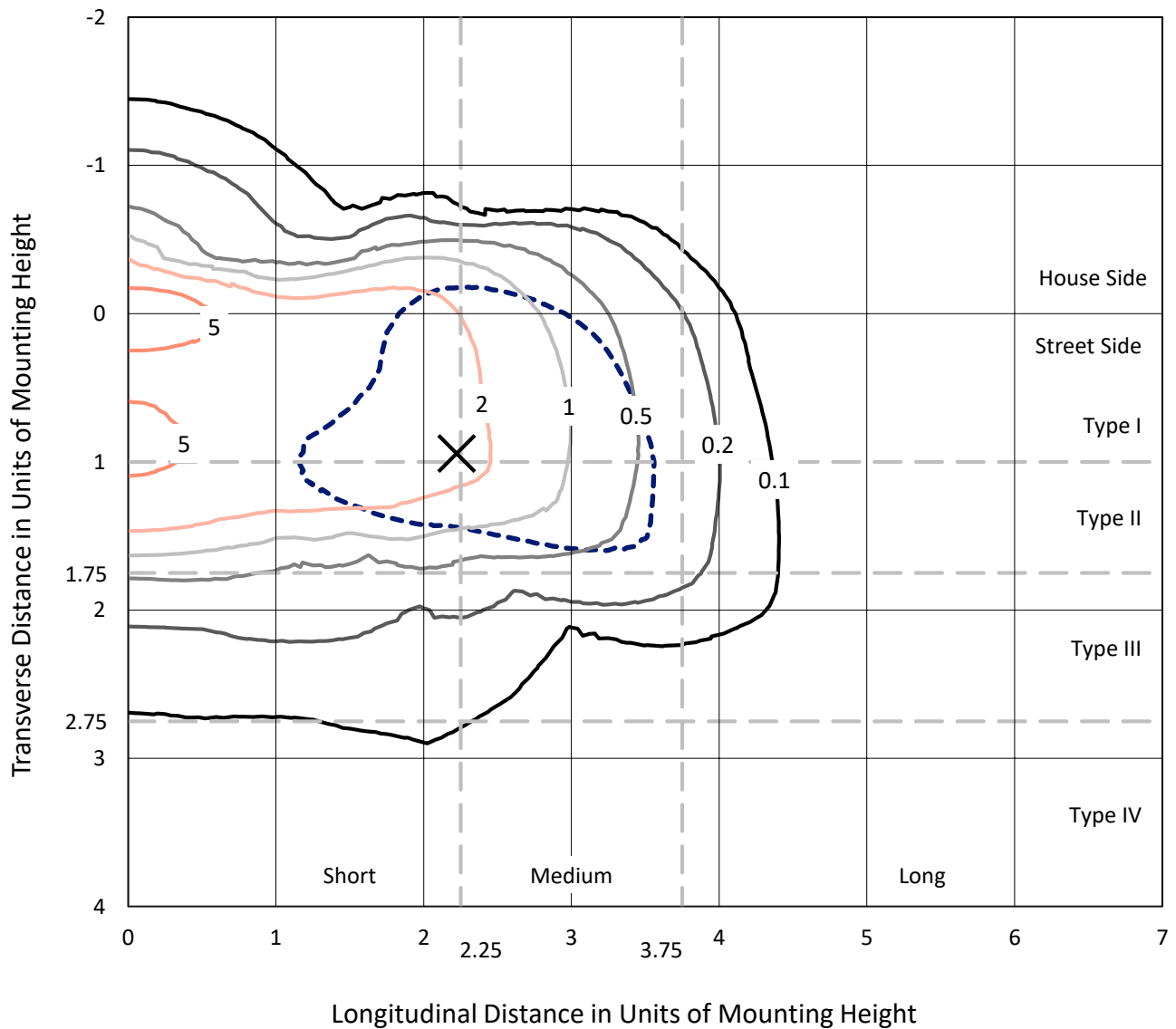


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

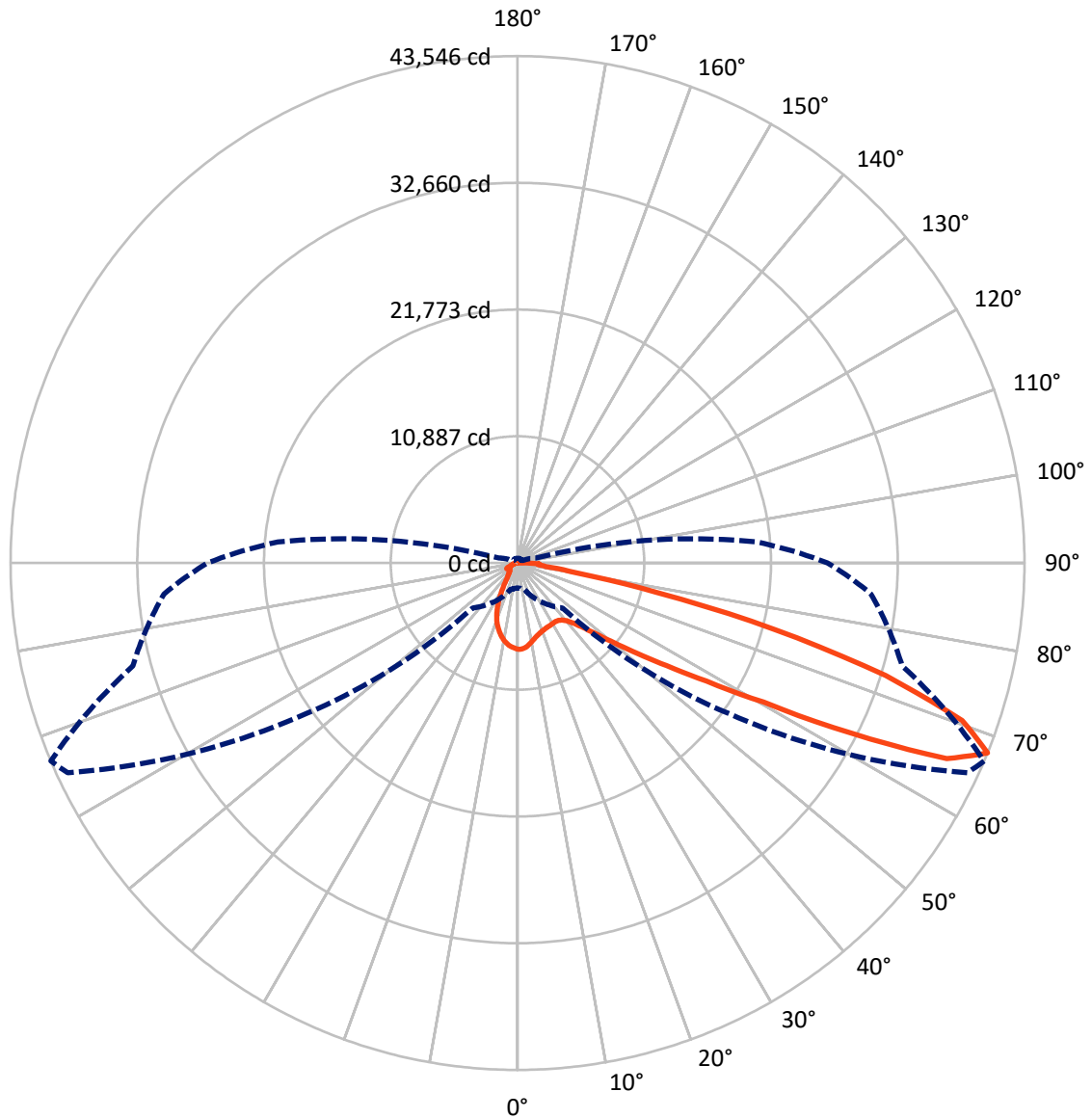


Based on 30 foot mounting height. Maximum calculated value = 8.2 fc  
 Type II - Short - Semi-Cutoff

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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	5694.4	0.0	5694.4
	% Fixture	16.6	0.0	16.6
<b>Street Side</b>	Lumens	28673.6	0.0	28673.6
	% Fixture	83.4	0.0	83.4
<b>Total</b>	Lumens	34368.0	0.0	34368.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	632.5	1.8
10°-20°	1463.4	4.3
20°-30°	1983.6	5.8
30°-40°	2820.0	8.2
40°-50°	4717.9	13.7
50°-60°	7463.7	21.7
60°-70°	9508.0	27.7
70°-80°	4980.3	14.5
80°-90°	798.7	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°	34368.0	100.0
0°-180°	34368.0	100.0

**Coefficient of Utilization**



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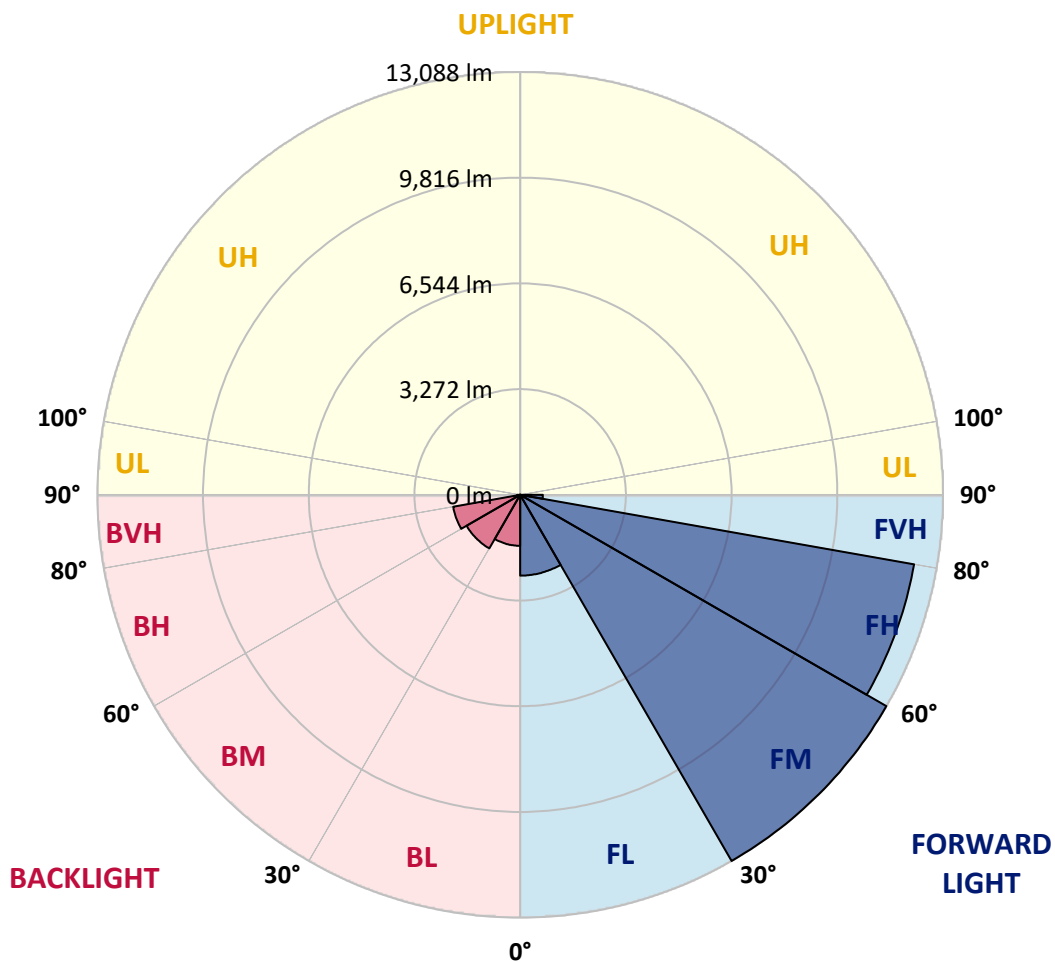
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2501.2	7.3			
FM	(30°-60°)	13088.0	38.1			
FH	(60°-80°)	12382.1	36.0			G5
FVH	(80°-90°)	702.3	2.0			G4/750
BL	(0°-30°)	1578.3	4.6	B3/2500		
BM	(30°-60°)	1913.5	5.6	B2/2500		
BH	(60°-80°)	2106.2	6.1	B3/2500		G3/2500
BVH	(80°-90°)	96.4	0.3			G1/100
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°	7413.1	7413.1	7413.1	7413.1	7413.1	7413.1	7413.1	7413.1	7413.1	7413.1	7413.1
2.5°	7108.0	7119.9	7157.2	7180.9	7287.7	7333.4	7365.6	7397.8	7402.9	7418.2	7402.9
