

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: P191893

Luminaire Tested: **GLEON-AF-05-LED-E1-SL2-7050**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191893  
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-05-LED-E1-SL2-7050  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 5000K, 1050mA 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: 29144 lumens  
Efficiency: N/A  
Efficacy: 104.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short - Semi-Cutoff  
BUG Rating: B3 - U0 - G4

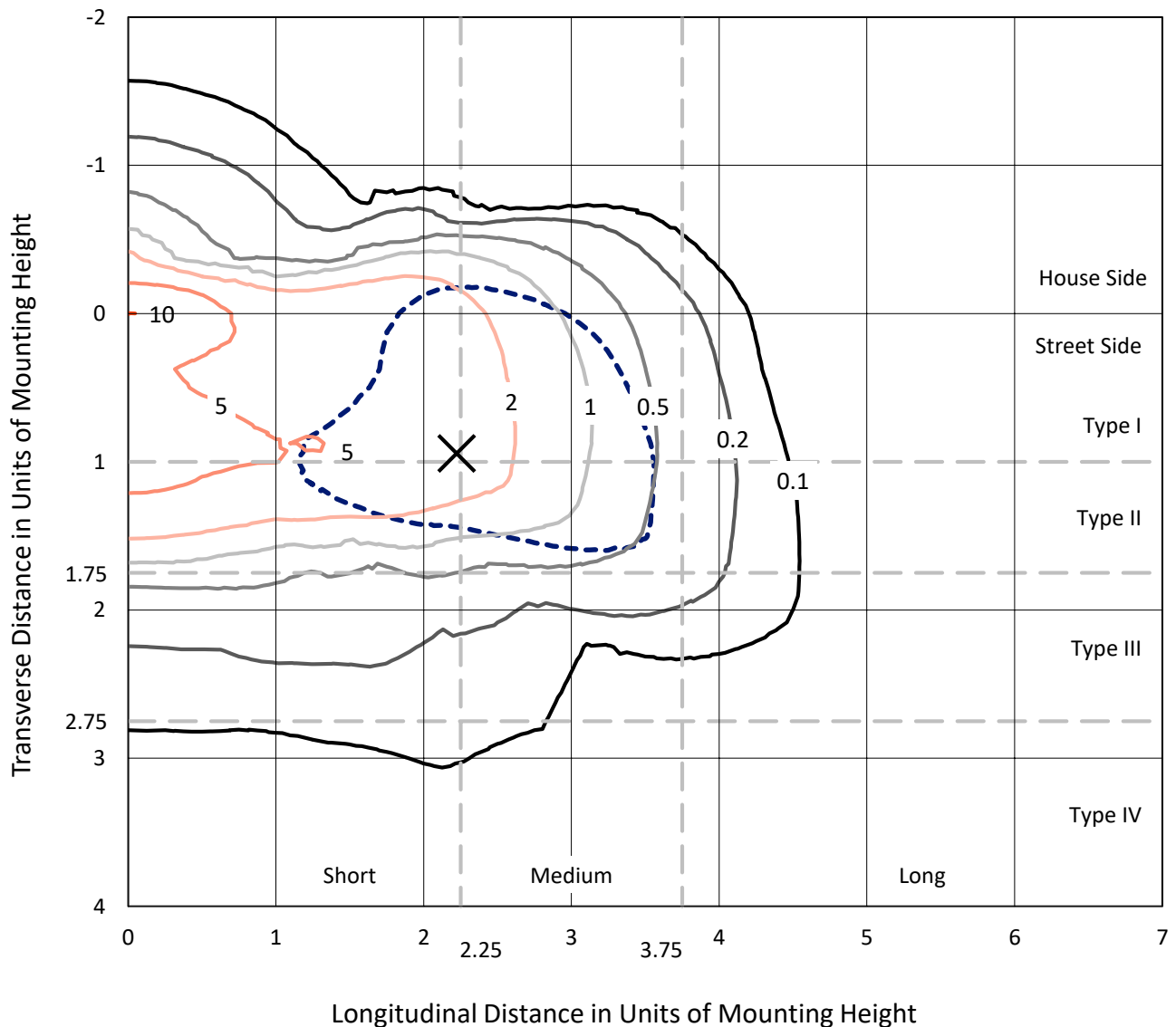
Input Watts (W): 279  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

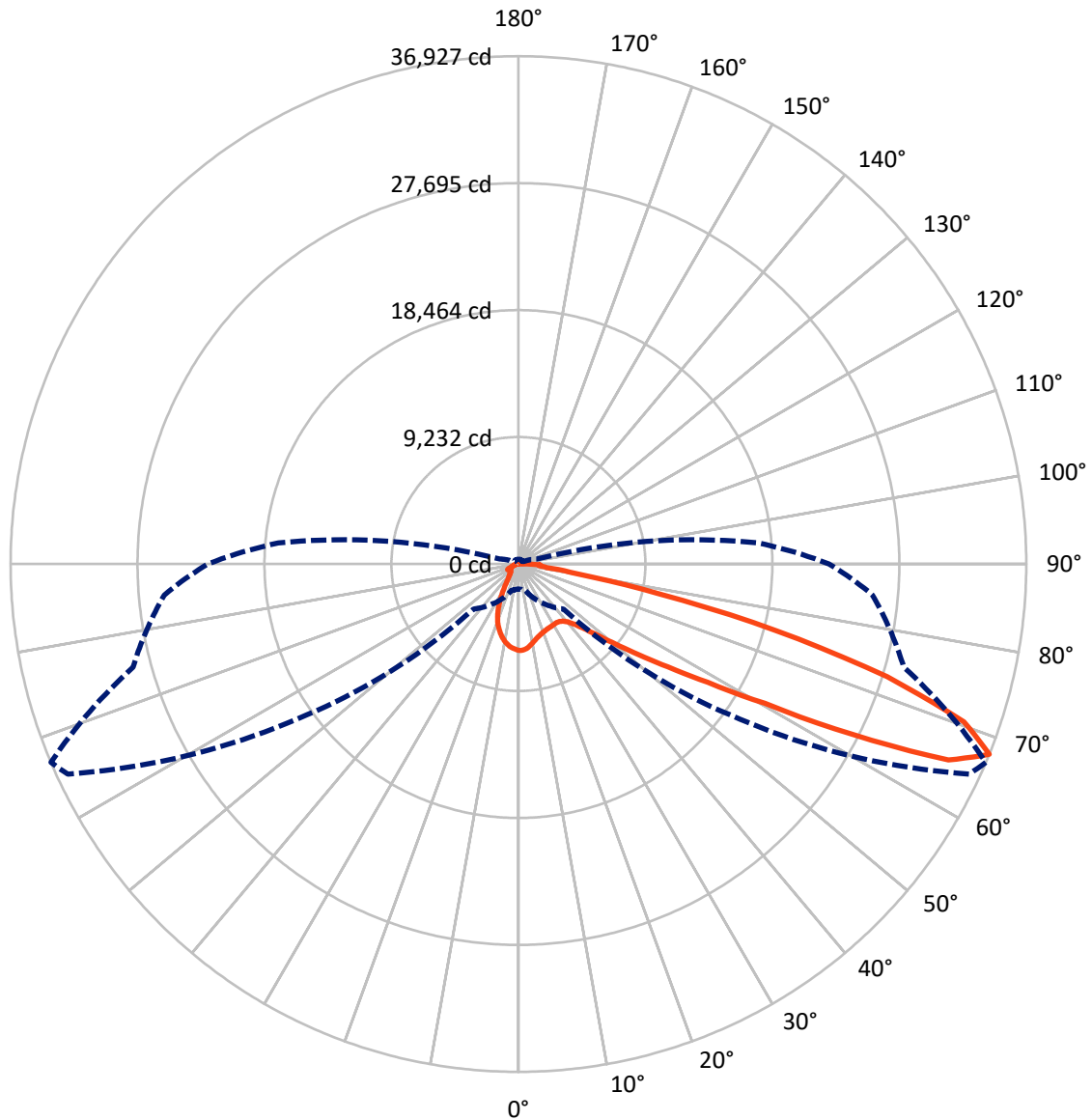
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.1 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	4828.8	0.0	4828.8
	% Fixture	16.6	0.0	16.6
<b>Street Side</b>	Lumens	24315.2	0.0	24315.2
	% Fixture	83.4	0.0	83.4
<b>Total</b>	Lumens	29144.0	0.0	29144.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	536.3	1.8
10°-20°	1240.9	4.3
20°-30°	1682.1	5.8
30°-40°	2391.3	8.2
40°-50°	4000.8	13.7
50°-60°	6329.2	21.7
60°-70°	8062.7	27.7
70°-80°	4223.3	14.5
80°-90°	677.3	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°	29144.0	100.0
0°-180°	29144.0	100.0

**Coefficient of Utilization**



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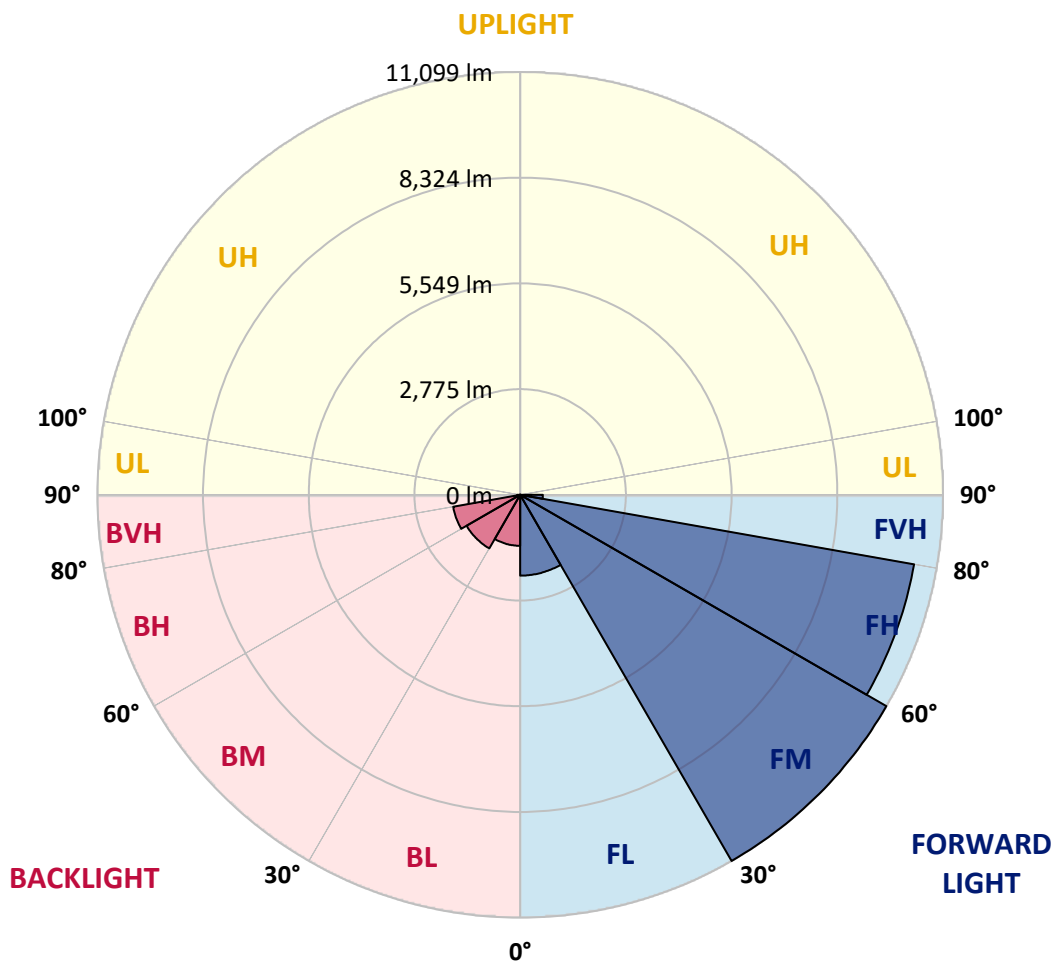
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2121.0	7.3			
FM (30°-60°)	11098.6	38.1			
FH (60°-80°)	10500.0	36.0			G4/12000
