

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: P269476

Luminaire Tested: **GLEON-AF-07-LED-E1-SL3-7027-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P269476  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24288)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GLEON-AF-07-LED-E1-SL3-7027-800  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 29556.3 lumens  
Efficiency: N/A  
Efficacy: 100.2 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type III - Medium - Non-Cutoff  
BUG Rating: B3 - U0 - G4

Input Watts (W): 295  
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

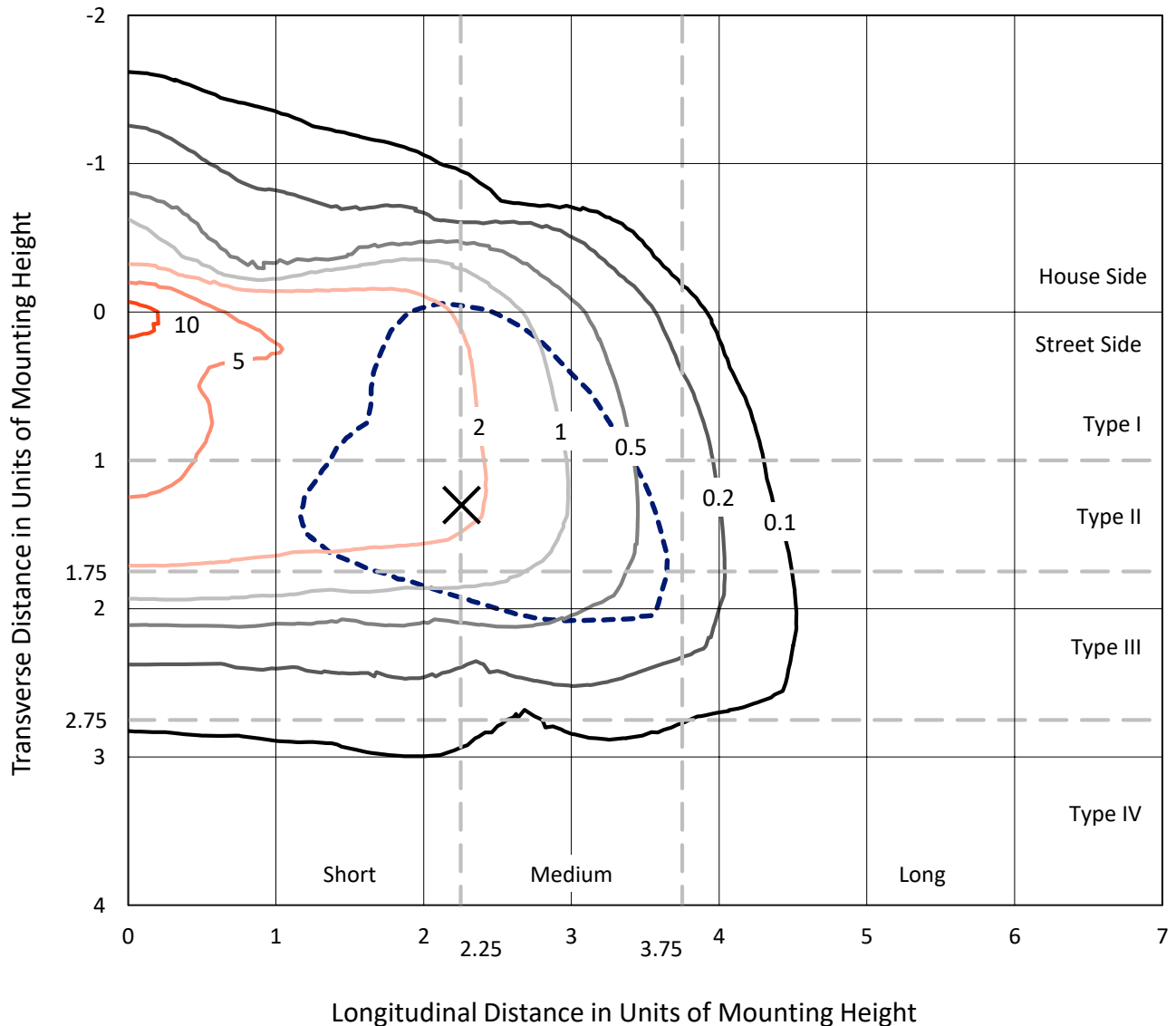


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

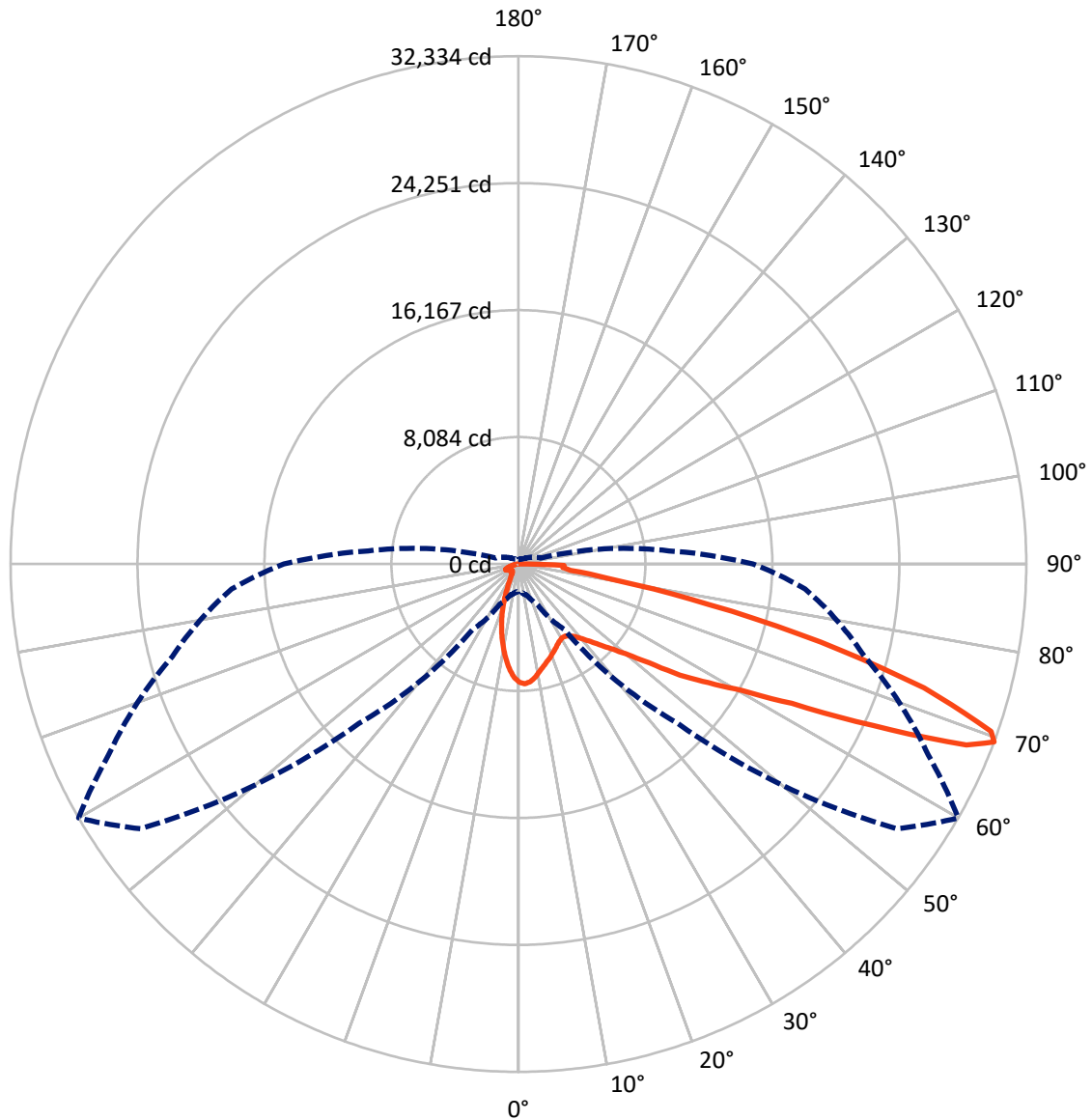


Based on 25 foot mounting height. Maximum calculated value = 12.1 fc  
 Type III - Medium - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4204.9	0.0	4204.9
	% Fixture	14.2	0.0	14.2
<b>Street Side</b>	Lumens	25351.4	0.0	25351.4
	% Fixture	85.8	0.0	85.8
<b>Total</b>	Lumens	29556.3	0.0	29556.3
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	636.8	2.2
10°-20°	1356.8	4.6
20°-30°	1728.8	5.8
30°-40°	2376.6	8.0
40°-50°	3856.3	13.0
50°-60°	6184.5	20.9
60°-70°	8231.0	27.8
70°-80°	4444.1	15.0
80°-90°	741.5	2.5
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°	29556.3	100.0
