

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: P269718

Luminaire Tested: **GLEON-AF-10-LED-E1-SL3-7027-1200**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P269718  
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-10-LED-E1-SL3-7027-1200  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(10) 70 CRI, 2700K, 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: 56156.4 lumens  
Efficiency: N/A  
Efficacy: 87.7 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium - Non-Cutoff  
BUG Rating: B4 - U0 - G5

Input Watts (W): 640  
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

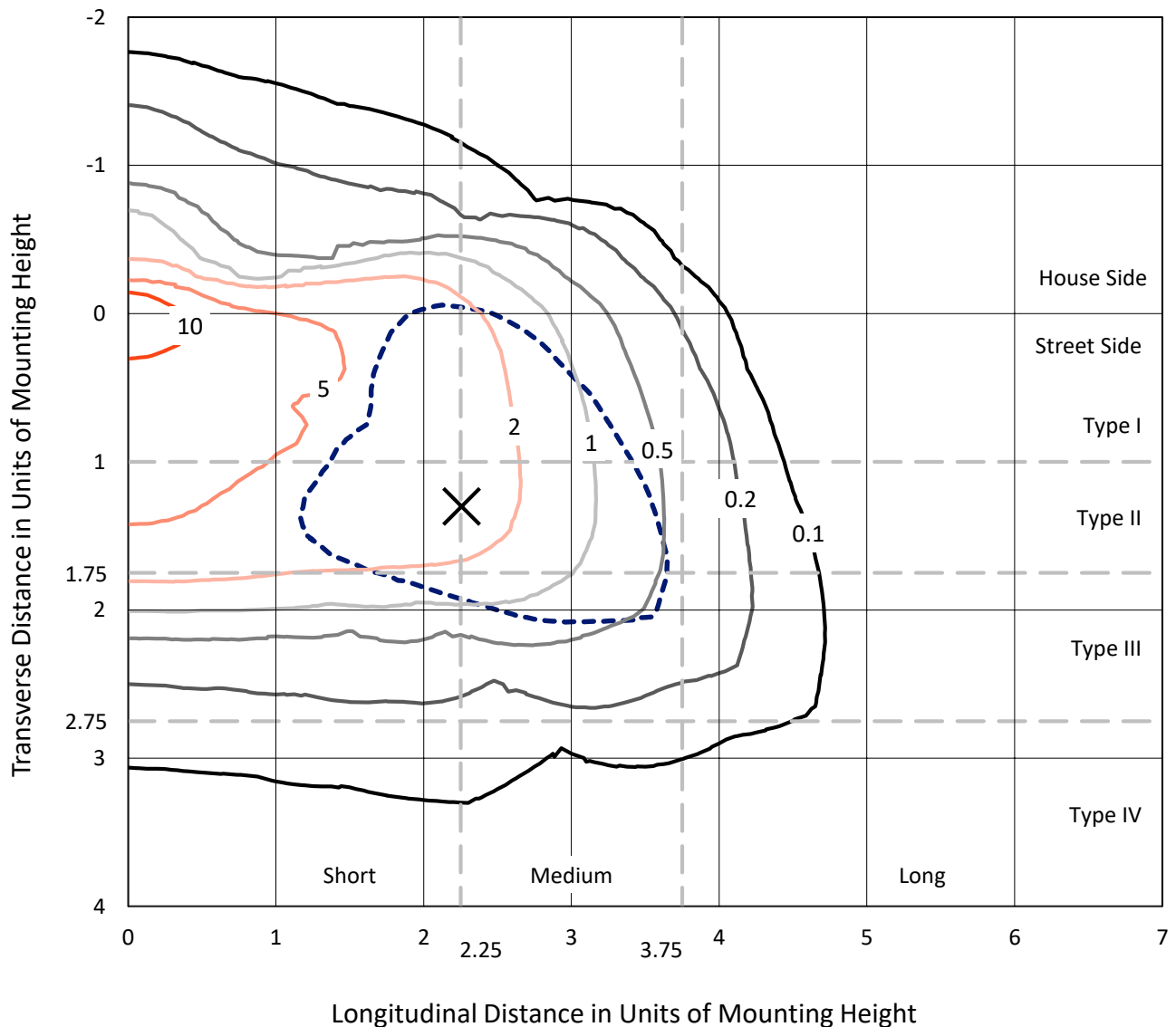


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