FVH (80°-90°)	595.6	2.0			G4/750
BL (0°-30°)	1338.4	4.6	B3/2500		
BM (30°-60°)	1622.6	5.6	B2/2500		
BH (60°-80°)	1786.0	6.1	B3/2500		G3/2500
BVH (80°-90°)	81.8	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-G4**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	6286.3	6286.3	6286.3	6286.3	6286.3	6286.3	6286.3	6286.3	6286.3	6286.3	6286.3
2.5°	6027.6	6037.7	6069.3	6089.4	6179.9	6218.7	6246.0	6273.4	6277.7	6290.6	6277.7
5°	5395.2	5416.8	5475.7	5541.8	5717.2	5855.1	6000.3	6151.2	6178.5	6276.2	6303.5
7.5°	4905.1	4899.4	4948.3	5027.3	5207.0	5398.1	5652.5	5952.9	6011.8	6231.7	6338.0
10°	4547.3	4543.0	4594.7	4676.6	4847.7	5028.7	5316.2	5727.2	5810.6	6161.3	6371.1
12.5°	4282.8	4284.3	4336.0	4426.6	4600.5	4783.0	5074.7	5508.8	5615.1	6079.3	6405.6
15°	4107.5	4119.0	4160.7	4257.0	4426.6	4609.1	4895.1	5344.9	5464.2	6014.7	6444.4
17.5°	4048.6	4067.3	4081.6	4152.1	4297.2	4479.7	4760.0	5224.2	5350.7	5970.1	6478.9
20°	4103.2	4124.7	4097.4	4121.9	4213.9	4374.8	4653.6	5129.3	5258.7	5919.8	6483.2
22.5°	4337.5	4357.6	4277.1	4206.7	4200.9	4298.6	4566.0	5054.6	5188.3	5882.4	6484.6
25°	4749.9	4762.9	4627.8	4463.9	4304.4	4271.3	4504.2	5002.9	5145.2	5849.4	6457.3
27.5°	5255.8	5265.9	5110.7	4869.2	4548.7	4336.0	4482.6	4972.7	5120.7	5820.6	6411.3
30°	5870.9	5918.4	5710.0	5405.3	4938.2	4527.2	4525.7	4956.9	5093.4	5771.8	6320.8
32.5°	6500.4	6520.6	6376.8	6067.8	5462.8	4863.5	4646.5	4968.4	5086.2	5712.8	6205.8
35°	7138.5	7164.4	7071.0	6822.4	6179.9	5356.4	4882.2	5035.9	5130.8	5692.7	6125.3
37.5°	7964.9	7999.4	7870.1	7582.6	7052.3	6024.7	5274.5	5205.5	5267.3	5750.2	6100.9
