

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: P191182

Luminaire Tested: **GLEON-AF-04-LED-E1-SL3-1200**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191182  
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-04-LED-E1-SL3-1200  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 4000K, 1200mA 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: 26946.6 lumens  
Efficiency: N/A  
Efficacy: 104.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium - Non-Cutoff  
BUG Rating: B3 - U0 - G4

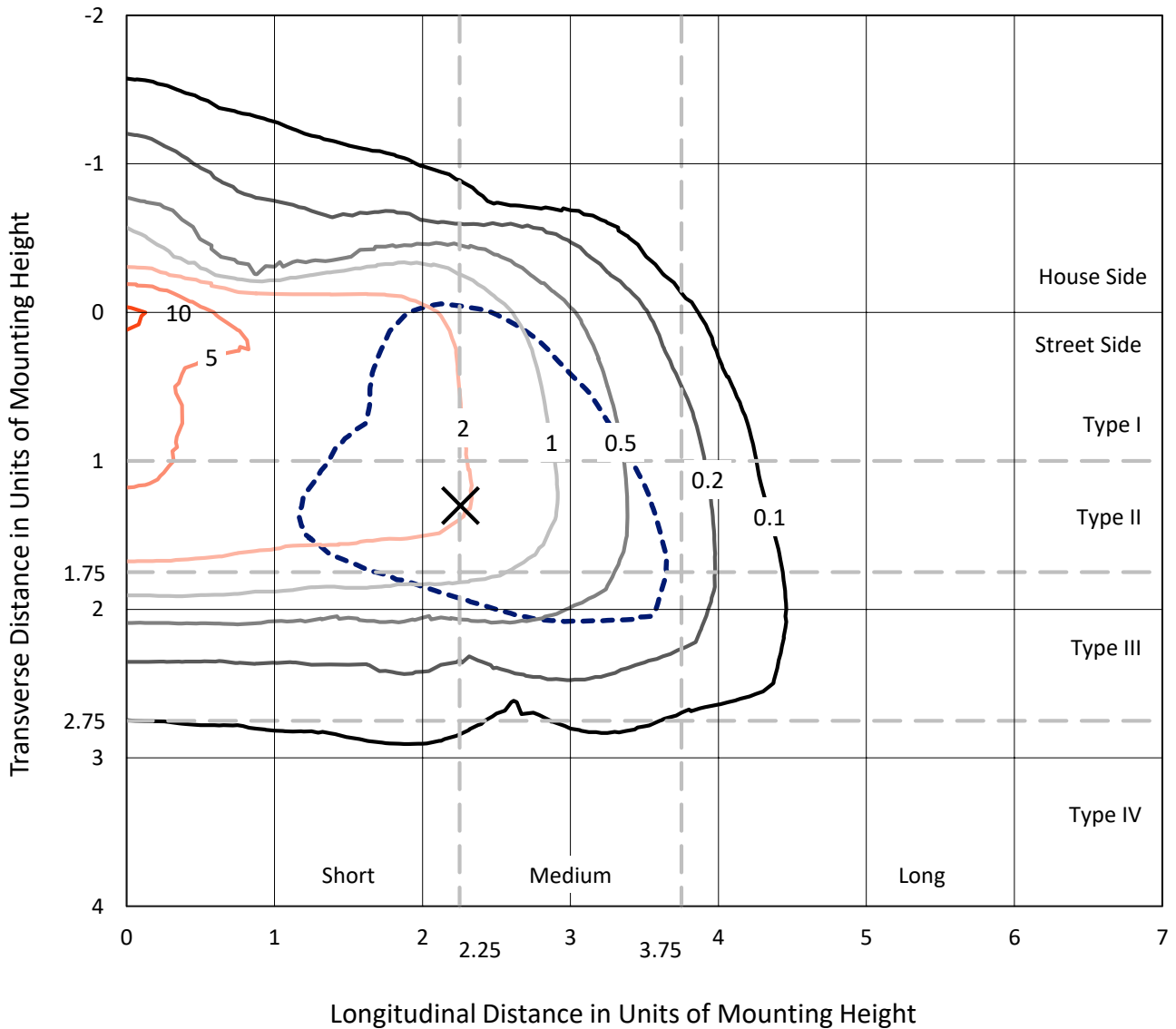
Input Watts (W): 258  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