5°	6362.3	6387.7	6457.2	6535.2	6741.9	6904.7	7075.8	7253.8	7286.0	7401.2	7433.4
7.5°	5784.4	5777.6	5835.2	5928.4	6140.3	6365.7	6665.7	7019.9	7089.4	7348.7	7474.1
10°	5362.4	5357.3	5418.3	5514.9	5716.6	5930.1	6269.1	6753.8	6852.1	7265.6	7513.1
12.5°	5050.5	5052.2	5113.2	5220.0	5425.1	5640.3	5984.4	6496.2	6621.6	7169.0	7553.8
15°	4843.8	4857.3	4906.5	5020.0	5220.0	5435.3	5772.5	6303.0	6443.7	7092.8	7599.5
17.5°	4774.3	4796.3	4813.3	4896.3	5067.5	5282.7	5613.2	6160.6	6309.8	7040.2	7640.2
20°	4838.7	4864.1	4831.9	4860.7	4969.2	5159.0	5487.8	6048.8	6201.3	6980.9	7645.3
22.5°	5114.9	5138.7	5043.8	4960.7	4953.9	5069.2	5384.4	5960.6	6118.3	6936.9	7647.0
25°	5601.3	5616.6	5457.3	5264.1	5076.0	5037.0	5311.5	5899.6	6067.4	6897.9	7614.8
27.5°	6197.9	6209.8	6026.7	5742.0	5364.1	5113.2	5286.1	5864.0	6038.6	6864.0	7560.5
30°	6923.3	6979.2	6733.5	6374.2	5823.4	5338.6	5337.0	5845.4	6006.4	6806.4	7453.8
32.5°	7665.6	7689.3	7519.9	7155.5	6442.0	5735.2	5479.3	5859.0	5997.9	6736.9	7318.2
35°	8418.1	8448.6	8338.5	8045.3	7287.7	6316.6	5757.3	5938.6	6050.5	6713.1	7223.3
37.5°	9392.6	9433.3	9280.8	8941.8	8316.4	7104.6	6219.9	6138.6	6211.5	6780.9	7194.5
40°	10933.2	10914.6	10468.8	9963.8	9441.8	8113.0	6880.9	6477.6	6519.9	6999.6	7282.6
42.5°	12726.3	12680.6	11912.8	11119.6	10679.0	9333.3	7755.4	7065.7	7057.2	7430.0	7592.7
45°	14156.7	14119.5	13428.0	12450.1	12097.5	10723.1	8885.9	7941.9	7879.2	8113.0	8165.6