0°-180°	29556.3	100.0



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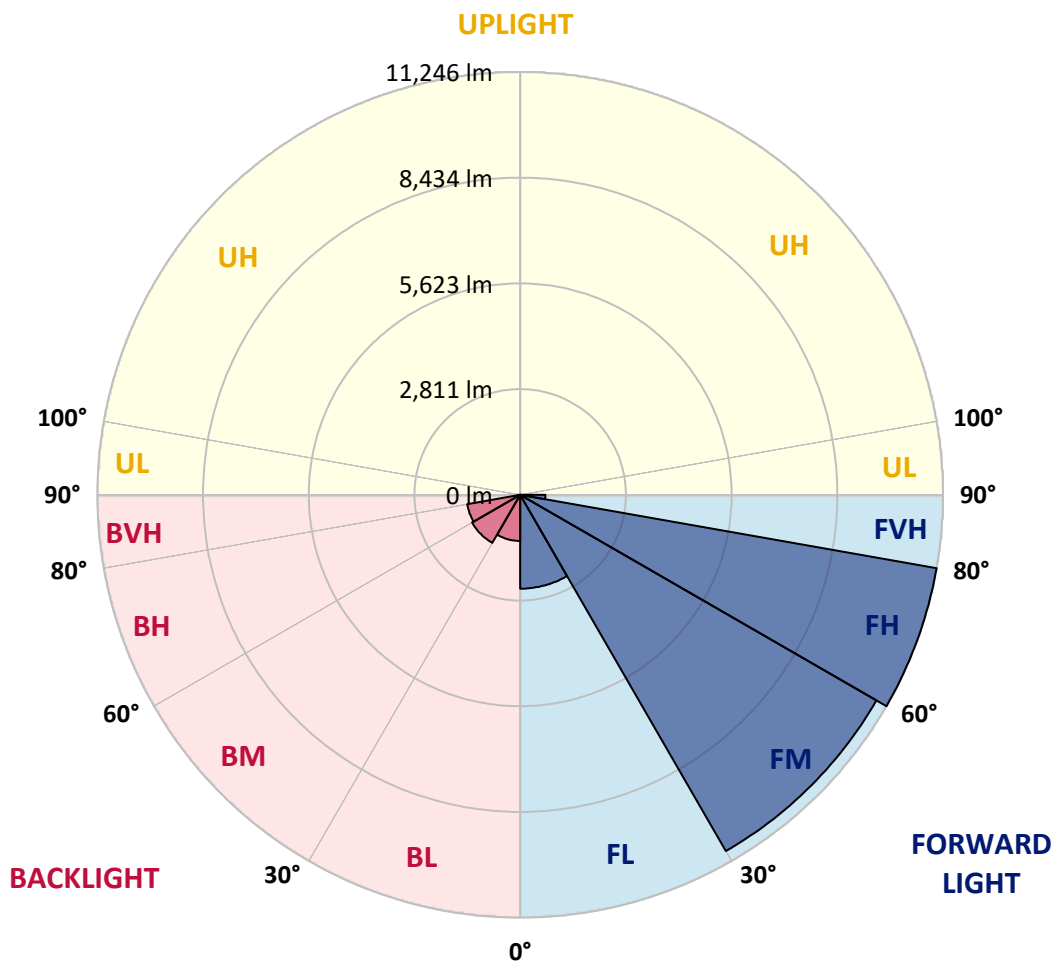
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2495.6	8.4			
FM (30°-60°)	10940.0	37.0			
FH (60°-80°)	11245.6	38.0			G4/12000
FVH (80°-90°)	670.1	2.3			G4/750
BL (0°-30°)	1226.7	4.2	B3/2500		
BM (30°-60°)	1477.3	5.0	B2/2500		
BH (60°-80°)	1429.5	4.8	B3/2500		G3/2500
BVH (80°-90°)	71.4	0.2			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 III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	7531.4	7531.4	7531.4	7531.4	7531.4	7531.4	7531.4	7531.4	7531.4	7531.4	7531.4
2.5°	7685.5	7702.7	7695.6	7691.3	7704.1	7684.2	7642.8	7629.9	7609.9	7562.8	7482.8
5°	7397.3	7448.6	7445.7	7484.3	7548.5	7565.6	7547.1	7550.0	7512.9	7454.3	7321.5
7.5°	6899.0	6920.4	6931.7	7016.0	7133.0	7227.4	7307.3	7333.0	7315.7	7265.9	7094.5
10°	6385.0	6402.0	6429.2	6527.8	6676.2	6806.1	6957.5	7044.6	7081.7	7073.1	6881.7
12.5°	5943.7	5960.9	5996.5	6107.9	6285.0	6444.9	6664.7	6773.3	6861.9	6914.7	6709.0
15°	5548.2	5585.4	5619.6	5748.2	5946.6	6156.4	6404.9	6541.9	6679.1	6797.6	6556.2
17.5°	5239.9	5277.0	5296.9	5414.1	5625.4	5882.3	6173.6	6334.9	6506.2	6700.5	6404.9
20°	5061.4	5078.5	5069.9	5135.6	5325.5	5598.2	5943.7	6130.8	6337.8	6609.1	6253.6