REPORT NUMBER: P191182  
 CATALOG NUMBER: GLEON-AF-04-LED-E1-SL3-1200

### Iso-Footcandle Lines of Horizontal Illumination

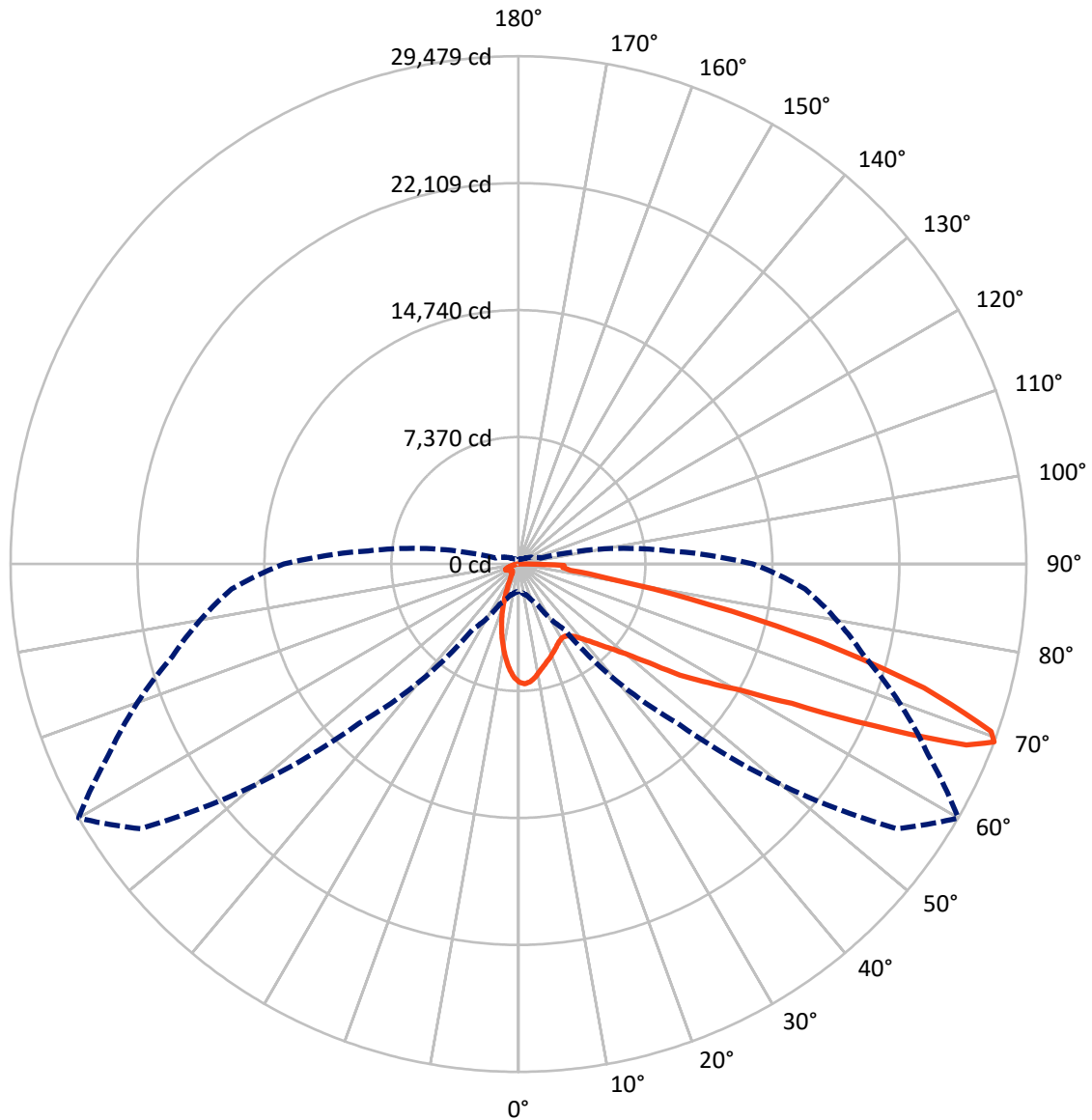
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11 fc  
 Type III - Medium - Non-Cutoff