40°	9271.3	9255.5	8877.6	8449.3	8006.6	6879.9	5835.0	5493.0	5528.9	5935.6	6175.6
42.5°	10791.9	10753.1	10102.0	9429.4	9055.8	7914.6	6576.6	5991.7	5984.5	6300.7	6438.6
45°	12004.9	11973.3	11386.9	10557.6	10258.7	9093.1	7535.2	6734.7	6681.5	6879.9	6924.4
47.5°	12661.7	12663.1	12325.4	11648.5	11641.3	10590.7	8766.9	7809.7	7717.7	7811.2	7763.7
50°	12431.7	12461.9	12426.0	12210.4	12903.1	12553.9	10375.1	9308.7	9123.3	9215.3	9032.8
52.5°	11319.3	11358.1	11570.9	11901.4	13433.5	14926.7	12737.9	11171.3	10955.7	10922.7	10720.0
55°	9347.5	9394.9	9829.0	10727.2	12992.2	16520.6	16465.9	13545.6	13202.1	12890.2	12804.0
57.5°	6442.9	6522.0	7220.5	8554.2	11565.1	17002.0	20905.4	16930.2	16231.7	15142.3	15162.4
60°	3631.8	3723.8	4547.3	5758.8	8685.0	16478.9	24282.8	22056.6	20582.1	17779.5	17929.0
62.5°	2309.6	2408.7	3033.9	4001.1	5211.3	13662.0	25666.9	29183.7	27311.0	21030.5	21177.1
65°	1869.8	1912.9	2207.5	3302.7	3784.1	8230.8	24616.3	35054.6	34356.1	25156.7	24472.6
67.5°	1825.2	1839.6	1992.0	2772.3	3628.9	4626.3	19635.0	36152.6	36927.3	29009.8	25845.1
70°	1803.7	1854.0	2244.9	2645.9	3475.1	3902.0	11799.4	33143.1	34366.2	30017.2	24018.4
72.5°	875.3	872.4	1129.6	2392.9	3914.9	4047.1	6062.1	26816.6	28044.0	26006.0	19737.0
75°	705.7	645.3	616.6	876.7	3764.0	4179.4	3863.2	18452.1	19340.3	17436.0	12132.8
77.5°	669.7	597.9	547.6	549.0	1591.0	4432.3	3272.5	10212.7	10471.4	7875.8	3324.2
80°	554.8	488.6	452.7	510.2	770.3	4221.0	3538.4	4622.0	4241.2	1934.5	1106.6