22.5°	5011.5	5012.8	4981.5	4974.3	5097.2	5326.9	5698.2	5925.2	6179.4	6549.2	6123.7
25°	5132.7	5128.6	5042.8	4972.8	4985.8	5119.9	5461.2	5725.3	6046.5	6536.2	6023.7
27.5°	5402.6	5415.4	5288.4	5157.1	5027.2	5022.9	5281.2	5559.7	5938.1	6594.7	5980.8
30°	5781.0	5802.4	5666.8	5499.8	5255.5	5054.3	5211.2	5461.2	5871.0	6716.2	5973.6
32.5°	6195.0	6217.9	6115.0	5939.5	5619.6	5248.4	5259.8	5469.7	5868.1	6886.0	6022.2
35°	6636.1	6661.9	6609.1	6460.6	6105.2	5606.9	5445.4	5608.2	5960.9	7145.8	6152.2
37.5°	7128.8	7168.7	7183.0	7041.6	6661.9	6079.4	5749.5	5871.0	6170.7	7507.1	6390.6
40°	7838.4	7894.0	7889.8	7687.1	7300.0	6717.5	6219.2	6250.6	6497.7	7989.7	6771.9
42.5°	9197.6	9209.1	8853.5	8412.3	8002.6	7388.6	6773.3	6747.6	6948.8	8600.8	7333.0
45°	10926.7	10879.6	10088.5	9236.2	8736.5	8159.7	7494.3	7368.6	7521.4	9346.1	8035.3
47.5°	12361.4	12253.1	11253.5	10077.0	9513.1	8997.8	8340.9	8121.0	8205.3	10191.4	8943.4
50°	12859.7	12778.4	11950.3	10776.6	10248.5	10020.0	9383.2	9072.0	9094.8	11199.3	10007.1
52.5°	12752.7	12741.3	12188.7	11237.8	10936.5	11093.7	10859.5	10438.3	10215.5	12318.6	11155.1
55°	12499.9	12524.3	12324.3	11774.8	11723.3	12130.3	12788.5	12477.2	11784.7	13448.0	12341.5
57.5°	11621.9	11684.8	12124.6	12450.0	12989.8	13595.0	14341.8	14253.2	13473.7	14668.8	13752.2
60°	9363.3	9508.9	10688.2	12318.6	14293.2	16186.5	16520.5	16314.9	15215.6	16183.5	15615.3
