

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: P269554

Luminaire Tested: **GLEON-AF-08-LED-E1-SL3-7027-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P269554  
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-08-LED-E1-SL3-7027-600  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 2700K, 615mA 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: 27308.7 lumens  
Efficiency: N/A  
Efficacy: 106.3 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): 257  
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

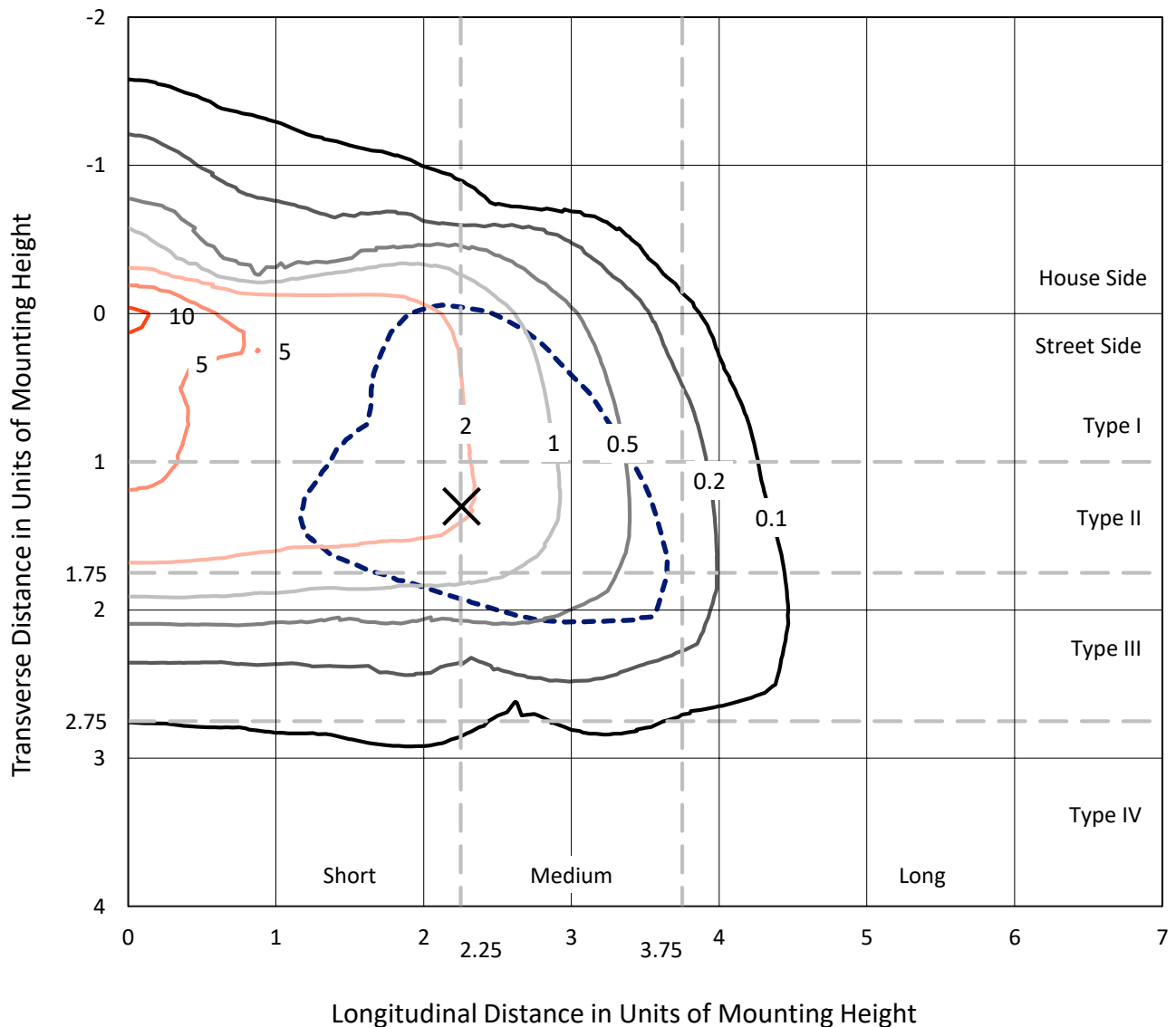


REPORT NUMBER: P269554

CATALOG NUMBER: GLEON-AF-08-LED-E1-SL3-7027-600

### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

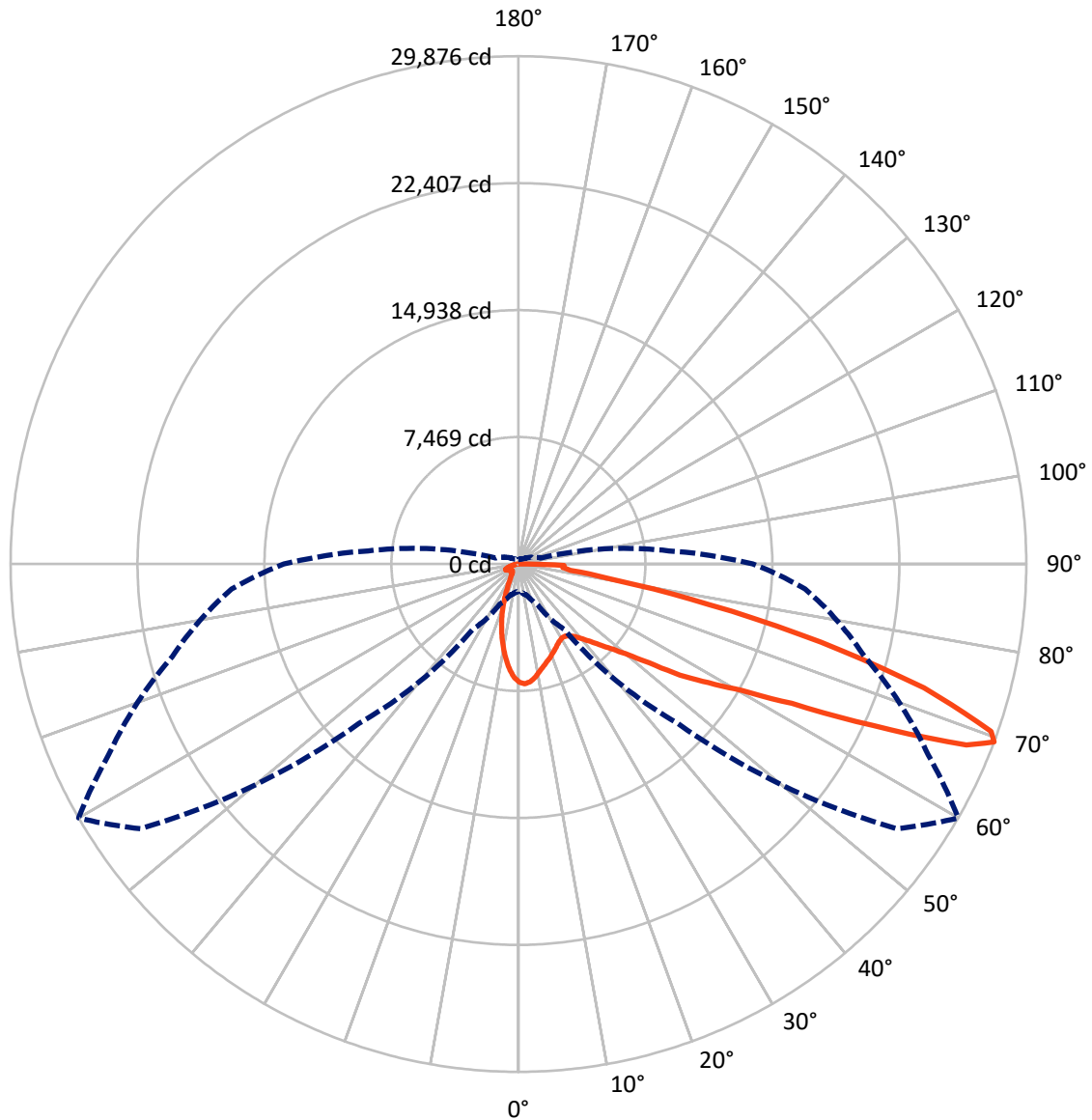


Based on 25 foot mounting height. Maximum calculated value = 11.1 fc  
 Type III - Medium - Non-Cutoff