REPORT NUMBER: P191182  
CATALOG NUMBER: GLEON-AF-04-LED-E1-SL3-1200

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P191182

CATALOG NUMBER: GLEON-AF-04-LED-E1-SL3-1200

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3833.7	0.0	3833.7
	% Fixture	14.2	0.0	14.2
<b>Street Side</b>	Lumens	23112.9	0.0	23112.9
	% Fixture	85.8	0.0	85.8
<b>Total</b>	Lumens	26946.6	0.0	26946.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	580.6	2.2
10°-20°	1237.0	4.6
20°-30°	1576.1	5.8
30°-40°	2166.7	8.0
40°-50°	3515.8	13.0
50°-60°	5638.4	20.9
60°-70°	7504.3	27.8
70°-80°	4051.7	15.0
80°-90°	676.1	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°	26946.6	100.0
0°-180°	26946.6	100.0

**Coefficient of Utilization**



REPORT NUMBER: P191182

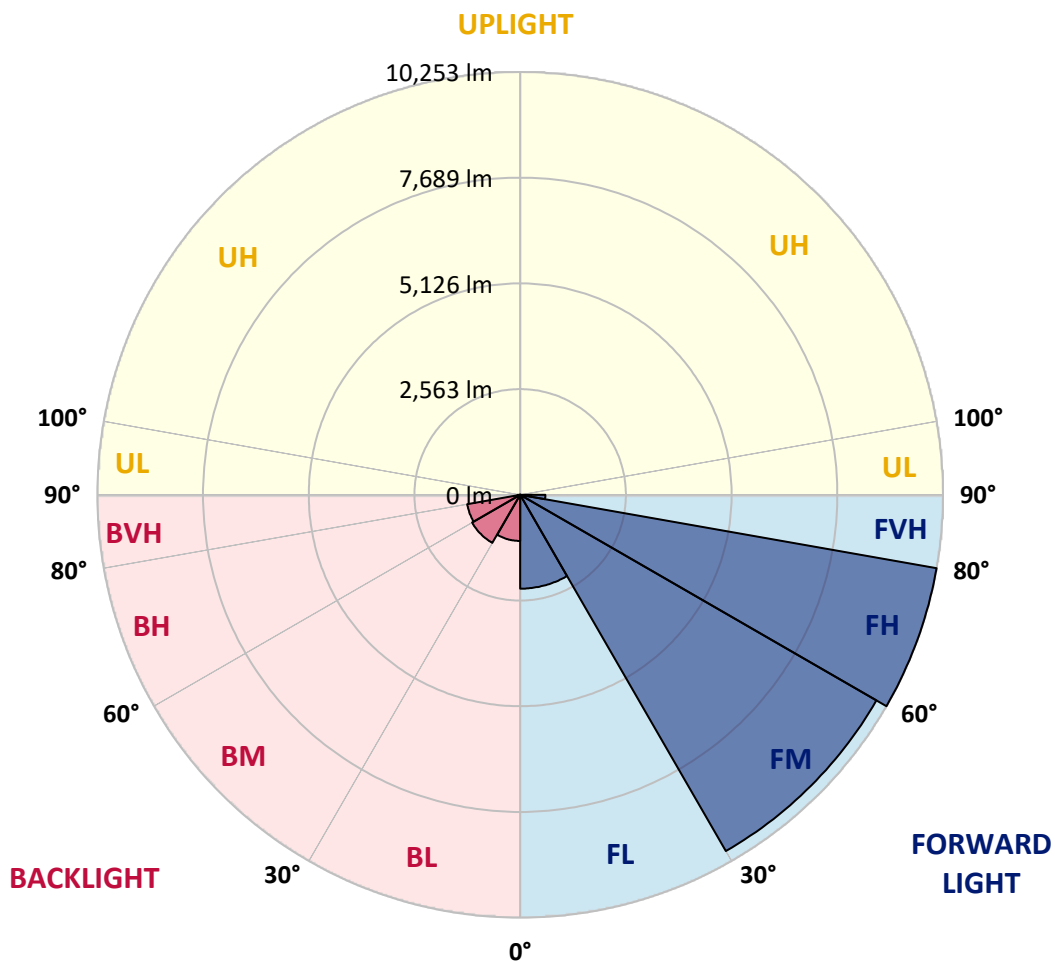
CATALOG NUMBER: GLEON-AF-04-LED-E1-SL3-1200

