

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: P191185

Luminaire Tested: **GLEON-AF-07-LED-E1-SL3-1200**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191185  
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-SL3-1200  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 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: 47249.1 lumens  
Efficiency: N/A  
Efficacy: 105.5 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type III - Medium - Non-Cutoff  
BUG Rating: B3 - U0 - G5

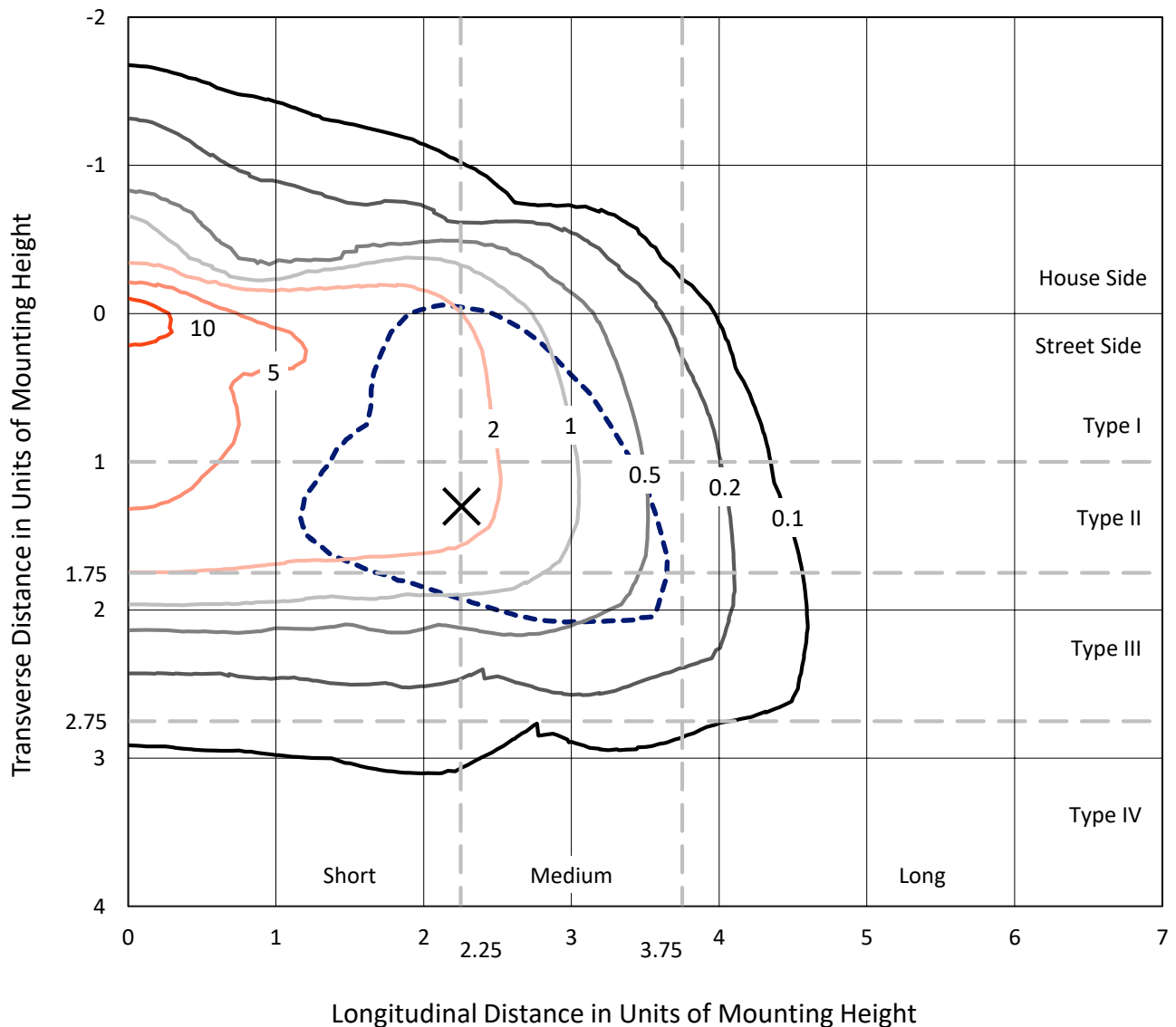
Input Watts (W): 448  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