47.5°	14931.3	14933.0	14534.7	13736.4	13728.0	12489.0	10338.3	9209.6	9101.1	9211.3	9155.4
50°	14660.1	14695.7	14653.3	14399.1	15216.0	14804.2	12234.8	10977.3	10758.6	10867.1	10651.9
52.5°	13348.3	13394.1	13644.9	14034.7	15841.4	17602.3	15021.1	13173.7	12919.5	12880.5	12641.6
55°	11023.0	11079.0	11590.8	12650.1	15321.1	19481.8	19417.4	15973.6	15568.5	15200.7	15099.1
57.5°	7597.8	7691.0	8514.7	10087.5	13638.1	20049.6	24652.7	19964.8	19141.2	17856.5	17880.2
60°	4282.8	4391.2	5362.4	6791.1	10241.7	19432.7	28635.5	26010.2	24271.4	20966.5	21142.7
62.5°	2723.6	2840.5	3577.7	4718.3	6145.4	16110.9	30267.6	34414.8	32206.5	24800.1	24973.0
65°	2204.9	2255.8	2603.2	3894.7	4462.4	9706.2	29028.7	41338.1	40514.4	29665.9	28859.2
67.5°	2152.4	2169.4	2349.0	3269.3	4279.4	5455.6	23154.5	42632.9	43546.4	34209.7	30477.7
70°	2127.0	2186.3	2647.3	3120.1	4098.0	4601.4	13914.4	39084.0	40526.3	35397.8	28323.6
72.5°	1032.1	1028.7	1332.1	2821.9	4616.7	4772.6	7148.7	31623.4	33070.8	30667.6	23274.8
75°	832.2	761.0	727.1	1033.8	4438.7	4928.5	4555.6	21759.6	22807.0	20561.4	14307.6
77.5°	789.8	705.0	645.7	647.4	1876.2	5226.8	3859.1	12043.3	12348.4	9287.6	3920.1
80°	654.2	576.2	533.9	601.7	908.4	4977.7	4172.6	5450.5	5001.4	2281.2	1305.0
82.5°	454.2	413.5	401.7	505.1	727.1	3547.2	4852.2	2928.6	2455.8	1142.3	805.0
85°	289.8	247.4	274.6	367.8	566.1	1637.2	4998.0	2282.9	1815.1	725.4	454.2
87.5°	133.9	108.5	135.6	203.4	369.5	564.4	4755.6	2564.2	1869.4	383.0	286.4