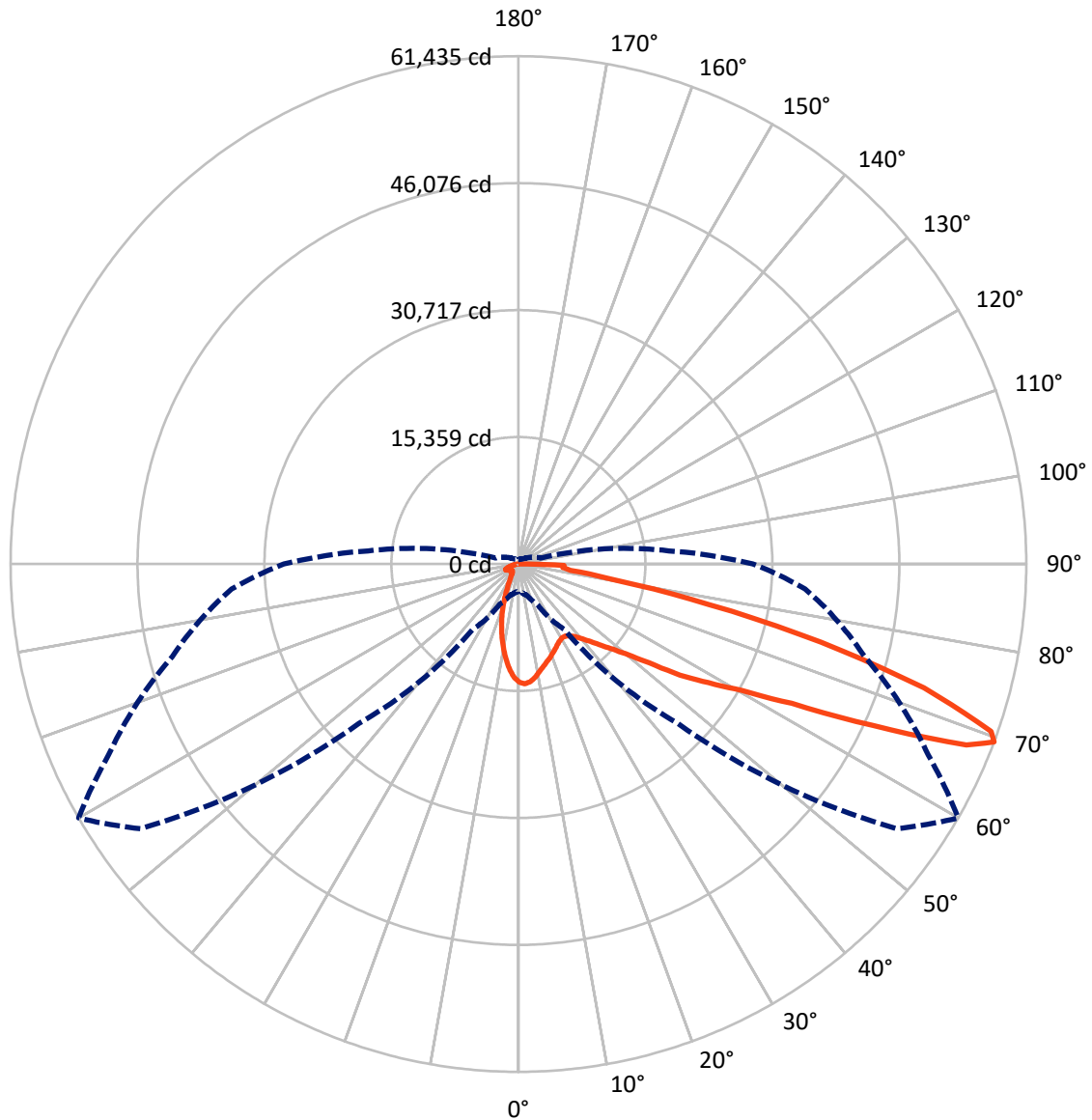


Based on 30 foot mounting height. Maximum calculated value = 15.9 fc  
 Type III - Medium - Non-Cutoff

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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	7989.3	0.0	7989.3
	% Fixture	14.2	0.0	14.2
<b>Street Side</b>	Lumens	48167.2	0.0	48167.2
	% Fixture	85.8	0.0	85.8
<b>Total</b>	Lumens	56156.4	0.0	56156.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1209.9	2.2
10°-20°	2577.8	4.6
20°-30°	3284.6	5.8
30°-40°	4515.5	8.0
40°-50°	7326.8	13.0
50°-60°	11750.3	20.9
60°-70°	15638.8	27.8
70°-80°	8443.7	15.0
80°-90°	1408.9	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°	56156.4	100.0
0°-180°	56156.4	100.0