REPORT NUMBER: P191185  
 CATALOG NUMBER: GLEON-AF-07-LED-E1-SL3-1200

### Iso-Footcandle Lines of Horizontal Illumination

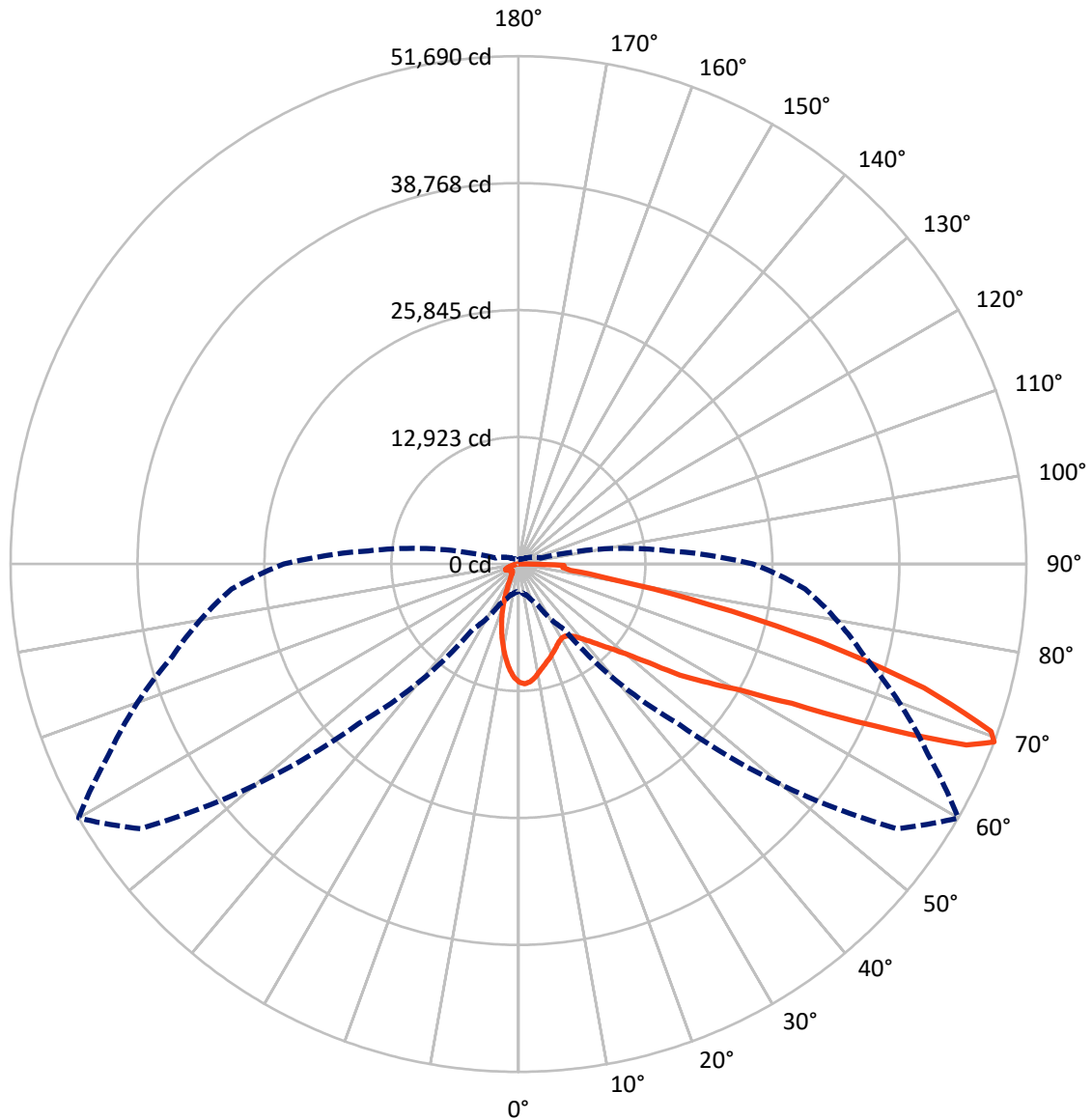
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 13.4 fc  
 Type III - Medium - Non-Cutoff