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2275.3	8.4			
FM	(30°-60°)	9974.0	37.0			
FH	(60°-80°)	10252.7	38.0			G4/12000
FVH	(80°-90°)	611.0	2.3			G4/750
BL	(0°-30°)	1118.4	4.2	B3/2500		
BM	(30°-60°)	1346.8	5.0	B2/2500		
BH	(60°-80°)	1303.3	4.8	B3/2500		G3/2500
BVH	(80°-90°)	65.1	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: P191182  
 CATALOG NUMBER: GLEON-AF-04-LED-E1-SL3-1200

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	6866.4	6866.4	6866.4	6866.4	6866.4	6866.4	6866.4	6866.4	6866.4	6866.4	6866.4
2.5°	7007.0	7022.6	7016.1	7012.2	7023.9	7005.7	6967.9	6956.2	6938.0	6895.0	6822.2
5°	6744.0	6790.9	6788.3	6823.4	6882.0	6897.7	6880.7	6883.3	6849.5	6796.1	6675.1
7.5°	6289.7	6309.3	6319.7	6396.5	6503.2	6589.1	6662.1	6685.5	6669.8	6624.3	6468.1
10°	5821.1	5836.8	5861.5	5951.3	6086.7	6205.1	6343.1	6422.5	6456.4	6448.6	6274.2
12.5°	5418.9	5434.5	5467.1	5568.6	5730.1	5875.8	6076.2	6175.2	6255.9	6304.0	6116.6
15°	5058.4	5092.1	5123.4	5240.6	5421.5	5612.8	5839.4	5964.3	6089.3	6197.3	5977.3
17.5°	4777.2	4811.0	4829.2	4936.0	5128.7	5362.9	5628.5	5775.6	5931.8	6108.9	5839.4
20°	4614.4	4630.1	4622.3	4682.1	4855.3	5103.9	5418.9	5589.4	5778.1	6025.5	5701.4
22.5°	4568.9	4570.2	4541.6	4535.0	4647.1	4856.6	5195.1	5402.0	5633.7	5970.9	5583.0
25°	4679.6	4675.7	4597.6	4533.8	4545.5	4667.8	4978.9	5219.8	5512.7	5959.1	5491.8
27.5°	4925.6	4937.3	4821.5	4701.7	4583.2	4579.3	4814.9	5068.7	5413.8	6012.5	5452.7
30°	5270.5	5290.1	5166.4	5014.1	4791.5	4608.0	4751.2	4978.9	5352.5	6123.2	5446.3
32.5°	5648.0	5668.9	5575.1	5415.0	5123.4	4785.0	4795.4	4986.8	5349.9	6278.1	5490.5
35°	6050.2	6073.7	6025.5	5890.2	5566.0	5111.7	4964.6	5113.0	5434.5	6515.0	5608.9
37.5°	6499.3	6535.7	6548.8	6419.9	6073.7	5542.6	5241.9	5352.5	5625.9	6844.3	5826.3
40°	7146.2	7197.1	7193.1	7008.2	6655.5	6124.4	5670.1	5698.8	5924.0	7284.2	6173.9