82.5°	385.2	350.7	340.6	428.3	616.6	3008.0	4114.7	2483.5	2082.5	968.7	682.7
85°	245.8	209.8	232.8	311.9	480.0	1388.3	4238.3	1935.9	1539.2	615.1	385.2
87.5°	113.5	92.0	115.0	172.5	313.3	478.6	4032.8	2174.5	1585.2	324.8	242.9
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°	6286.3	6286.3	6286.3	6286.3	6286.3	6286.3	6286.3	6286.3	6286.3	6286.3	6286.3
2.5°	6289.2	6261.9	6240.3	6200.1	6155.5	6112.4	6073.6	6024.7	6010.3	5997.4	6017.5
5°	6309.3	6282.0	6202.9	6079.3	5942.8	5814.9	5687.0	5577.8	5510.2	5472.8	5494.4
7.5°	6339.5	6300.7	6136.8	5909.7	5664.0	5439.8	5208.4	5023.0	4886.5	4821.8	4840.5
10°	6366.8	6292.0	6024.7	5684.1	5324.8	4991.4	4626.3	4324.5	4100.3	3982.5	4011.2
12.5°	6378.3	6259.0	5868.1	5402.4	4909.5	4420.8	3883.3	3432.0	3110.1	2992.2	2967.8
15°	6389.8	6221.6	5695.6	5081.9	4407.9	3716.6	2963.5	2423.1	2155.8	2096.9	2083.9
17.5°	6392.6	6156.9	5500.1	4734.1	3820.1	2878.7	2026.4	1683.0	1684.4	1779.2	1790.7
20°	6362.5	6060.6	5263.0	4301.5	3115.8	1990.5	1391.2	1332.3	1549.3	1786.4	1815.2
22.5°	6293.5	5932.7	4994.3	3797.1	2309.6	1310.7	1076.5	1141.1	1421.4	1711.7	1744.8
25°	6205.8	5777.5	4676.6	3212.1	1529.2	937.1	902.6	981.6	1171.3	1365.3	1384.0
27.5°	6086.5	5593.6	4320.2	2542.4	993.1	771.8	794.8	847.9	925.6	1011.8	1020.4
30°	5932.7	5373.7	3939.4	1854.0	750.2	694.2	727.2	756.0	789.0	837.9	842.2
32.5°	5756.0	5162.4	3548.4	1280.5	665.4	653.9	679.8	694.2	720.0	750.2	753.1
35°	5607.9	4961.2	3143.1	905.4	629.5	623.7	641.0	646.7	671.2	704.2	707.1
37.5°	5523.1	4797.4	2724.9	730.1	605.1	596.4	606.5	606.5	641.0	689.9	697.0