REPORT NUMBER: P191185  
CATALOG NUMBER: GLEON-AF-07-LED-E1-SL3-1200

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P191185

CATALOG NUMBER: GLEON-AF-07-LED-E1-SL3-1200

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6722.1	0.0	6722.1
	% Fixture	14.2	0.0	14.2
<b>Street Side</b>	Lumens	40527.0	0.0	40527.0
	% Fixture	85.8	0.0	85.8
<b>Total</b>	Lumens	47249.1	0.0	47249.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1018.0	2.2
10°-20°	2168.9	4.6
20°-30°	2763.6	5.8
30°-40°	3799.3	8.0
40°-50°	6164.7	13.0
50°-60°	9886.5	20.9
60°-70°	13158.2	27.8
70°-80°	7104.4	15.0
80°-90°	1185.4	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°	47249.1	100.0
0°-180°	47249.1	100.0

**Coefficient of Utilization**



REPORT NUMBER: P191185

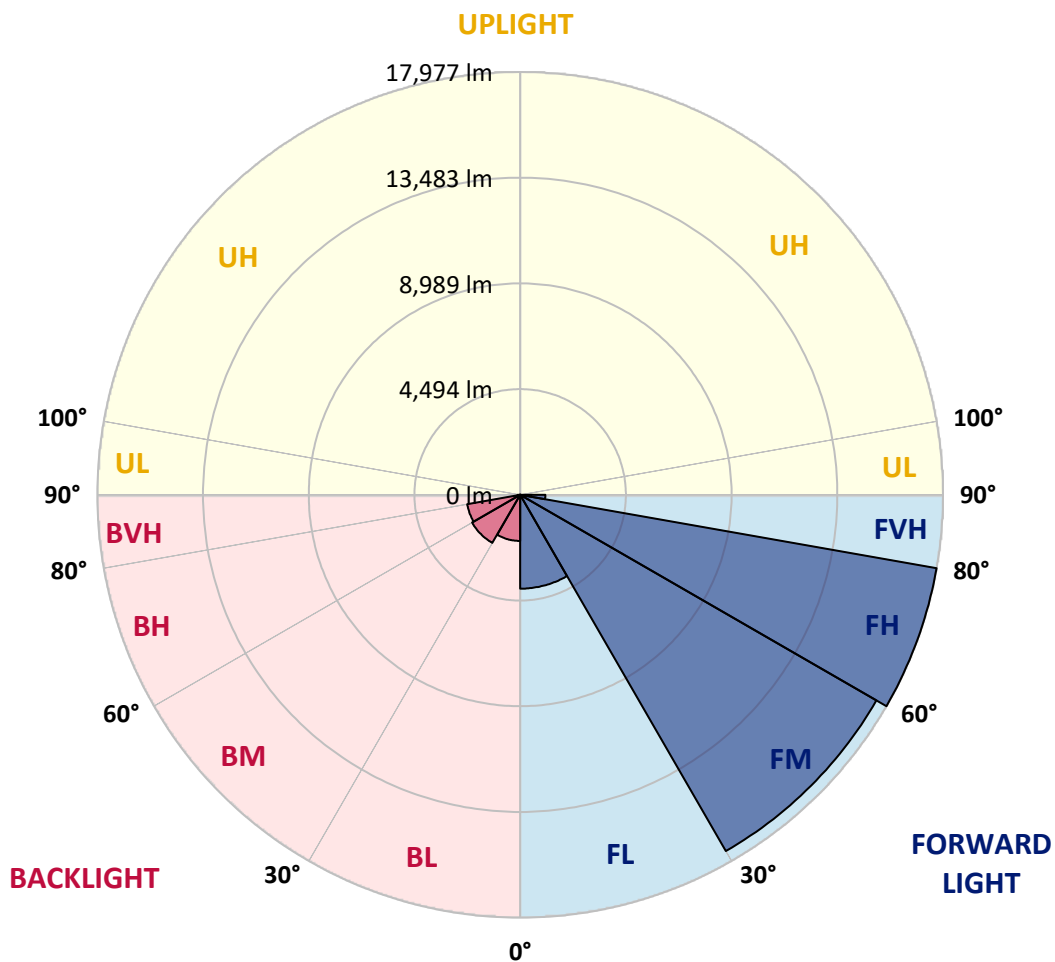
CATALOG NUMBER: GLEON-AF-07-LED-E1-SL3-1200