42.5°	8385.4	8395.9	8071.8	7669.6	7296.0	6736.2	6175.2	6151.7	6335.3	7841.3	6685.5
45°	9961.8	9918.8	9197.8	8420.6	7965.0	7439.1	6832.6	6718.0	6857.2	8520.9	7325.9
47.5°	11270.0	11171.0	10259.9	9187.3	8673.1	8203.2	7604.4	7404.0	7480.8	9291.5	8153.7
50°	11724.2	11650.1	10895.1	9825.1	9343.5	9135.3	8554.7	8270.9	8291.7	10210.4	9123.5
52.5°	11626.7	11616.2	11112.5	10245.6	9970.9	10114.1	9900.6	9516.6	9313.6	11231.0	10170.1
55°	11396.3	11418.4	11236.2	10735.1	10688.1	11059.1	11659.2	11375.4	10744.2	12260.6	11251.7
57.5°	10595.7	10653.0	11053.9	11350.7	11842.7	12394.7	13075.5	12994.7	12284.0	13373.5	12537.8
60°	8536.4	8669.2	9744.4	11231.0	13031.2	14757.2	15061.8	14874.3	13872.0	14754.6	14236.5
62.5°	5981.3	6119.2	7397.5	9723.6	12835.9	17425.7	18612.8	17804.5	16152.6	16789.2	16435.1
65°	3202.1	3268.5	4244.8	6746.7	10836.5	17976.3	23802.6	22572.5	19763.5	19297.5	18316.0
67.5°	1766.4	1802.8	2176.4	3406.5	6940.6	15829.9	27108.9	28038.4	24276.5	20967.5	17973.7
69°	1597.1	1631.0	1875.7	2580.0	4644.4	13088.5	26786.1	29479.3	26255.1	20802.2	16708.5
70°	1562.0	1593.2	1813.3	2378.2	3759.2	10788.3	25704.4	29110.9	26726.2	20210.0	15604.6
72.5°	1405.8	1439.7	1653.2	2136.0	3212.6	5378.6	20361.0	24613.6	24264.7	17523.4	11836.3
75°	1310.8	1342.0	1703.9	2091.8	3075.9	3403.9	13423.0	18140.3	17837.0	12258.0	6382.2
77.5°	561.0	558.4	790.1	1770.3	3121.4	3295.8	7212.6	11332.5	10339.3	5239.2	1832.8
80°	374.9	368.4	374.9	520.7	2862.4	3314.1	3778.8	5752.2	4345.0	1335.6	903.4
82.5°	322.8	317.6	329.3	317.6	1006.2	3782.7	3212.6	3058.9	2065.7	758.9	447.7
85°	217.4	208.3	283.8	285.1	475.2	3360.9	3618.7	2583.9	1671.4	450.4	221.3
87.5°	104.1	101.6	165.3	201.7	278.5	1365.4	4060.0	2647.6	1685.7	230.4	105.5
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: P191182  
 CATALOG NUMBER: GLEON-AF-04-LED-E1-SL3-1200