40°	5528.9	4706.8	2306.7	659.7	584.9	573.4	574.9	574.9	619.4	672.6	676.9
42.5°	5685.5	4729.8	1935.9	632.4	569.1	556.2	549.0	553.3	590.7	625.2	628.1
45°	6053.5	4892.2	1588.1	615.1	553.3	549.0	533.2	531.8	546.1	561.9	561.9
47.5°	6657.1	5212.7	1352.4	603.6	540.4	538.9	520.3	501.6	500.1	505.9	505.9
50°	7638.7	5764.6	1194.3	590.7	531.8	520.3	498.7	470.0	459.9	464.2	464.2
52.5°	9110.4	6749.1	1133.9	573.4	513.1	494.4	470.0	441.2	432.6	434.0	434.0
55°	11040.5	8261.0	1125.3	553.3	493.0	462.8	442.7	421.1	411.0	413.9	413.9
57.5°	13399.0	10352.1	1279.1	521.7	465.7	431.2	419.7	405.3	398.1	402.4	401.0
60°	16266.2	13088.5	1897.1	488.6	438.3	402.4	402.4	390.9	385.2	389.5	388.0
62.5°	19568.8	16231.7	2667.4	464.2	409.6	379.4	385.2	379.4	373.7	376.5	375.1
65°	22497.8	18279.7	2497.8	445.5	380.9	357.9	367.9	365.0	360.7	363.6	362.2
67.5°	22582.6	17520.8	1402.7	425.4	353.5	336.3	350.7	349.2	346.4	349.2	347.8
70°	20153.8	14794.5	790.5	388.0	324.8	310.4	330.6	329.1	326.2	332.0	330.6
72.5°	16146.9	10735.8	577.8	342.1	296.1	283.1	306.1	304.7	304.7	313.3	309.0
75°	9291.5	5524.6	461.3	293.2	265.9	255.8	275.9	277.4	280.3	291.8	283.1
77.5°	2648.7	1721.8	376.5	248.6	228.5	224.2	244.3	247.2	248.6	261.6	250.1
80°	984.5	793.3	310.4	208.4	186.8	188.3	207.0	211.3	212.7	225.6	211.3
82.5°	628.1	523.1	251.5	161.0	146.6	145.2	168.2	173.9	173.9	175.3	166.7
85°	366.5	313.3	189.7	116.4	103.5	99.2	125.0	135.1	130.8	127.9	122.2
87.5°	245.8	215.6	116.4	64.7	56.1	53.2	73.3	80.5	77.6	73.3	69.0
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)