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3989.5	8.4			
FM	(30°-60°)	17488.9	37.0			
FH	(60°-80°)	17977.4	38.0			G5
FVH	(80°-90°)	1071.3	2.3			G5
BL	(0°-30°)	1961.0	4.2	B3/2500		
BM	(30°-60°)	2361.6	5.0	B2/2500		
BH	(60°-80°)	2285.3	4.8	B3/2500		G3/2500
BVH	(80°-90°)	114.2	0.2			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**

Type III Medium





REPORT NUMBER: P191185  
 CATALOG NUMBER: GLEON-AF-07-LED-E1-SL3-1200

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	12039.8	12039.8	12039.8	12039.8	12039.8	12039.8	12039.8	12039.8	12039.8	12039.8	12039.8
2.5°	12286.3	12313.7	12302.2	12295.5	12315.9	12284.0	12217.8	12197.3	12165.3	12089.9	11962.2
5°	11825.2	11907.4	11902.9	11964.4	12067.1	12094.6	12064.9	12069.5	12010.2	11916.6	11704.3
7.5°	11028.6	11062.9	11081.1	11215.8	11402.9	11553.6	11681.5	11722.5	11695.1	11615.3	11341.4
10°	10207.0	10234.4	10277.8	10435.2	10672.7	10880.3	11122.2	11261.5	11320.8	11307.1	11001.3
12.5°	9501.7	9529.1	9586.2	9764.2	10047.2	10302.9	10654.3	10827.8	10969.3	11053.8	10725.1
15°	8869.5	8928.8	8983.7	9189.1	9506.3	9841.8	10238.9	10458.0	10677.2	10866.6	10480.8
17.5°	8376.5	8435.9	8467.8	8655.0	8992.8	9403.6	9869.2	10127.1	10401.0	10711.4	10238.9
20°	8091.2	8118.5	8104.8	8209.9	8513.4	8949.4	9501.7	9800.7	10131.7	10565.3	9997.0
22.5°	8011.3	8013.6	7963.4	7952.0	8148.2	8515.8	9109.2	9472.0	9878.3	10469.5	9789.3
25°	8205.3	8198.4	8061.6	7949.7	7970.2	8184.7	8730.3	9152.5	9666.1	10448.9	9629.5
27.5°	8636.7	8657.2	8454.1	8244.1	8036.4	8029.6	8442.7	8887.8	9492.6	10542.5	9561.1
30°	9241.5	9275.8	9058.9	8791.9	8401.6	8079.8	8330.8	8730.3	9385.4	10736.5	9549.7
32.5°	9903.4	9939.9	9775.6	9494.9	8983.7	8390.1	8408.5	8744.0	9380.8	11008.1	9627.3
35°	10608.7	10649.7	10565.3	10327.9	9759.7	8963.1	8705.2	8965.3	9529.1	11423.5	9835.0
37.5°	11396.2	11460.0	11482.8	11257.0	10649.7	9718.5	9191.3	9385.4	9864.6	12001.0	10216.1