62.5°	6560.5	6711.9	8113.9	10665.3	14079.0	19113.3	20415.5	19528.9	17717.0	18415.2	18026.8
65°	3512.3	3585.0	4655.9	7400.1	11886.1	19717.3	26107.9	24758.6	21677.5	21166.5	20090.0
67.5°	1937.5	1977.3	2387.2	3736.4	7612.7	17362.9	29734.3	30753.8	26627.6	22998.2	19714.5
69°	1751.9	1789.0	2057.4	2829.8	5094.2	14356.1	29380.3	32334.3	28797.9	22816.9	18326.6
70°	1713.2	1747.6	1988.8	2608.5	4123.4	11833.3	28193.8	31930.3	29314.7	22167.4	17115.9
72.5°	1542.0	1579.1	1813.3	2343.0	3523.7	5899.4	22332.9	26997.4	26614.8	19220.5	12982.6
75°	1437.7	1472.1	1869.0	2294.5	3373.8	3733.5	14723.0	19897.2	19564.5	13445.1	7000.3
77.5°	615.3	612.6	866.7	1941.7	3423.8	3615.0	7911.3	12430.0	11340.7	5746.6	2010.2
80°	411.2	404.1	411.2	571.1	3139.7	3635.0	4144.8	6309.2	4765.9	1464.9	990.9
82.5°	354.1	348.4	361.2	348.4	1103.7	4149.0	3523.7	3355.2	2265.9	832.4	491.2
85°	238.4	228.4	311.3	312.7	521.1	3686.5	3969.2	2834.2	1833.3	494.0	242.7
87.5°	114.3	111.4	181.3	221.3	305.6	1497.7	4453.2	2904.0	1848.9	252.8	115.6
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°	7531.4	7531.4	7531.4	7531.4	7531.4	7531.4	7531.4	7531.4	7531.4	7531.4	7531.4
2.5°	7458.5	7400.1	7342.9	7274.5	7203.0	7123.1	7083.0	7043.2	7033.1	7021.7	6981.6
5°	7252.9	7170.2	7027.4	6870.3	6704.7	6543.4	6420.6	6343.6	6285.0	6255.0	6202.2