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6866.4	6866.4	6866.4	6866.4	6866.4	6866.4	6866.4	6866.4	6866.4	6866.4	6866.4
2.5°	6800.0	6746.7	6694.6	6632.1	6567.0	6494.1	6457.7	6421.3	6412.1	6401.7	6365.2
5°	6612.6	6537.1	6406.9	6263.7	6112.7	5965.6	5853.7	5783.4	5730.1	5702.6	5654.6
7.5°	6370.4	6259.8	6032.0	5784.7	5530.9	5299.2	5098.7	4972.5	4852.7	4796.7	4732.9
10°	6140.1	5974.7	5620.7	5256.2	4891.8	4541.6	4212.3	3979.3	3772.3	3656.4	3574.4
12.5°	5942.2	5715.7	5224.9	4731.7	4231.7	3733.3	3239.9	2852.0	2527.9	2357.4	2270.1
15°	5749.6	5476.2	4848.8	4222.6	3580.9	2902.7	2254.5	1814.5	1546.4	1439.7	1403.2
17.5°	5575.1	5224.9	4471.3	3709.8	2909.3	2089.2	1515.2	1273.1	1170.3	1135.1	1123.4
20°	5386.3	4971.1	4079.5	3173.5	2209.0	1460.5	1183.2	1076.5	1034.8	1024.4	1019.3
22.5°	5204.2	4721.2	3704.6	2599.4	1586.8	1127.3	1016.6	972.3	965.9	975.0	975.0
25°	5049.3	4497.3	3299.7	1999.4	1165.0	948.9	909.9	899.5	924.2	958.0	964.5
27.5°	4933.4	4313.8	2868.9	1476.1	928.1	825.3	824.0	840.9	902.0	967.2	980.2
30°	4854.0	4139.4	2408.1	1064.8	778.4	726.3	747.2	783.6	873.4	965.9	990.6
32.5°	4813.6	4010.5	1927.8	824.0	666.5	637.8	673.0	717.2	805.8	891.7	924.2
35°	4844.9	3915.4	1474.8	687.3	588.4	566.2	602.7	645.7	697.8	734.2	758.9
37.5°	4962.0	3877.7	1113.0	615.7	535.0	514.1	542.8	567.5	588.4	598.7	610.5
40°	5214.6	3918.1	891.7	579.3	505.0	479.0	490.7	499.8	512.9	523.2	528.5
42.5°	5586.8	4039.1	799.2	565.0	489.5	451.7	449.1	453.0	469.9	489.5	493.4
45°	6107.5	4252.6	792.7	574.1	481.6	429.5	417.9	423.1	449.1	479.0	484.3
47.5°	6772.7	4578.0	844.8	601.4	488.2	417.9	398.3	404.8	437.4	477.7	484.3
50°	7578.4	5032.3	932.0	641.7	516.8	420.4	391.8	395.7	429.5	473.8	480.3
52.5°	8530.0	5676.7	1027.0	680.8	546.7	437.4	397.0	387.9	419.1	458.2	466.0
55°	9588.2	6503.2	1124.6	716.0	562.3	458.2	407.4	377.5	399.7	432.2	438.6
57.5°	10887.3	7659.1	1293.8	749.7	572.8	472.5	417.9	367.0	374.9	398.3	403.6
60°	12645.9	9294.0	1591.9	805.8	596.2	477.7	416.5	357.9	350.2	363.1	365.8
62.5°	14753.3	11069.6	1840.6	876.1	635.3	481.6	408.8	351.5	329.3	329.3	331.9
65°	16004.3	11544.6	1702.6	934.6	667.8	477.7	399.7	344.9	313.7	299.4	300.6
67.5°	14943.4	10153.2	1459.2	946.3	666.5	459.5	385.3	333.3	298.1	276.0	274.7
69°	13614.4	8760.3	1349.9	915.1	635.3	436.1	367.0	320.2	286.3	262.9	261.7
70°	12543.0	7910.4	1278.3	881.3	601.4	419.1	352.7	308.5	277.2	255.1	252.6
72.5°	9119.6	5183.3	1092.1	757.6	495.9	351.5	304.6	270.8	247.3	234.3	231.7
75°	4557.2	2471.9	886.5	614.4	380.1	281.2	249.9	226.5	214.8	212.2	210.8
77.5°	1497.0	1132.5	633.9	458.2	282.4	219.9	201.7	184.8	182.2	190.1	187.4
80°	822.7	658.7	402.2	303.3	192.6	161.4	158.8	149.7	153.6	166.6	164.0
82.5°	419.1	342.4	248.6	182.2	130.1	115.9	126.2	121.0	126.2	138.0	136.7
85°	206.9	187.4	157.5	110.7	85.9	74.2	89.8	93.7	96.4	105.5	105.5
87.5°	119.8	110.7	83.3	52.1	43.0	39.1	52.1	50.7	59.8	65.1	63.8
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)