40°	12530.5	12619.5	12612.7	12288.6	11670.0	10738.8	9942.3	9992.5	10387.3	12772.5	10825.6
42.5°	14703.4	14721.6	14153.3	13448.0	12793.0	11811.5	10827.8	10786.7	11108.5	13749.3	11722.5
45°	17467.4	17392.1	16127.6	14765.0	13966.1	13044.1	11980.4	11779.6	12023.8	14940.7	12845.5
47.5°	19761.3	19587.8	17990.0	16109.3	15207.8	14383.8	13334.0	12982.5	13117.1	16291.9	14297.1
50°	20557.8	20427.7	19103.9	17227.7	16383.3	16018.1	15000.0	14502.5	14539.0	17903.3	15997.5
52.5°	20386.6	20368.4	19485.1	17965.0	17483.4	17734.4	17360.1	16686.8	16330.7	19692.7	17832.6
55°	19982.6	20021.4	19701.8	18823.1	18741.0	19391.5	20443.7	19946.1	18839.1	21498.1	19729.2
57.5°	18578.9	18679.4	19382.4	19902.7	20765.5	21733.2	22927.0	22785.4	21539.3	23449.6	21984.3
60°	14968.1	15200.9	17086.2	19692.7	22849.3	25875.8	26409.9	26081.3	24323.8	25871.2	24962.9
62.5°	10487.7	10729.6	12971.0	17049.7	22507.0	30554.8	32636.3	31219.0	28322.5	29438.7	28817.9
65°	5614.8	5731.2	7443.0	11829.8	19001.2	31520.3	41736.4	39579.5	34654.0	33837.0	32116.0
67.5°	3097.3	3161.1	3816.2	5973.1	12169.8	27756.5	47533.8	49163.4	42567.2	36765.3	31515.7
69°	2800.5	2859.9	3289.0	4523.8	8143.7	22949.8	46967.7	51690.0	46036.5	36475.4	29297.2
70°	2739.0	2793.7	3179.4	4170.0	6591.6	18916.7	45071.0	51044.1	46862.7	35436.9	27361.7
72.5°	2465.0	2524.3	2898.6	3745.4	5633.0	9431.0	35701.7	43158.3	42546.7	30726.0	20754.0
75°	2298.4	2353.2	2987.7	3667.9	5393.4	5968.5	23536.4	31807.8	31276.0	21493.6	11190.7
77.5°	983.8	979.2	1385.4	3104.1	5473.3	5779.1	12646.9	19870.8	18129.2	9186.7	3213.7
80°	657.3	645.9	657.3	913.0	5019.0	5811.1	6625.9	10086.0	7618.7	2341.7	1584.0
82.5°	566.0	556.9	577.5	556.9	1764.3	6632.7	5633.0	5363.7	3622.2	1330.7	785.1
85°	381.2	365.2	497.6	499.8	833.1	5893.2	6345.2	4530.6	2930.7	789.7	388.0
87.5°	182.6	178.0	289.9	353.7	488.5	2394.2	7118.9	4642.5	2955.7	404.0	184.8
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: P191185  
 CATALOG NUMBER: GLEON-AF-07-LED-E1-SL3-1200