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°	7413.1	7413.1	7413.1	7413.1	7413.1	7413.1	7413.1	7413.1	7413.1	7413.1	7413.1
2.5°	7416.5	7384.3	7358.9	7311.4	7258.9	7208.0	7162.3	7104.6	7087.7	7072.4	7096.2
5°	7440.2	7408.0	7314.8	7169.0	7008.0	6857.2	6706.4	6577.6	6497.9	6453.8	6479.3
7.5°	7475.8	7430.0	7236.8	6969.1	6679.2	6414.9	6142.0	5923.4	5762.3	5686.1	5708.1
10°	7508.0	7419.9	7104.6	6703.0	6279.3	5886.1	5455.6	5099.7	4835.3	4696.3	4730.2
12.5°	7521.6	7380.9	6919.9	6370.8	5789.5	5213.2	4579.4	4047.2	3667.6	3528.6	3499.8
15°	7535.1	7336.8	6716.5	5992.8	5198.0	4382.8	3494.7	2857.4	2542.2	2472.7	2457.5
17.5°	7538.5	7260.6	6486.0	5582.7	4504.8	3394.7	2389.7	1984.6	1986.3	2098.2	2111.7
20°	7502.9	7147.0	6206.4	5072.6	3674.3	2347.3	1640.6	1571.1	1827.0	2106.6	2140.5
22.5°	7421.6	6996.2	5889.5	4477.7	2723.6	1545.7	1269.4	1345.7	1676.2	2018.5	2057.5
25°	7318.2	6813.1	5514.9	3787.9	1803.3	1105.0	1064.3	1157.6	1381.3	1610.1	1632.1
27.5°	7177.5	6596.2	5094.6	2998.1	1171.1	910.1	937.2	999.9	1091.5	1193.1	1203.3
30°	6996.2	6336.9	4645.5	2186.3	884.7	818.6	857.6	891.5	930.4	988.1	993.2
32.5°	6787.7	6087.8	4184.5	1510.1	784.7	771.1	801.6	818.6	849.1	884.7	888.1
35°	6613.1	5850.5	3706.5	1067.7	742.3	735.5	755.9	762.7	791.5	830.5	833.8
37.5°	6513.1	5657.3	3213.4	861.0	713.5	703.3	715.2	715.2	755.9	813.5	822.0
40°	6519.9	5550.5	2720.2	777.9	689.8	676.2	677.9	677.9	730.5	793.2	798.3