REPORT NUMBER: P269554

CATALOG NUMBER: GLEON-AF-08-LED-E1-SL3-7027-600

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P269554

CATALOG NUMBER: GLEON-AF-08-LED-E1-SL3-7027-600

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3885.2	0.0	3885.2
	% Fixture	14.2	0.0	14.2
<b>Street Side</b>	Lumens	23423.6	0.0	23423.6
	% Fixture	85.8	0.0	85.8
<b>Total</b>	Lumens	27308.7	0.0	27308.7
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	588.4	2.2
10°-20°	1253.6	4.6
20°-30°	1597.3	5.8
30°-40°	2195.9	8.0
40°-50°	3563.0	13.0
50°-60°	5714.2	20.9
60°-70°	7605.1	27.8
70°-80°	4106.2	15.0
80°-90°	685.1	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°	27308.7	100.0
0°-180°	27308.7	100.0



REPORT NUMBER: P269554

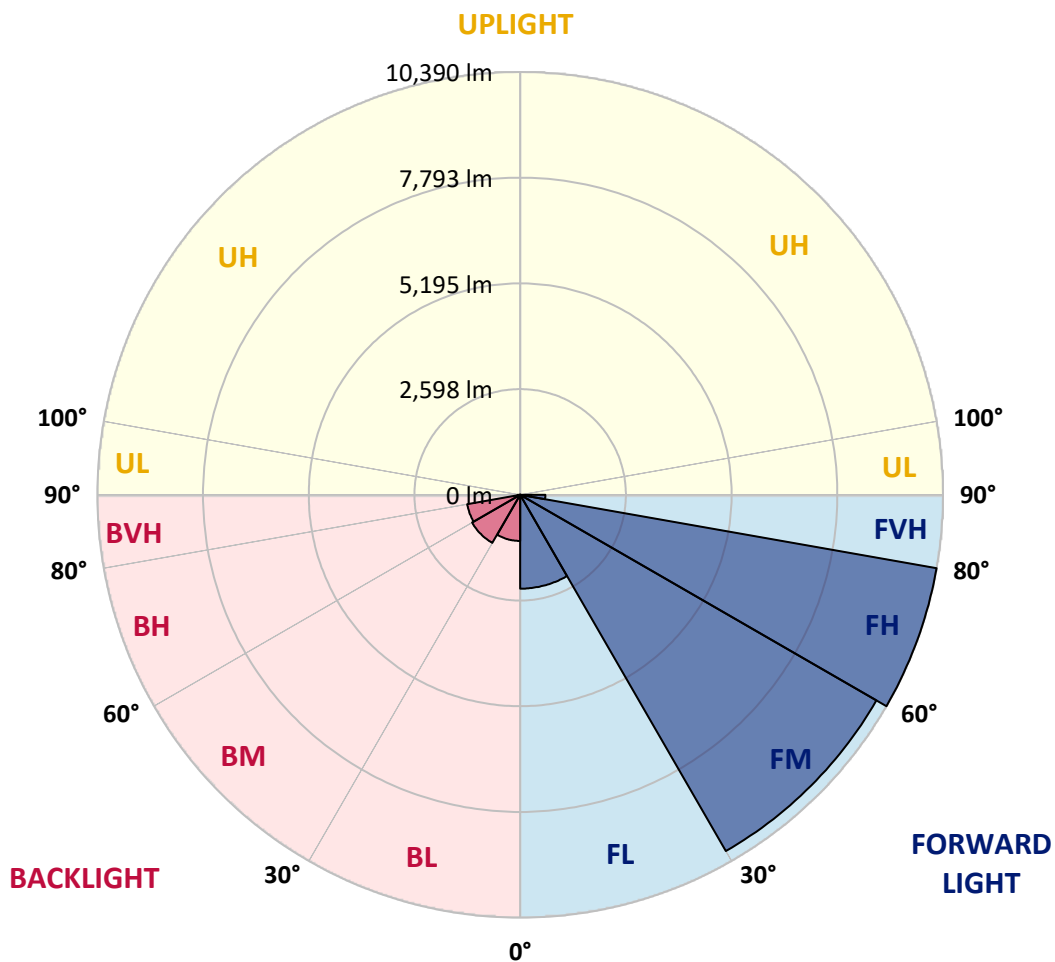
CATALOG NUMBER: GLEON-AF-08-LED-E1-SL3-7027-600