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	12039.8	12039.8	12039.8	12039.8	12039.8	12039.8	12039.8	12039.8	12039.8	12039.8	12039.8
2.5°	11923.4	11829.8	11738.5	11628.9	11514.8	11387.0	11323.1	11259.2	11243.3	11224.9	11161.0
5°	11594.7	11462.4	11234.0	10983.0	10718.3	10460.4	10264.1	10140.8	10047.2	9999.3	9914.8
7.5°	11170.2	10976.2	10576.7	10143.1	9698.0	9291.8	8940.3	8718.8	8508.9	8410.7	8298.9
10°	10766.1	10476.3	9855.5	9216.4	8577.3	7963.4	7385.9	6977.3	6614.5	6411.3	6267.5
12.5°	10419.3	10022.2	9161.6	8296.6	7420.2	6546.0	5681.0	5000.8	4432.4	4133.4	3980.5
15°	10081.5	9602.1	8502.1	7404.2	6279.0	5089.8	3953.2	3181.7	2711.5	2524.3	2460.4
17.5°	9775.6	9161.6	7840.1	6504.9	5101.3	3663.3	2656.7	2232.2	2051.9	1990.3	1969.7
20°	9444.7	8716.6	7153.1	5564.5	3873.3	2560.9	2074.7	1887.5	1814.5	1796.3	1787.1
22.5°	9125.1	8278.3	6495.7	4558.0	2782.3	1976.5	1782.6	1705.0	1693.6	1709.6	1709.6
25°	8853.5	7885.7	5785.9	3505.8	2042.7	1663.9	1595.4	1577.2	1620.6	1679.9	1691.2
27.5°	8650.4	7563.9	5030.5	2588.3	1627.4	1447.1	1444.8	1474.5	1581.7	1695.8	1718.7
30°	8511.2	7258.1	4222.4	1867.0	1364.9	1273.6	1310.1	1374.0	1531.5	1693.6	1737.0
32.5°	8440.4	7032.2	3380.2	1444.8	1168.6	1118.4	1180.0	1257.6	1412.8	1563.5	1620.6
35°	8495.2	6865.5	2586.0	1205.1	1031.6	992.9	1056.8	1132.1	1223.3	1287.3	1330.7
37.5°	8700.6	6799.3	1951.5	1079.6	938.0	901.5	951.8	995.1	1031.6	1050.0	1070.4
40°	9143.3	6870.1	1563.5	1015.7	885.6	839.9	860.5	876.5	899.3	917.5	926.7
42.5°	9796.2	7082.4	1401.4	990.5	858.2	792.0	787.5	794.3	824.0	858.2	865.0
45°	10709.2	7456.7	1390.0	1006.6	844.4	753.2	732.6	741.7	787.5	839.9	849.0
47.5°	11875.4	8027.3	1481.3	1054.5	855.9	732.6	698.5	709.8	766.9	837.7	849.0
50°	13288.2	8823.9	1634.2	1125.2	906.1	737.2	687.0	693.9	753.2	830.8	842.2
52.5°	14956.8	9953.6	1800.8	1193.7	958.6	766.9	696.1	680.2	735.0	803.4	817.1
55°	16812.3	11402.9	1972.0	1255.4	986.0	803.4	714.4	662.0	700.7	757.8	769.2
57.5°	19090.2	13429.8	2268.7	1314.7	1004.2	828.5	732.6	643.6	657.3	698.5	707.6
60°	22173.8	16296.5	2791.4	1412.8	1045.4	837.7	730.4	627.7	614.0	636.8	641.4
62.5°	25869.0	19409.8	3227.3	1536.1	1113.8	844.4	716.7	616.2	577.5	577.5	582.1
65°	28062.4	20242.8	2985.4	1638.8	1170.9	837.7	700.7	604.9	550.0	525.0	527.2
67.5°	26202.2	17802.9	2558.6	1659.3	1168.6	805.7	675.6	584.3	522.6	483.9	481.6
69°	<b>23871.9</b>	<b>15360.7</b>	<b>2366.9</b>	<b>1604.5</b>	<b>1113.8</b>	<b>764.7</b>	<b>643.6</b>	<b>561.5</b>	<b>502.2</b>	<b>461.0</b>	<b>458.8</b>
70°	21993.4	13870.3	2241.4	1545.2	1054.5	735.0	618.6	540.9	486.1	447.3	442.8
72.5°	15990.7	9088.6	1915.0	1328.4	869.6	616.2	534.1	474.8	433.6	410.8	406.3
75°	7990.8	4334.3	1554.4	1077.3	666.5	493.0	438.2	397.1	376.7	372.0	369.8
77.5°	2624.8	1985.8	1111.5	803.4	495.3	385.8	353.7	324.1	319.6	333.3	328.7
80°	1442.5	1154.9	705.2	531.8	337.8	283.1	278.4	262.5	269.3	292.2	287.6
82.5°	735.0	600.3	436.0	319.6	228.2	203.2	221.4	212.3	221.4	241.9	239.7
85°	362.9	328.7	276.2	194.1	150.7	130.1	157.5	164.3	168.9	184.8	184.8
87.5°	210.0	194.1	146.1	91.2	75.3	68.4	91.2	89.0	105.0	114.2	111.8
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)