42.5°	6704.7	5577.6	2282.9	745.7	671.1	655.9	647.4	652.5	696.6	737.2	740.6
45°	7138.5	5769.1	1872.8	725.4	652.5	647.4	628.8	627.1	644.0	662.7	662.7
47.5°	7850.4	6147.1	1594.8	711.8	637.2	635.6	613.5	591.5	589.8	596.6	596.6
50°	9007.9	6797.9	1408.4	696.6	627.1	613.5	588.1	554.2	542.3	547.4	547.4
52.5°	10743.4	7958.8	1337.2	676.2	605.0	583.0	554.2	520.3	510.1	511.8	511.8
55°	13019.5	9741.8	1327.0	652.5	581.3	545.7	522.0	496.6	484.7	488.1	488.1
57.5°	15800.7	12207.7	1508.4	615.2	549.1	508.4	494.9	477.9	469.5	474.5	472.9
60°	19181.8	15434.6	2237.1	576.2	516.9	474.5	474.5	461.0	454.2	459.3	457.6
62.5°	23076.5	19141.2	3145.6	547.4	483.0	447.4	454.2	447.4	440.7	444.0	442.3
65°	26530.5	21556.3	2945.6	525.4	449.1	422.0	433.9	430.5	425.4	428.8	427.1
67.5°	26630.5	20661.4	1654.1	501.7	416.9	396.6	413.5	411.8	408.4	411.8	410.1
70°	23766.3	17446.4	932.1	457.6	383.0	366.1	389.8	388.1	384.7	391.5	389.8
72.5°	19041.2	12660.2	681.3	403.4	349.1	333.9	361.0	359.3	359.3	369.5	364.4
75°	10956.9	6514.8	544.0	345.7	313.5	301.7	325.4	327.1	330.5	344.0	333.9
77.5°	3123.5	2030.4	444.0	293.2	269.5	264.4	288.1	291.5	293.2	308.5	294.9
80°	1160.9	935.5	366.1	245.7	220.3	222.0	244.1	249.1	250.8	266.1	249.1
82.5°	740.6	616.9	296.6	189.8	172.9	171.2	198.3	205.1	205.1	206.8	196.6
85°	432.2	369.5	223.7	137.3	122.0	116.9	147.4	159.3	154.2	150.8	144.1
87.5°	289.8	254.2	137.3	76.3	66.1	62.7	86.4	94.9	91.5	86.4	81.4
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)