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2305.8	8.4			
FM (30°-60°)	10108.1	37.0			
FH (60°-80°)	10390.4	38.0			G4/12000
FVH (80°-90°)	619.2	2.3			G4/750
BL (0°-30°)	1133.4	4.2	B3/2500		
BM (30°-60°)	1364.9	5.0	B2/2500		
BH (60°-80°)	1320.8	4.8	B3/2500		G3/2500
BVH (80°-90°)	66.0	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





REPORT NUMBER: P269554

CATALOG NUMBER: GLEON-AF-08-LED-E1-SL3-7027-600

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	6958.7	6958.7	6958.7	6958.7	6958.7	6958.7	6958.7	6958.7	6958.7	6958.7	6958.7
2.5°	7101.1	7117.0	7110.4	7106.4	7118.3	7099.8	7061.5	7049.7	7031.3	6987.6	6913.9
5°	6834.7	6882.2	6879.5	6915.2	6974.5	6990.3	6973.3	6975.9	6941.6	6887.5	6764.7
7.5°	6374.4	6394.0	6404.6	6482.4	6590.7	6677.7	6751.7	6775.3	6759.4	6713.4	6555.0
10°	5899.3	5915.2	5940.3	6031.3	6168.5	6288.6	6428.5	6508.8	6543.2	6535.2	6358.5
12.5°	5491.8	5507.6	5540.6	5643.4	5807.1	5954.8	6157.9	6258.2	6340.0	6388.7	6198.8
15°	5126.4	5160.7	5192.4	5311.0	5494.5	5688.2	5917.9	6044.4	6171.1	6280.6	6057.7
17.5°	4841.3	4875.7	4894.1	5002.3	5197.6	5435.0	5704.1	5853.1	6011.5	6190.8	5917.9
20°	4676.4	4692.3	4684.4	4745.0	4920.6	5172.5	5491.8	5664.5	5855.8	6106.5	5778.0
22.5°	4630.4	4631.7	4602.6	4596.0	4709.5	4921.9	5264.8	5474.6	5709.4	6051.2	5658.0
25°	4742.4	4738.5	4659.4	4594.7	4606.6	4730.6	5045.9	5289.8	5586.6	6039.2	5565.5
27.5°	4991.8	5003.6	4886.2	4764.9	4644.9	4640.9	4879.7	5136.9	5486.5	6093.4	5526.1
30°	5341.3	5361.2	5235.9	5081.5	4855.9	4669.8	4815.1	5045.9	5424.4	6205.4	5519.5
32.5°	5723.9	5745.0	5650.1	5487.7	5192.4	4849.3	4859.9	5053.8	5421.8	6362.4	5564.3
35°	6131.6	6155.2	6106.5	5969.2	5640.8	5180.4	5031.3	5181.8	5507.6	6602.5	5684.4
37.5°	6586.6	6623.7	6636.8	6506.2	6155.2	5617.1	5312.3	5424.4	5701.5	6936.3	5904.6