7.5°	6987.5	6866.0	6616.1	6345.0	6066.6	5812.5	5592.5	5454.0	5322.6	5261.3	5191.3
10°	6734.8	6553.3	6165.1	5765.2	5365.4	4981.5	4620.3	4364.7	4137.7	4010.6	3920.7
12.5°	6517.7	6269.4	5730.9	5189.9	4641.6	4094.8	3553.7	3128.2	2772.7	2585.6	2490.0
15°	6306.5	6006.5	5318.3	4631.7	3927.7	3184.0	2472.9	1990.3	1696.2	1579.1	1539.2
17.5°	6115.0	5730.9	4904.3	4069.1	3191.0	2291.5	1662.0	1396.3	1283.6	1245.1	1232.1
20°	5908.1	5452.6	4474.5	3480.8	2422.9	1601.9	1297.8	1180.7	1135.1	1123.6	1117.9
22.5°	5708.2	5178.5	4063.5	2851.2	1740.5	1236.4	1115.1	1066.6	1059.5	1069.4	1069.4
25°	5538.3	4933.0	3619.4	2193.0	1277.8	1040.9	997.9	986.6	1013.6	1050.8	1057.9
27.5°	5411.2	4731.6	3146.8	1619.0	1018.0	905.2	903.8	922.3	989.5	1060.8	1075.1
30°	5324.1	4540.3	2641.3	1167.8	853.7	796.6	819.6	859.5	958.0	1059.5	1086.5
32.5°	5279.9	4398.9	2114.5	903.8	731.0	699.6	738.1	786.6	883.8	978.1	1013.6
35°	5314.2	4294.6	1617.7	753.9	645.3	621.1	661.1	708.1	765.3	805.2	832.4
37.5°	5442.7	4253.3	1220.7	675.3	586.9	564.0	595.3	622.4	645.3	656.8	669.6
40°	5719.6	4297.5	978.1	635.3	554.0	525.4	538.3	548.2	562.5	573.9	579.6
42.5°	6127.9	4430.4	876.7	619.7	536.8	495.4	492.6	496.9	515.4	536.8	541.0
45°	6699.0	4664.4	869.5	629.6	528.3	471.2	458.3	464.1	492.6	525.4	531.1
47.5°	7428.7	5021.4	926.6	659.6	535.4	458.3	436.8	444.0	479.8	524.0	531.1
50°	8312.3	5519.6	1022.4	703.9	566.8	461.2	429.7	434.1	471.2	519.7	526.9
52.5°	9356.0	6226.4	1126.6	746.8	599.7	479.8	435.5	425.4	459.8	502.6	511.1
55°	10516.8	7133.0	1233.6	785.3	616.7	502.6	446.8	414.1	438.4	474.0	481.1
57.5°	11941.8	8400.9	1419.2	822.4	628.3	518.3	458.3	402.6	411.2	436.8	442.7
60°	13870.5	10194.1	1746.1	883.8	653.8	524.0	456.9	392.6	384.0	398.4	401.3
62.5°	16182.2	12141.6	2018.9	960.8	696.7	528.3	448.3	385.6	361.2	361.2	364.1
65°	17554.1	12662.8	1867.4	1025.1	732.5	524.0	438.4	378.4	344.1	328.4	329.8
67.5°	16390.7	11136.5	1600.5	1038.0	731.0	503.9	422.7	365.5	327.0	302.6	301.2
69°	14932.9	9608.8	1480.5	1003.6	696.7	478.3	402.6	351.2	314.0	288.4	287.0
70°	13757.8	8676.5	1402.1	966.5	659.6	459.8	386.9	338.4	304.0	279.8	276.9
72.5°	10002.8	5685.4	1197.9	830.9	544.0	385.6	334.1	297.0	271.3	256.9	254.1
75°	4998.6	2711.4	972.2	673.9	417.0	308.4	274.2	248.4	235.5	232.8	231.4
77.5°	1641.9	1242.1	695.3	502.6	309.8	241.3	221.3	202.7	200.0	208.4	205.6
80°	902.3	722.4	441.2	332.6	211.3	177.1	174.2	164.2	168.5	182.7	179.9
82.5°	459.8	375.5	272.6	200.0	142.8	127.1	138.5	132.8	138.5	151.4	149.8
85°	227.0	205.6	172.7	121.4	94.2	81.3	98.5	102.8	105.6	115.6	115.6
87.5°	131.3	121.4	91.4	57.1	47.2	42.8	57.1	55.7	65.7	71.3	70.0
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)