40°	7242.3	7293.8	7289.7	7102.4	6745.0	6206.7	5746.4	5775.4	6003.6	7382.1	6256.9
42.5°	8498.1	8508.7	8180.2	7772.7	7393.9	6826.8	6258.2	6234.4	6420.5	7946.8	6775.3
45°	10095.7	10052.2	9321.4	8533.8	8072.1	7539.1	6924.3	6808.3	6949.5	8635.3	7424.3
47.5°	11421.5	11321.2	10397.8	9310.8	8789.6	8313.5	7706.6	7503.5	7581.3	9416.4	8263.4
50°	11881.9	11806.7	11041.5	9957.3	9469.0	9258.0	8669.6	8382.1	8403.1	10347.7	9246.2
52.5°	11782.9	11772.4	11261.8	10383.2	10104.9	10250.0	10033.7	9644.6	9438.8	11381.9	10306.8
55°	11549.4	11571.8	11387.2	10879.4	10831.9	11207.8	11815.9	11528.3	10888.5	12425.4	11403.1
57.5°	10738.1	10796.2	11202.6	11503.2	12002.0	12561.2	13251.2	13169.4	12449.2	13553.3	12706.3
60°	8651.1	8785.8	9875.3	11381.9	13206.3	14955.5	15264.3	15074.3	14058.6	14952.9	14427.9
62.5°	6061.7	6201.4	7497.0	9854.2	13008.4	17659.9	18863.0	18043.7	16369.8	17014.7	16656.0
65°	3245.1	3312.5	4301.9	6837.3	10982.1	18217.8	24122.5	22875.9	20029.1	19556.9	18562.1
67.5°	1790.1	1827.1	2205.7	3452.2	7033.9	16042.7	27473.3	28415.1	24602.7	21249.3	18215.2
69°	1618.7	1652.9	1901.0	2614.5	4706.8	13264.4	27146.2	29875.6	26607.8	21081.9	16933.1
70°	1583.1	1614.7	1837.7	2410.2	3809.8	10933.5	26049.9	29502.1	27085.4	20481.6	15814.3
72.5°	1424.7	1458.9	1675.3	2164.7	3255.7	5450.8	20634.6	24944.5	24590.8	17758.9	11995.2
75°	1328.5	1360.0	1726.8	2119.9	3117.2	3449.6	13603.5	18384.2	18076.8	12422.8	6467.9
77.5°	568.5	565.9	800.7	1794.1	3163.4	3340.2	7309.6	11484.8	10478.3	5309.7	1857.4
80°	380.0	373.3	380.0	527.7	2900.8	3358.7	3829.6	5829.6	4403.4	1353.4	915.6
82.5°	327.2	322.0	333.8	322.0	1019.8	3833.5	3255.7	3100.1	2093.5	769.0	453.9
85°	220.4	211.1	287.5	289.0	481.5	3406.2	3667.3	2618.6	1693.8	456.3	224.2
87.5°	105.6	102.9	167.5	204.5	282.2	1383.7	4114.5	2683.1	1708.3	233.5	106.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P269554

CATALOG NUMBER: GLEON-AF-08-LED-E1-SL3-7027-600

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6958.7	6958.7	6958.7	6958.7	6958.7	6958.7	6958.7	6958.7	6958.7	6958.7	6958.7
2.5°	6891.3	6837.3	6784.5	6721.2	6655.3	6581.4	6544.4	6507.5	6498.2	6487.6	6450.8
5°	6701.4	6624.9	6492.9	6348.0	6194.9	6045.9	5932.3	5861.1	5807.1	5779.3	5730.5
7.5°	6456.1	6343.9	6113.1	5862.5	5605.2	5370.3	5167.2	5039.3	4918.0	4861.2	4796.5
10°	6222.6	6055.0	5696.2	5326.9	4957.4	4602.6	4268.8	4032.8	3822.9	3705.6	3622.4
12.5°	6022.1	5792.5	5295.1	4795.2	4288.7	3783.4	3283.5	2890.3	2561.8	2389.0	2300.6
15°	5826.9	5549.8	4914.0	4279.4	3629.1	2941.8	2284.7	1838.9	1567.3	1458.9	1422.0
17.5°	5650.1	5295.1	4531.4	3759.6	2948.3	2117.2	1535.6	1290.1	1185.9	1150.3	1138.4
20°	5458.8	5038.0	4134.3	3216.1	2238.7	1480.0	1199.1	1090.9	1048.7	1038.3	1033.0
22.5°	5274.0	4784.6	3754.3	2634.4	1608.1	1142.5	1030.3	985.4	978.9	988.0	988.0
25°	5117.1	4557.8	3344.1	2026.2	1180.6	961.6	922.1	911.6	936.7	970.9	977.5
27.5°	4999.6	4371.8	2907.5	1495.9	940.5	836.3	835.1	852.2	914.1	980.1	993.3
30°	4919.2	4194.9	2440.4	1079.1	788.9	736.2	757.2	794.1	885.2	978.9	1003.9
32.5°	4878.3	4064.4	1953.8	835.1	675.4	646.4	682.1	726.9	816.6	903.7	936.7
35°	4910.0	3968.2	1494.6	696.5	596.3	573.8	610.8	654.3	707.1	744.1	769.0
37.5°	5028.7	3929.8	1127.9	624.0	542.1	521.0	550.1	575.2	596.3	606.9	618.8
40°	5284.6	3970.8	903.7	587.0	511.9	485.4	497.3	506.6	519.8	530.3	535.6
42.5°	5661.9	4093.4	810.0	572.5	496.0	457.7	455.1	459.0	476.2	496.0	499.9
45°	6189.6	4309.8	803.4	581.7	488.0	435.3	423.5	428.8	455.1	485.4	490.7
47.5°	6863.7	4639.6	856.2	609.5	494.6	423.5	403.7	410.3	443.3	484.1	490.7
50°	7680.2	5099.9	944.6	650.4	523.7	426.1	397.1	401.1	435.3	480.1	486.8
52.5°	8644.6	5752.9	1040.9	689.9	554.1	443.3	402.4	393.1	424.8	464.3	472.2
55°	9717.1	6590.7	1139.8	725.6	569.9	464.3	413.0	382.6	405.0	438.0	444.7
57.5°	11033.6	7762.1	1311.3	759.8	580.5	478.8	423.5	372.0	380.0	403.7	409.0
60°	12815.8	9419.0	1613.4	816.6	604.2	484.1	422.2	362.7	354.9	368.0	370.7
62.5°	14951.6	11218.4	1865.3	887.9	643.7	488.0	414.2	356.2	333.8	333.8	336.3
65°	16219.3	11699.9	1725.5	947.2	676.8	484.1	405.0	349.6	317.9	303.4	304.7
67.5°	15144.2	10289.6	1478.8	959.0	675.4	465.7	390.5	337.8	302.1	279.6	278.4
69°	13797.2	8878.0	1367.9	927.4	643.7	442.0	372.0	324.5	290.2	266.4	265.2
70°	12711.6	8016.7	1295.4	893.0	609.5	424.8	357.4	312.6	281.0	258.5	255.8
72.5°	9242.2	5253.0	1106.8	767.7	502.6	356.2	308.7	274.4	250.6	237.4	234.7
75°	4618.5	2505.2	898.3	622.6	385.3	284.9	253.3	229.5	217.7	215.1	213.6
77.5°	1517.1	1147.7	642.5	464.3	286.3	222.9	204.5	187.3	184.7	192.5	189.9
80°	833.7	667.5	407.7	307.4	195.2	163.6	160.9	151.8	155.6	168.8	166.2
82.5°	424.8	346.9	252.0	184.7	132.0	117.4	128.0	122.7	128.0	139.9	138.5
85°	209.8	189.9	159.5	112.1	87.0	75.2	91.0	95.0	97.6	106.9	106.9
87.5°	121.5	112.1	84.4	52.8	43.6	39.5	52.8	51.5	60.6	65.9	64.7
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)