**Coefficient of Utilization**



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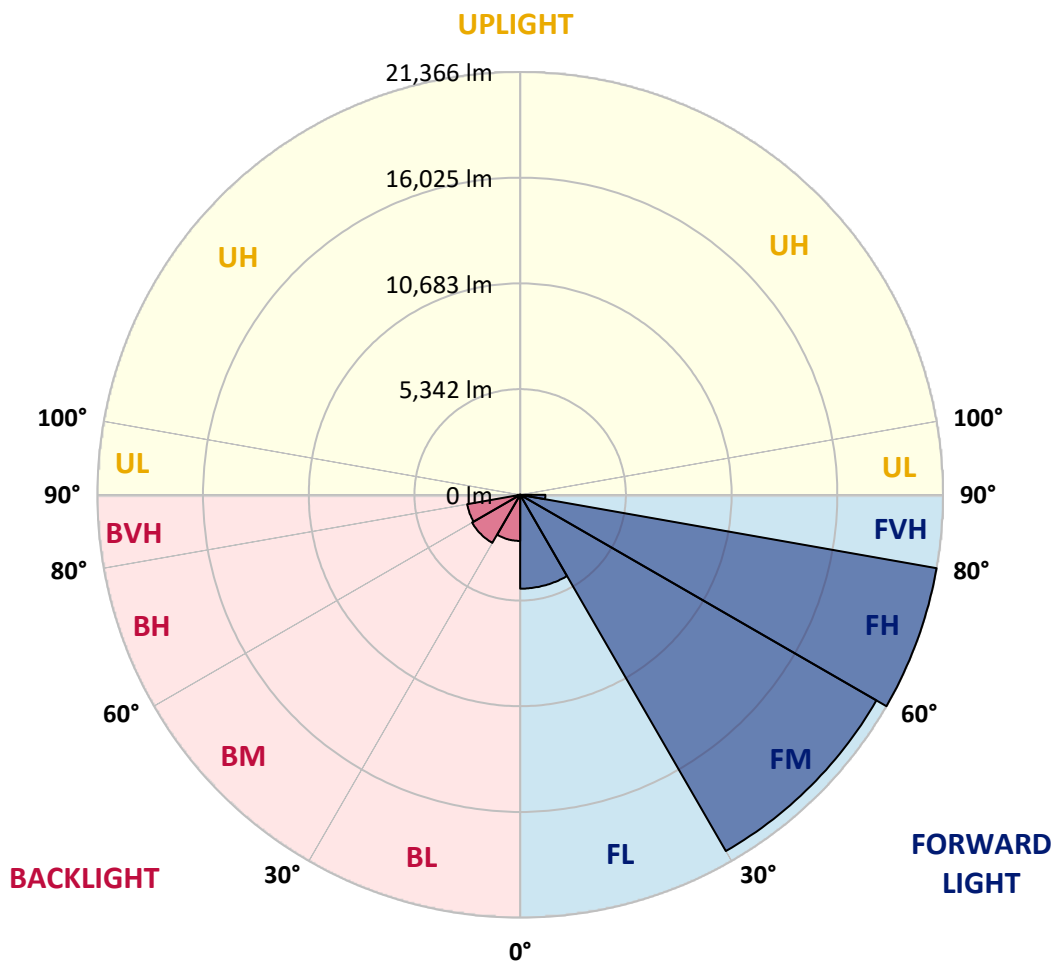
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4741.6	8.4			
FM (30°-60°)	20785.9	37.0			
FH (60°-80°)	21366.5	38.0			G5
FVH (80°-90°)	1273.2	2.3			G5
BL (0°-30°)	2330.7	4.2	B3/2500		
BM (30°-60°)	2806.8	5.0	B3/5000		
BH (60°-80°)	2716.1	4.8	B4/5000		G4/5000
BVH (80°-90°)	135.7	0.2			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G5**

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	14309.6	14309.6	14309.6	14309.6	14309.6	14309.6	14309.6	14309.6	14309.6	14309.6	14309.6
2.5°	14602.5	14635.0	14621.5	14613.4	14637.7	14599.8	14521.1	14496.7	14458.7	14369.2	14217.2
5°	14054.5	14152.2	14146.8	14220.0	14342.1	14374.6	14339.4	14344.8	14274.2	14163.0	13910.8
7.5°	13107.8	13148.5	13170.2	13330.2	13552.6	13731.8	13883.7	13932.4	13900.0	13805.0	13479.4
10°	12131.3	12163.8	12215.3	12402.4	12684.5	12931.6	13219.0	13384.4	13455.1	13438.7	13075.2
12.5°	11293.0	11325.6	11393.4	11604.9	11941.3	12245.2	12662.9	12869.1	13037.2	13137.6	12746.9
15°	10541.6	10612.0	10677.3	10921.4	11298.4	11697.2	12169.2	12429.6	12690.0	12915.2	12456.7
17.5°	9955.6	10026.2	10064.2	10286.6	10688.0	11176.4	11729.7	12036.3	12361.8	12730.7	12169.2
20°	9616.5	9649.1	9632.9	9757.6	10118.4	10636.6	11293.0	11648.3	12041.7	12557.0	11881.6
22.5°	9521.6	9524.3	9464.6	9451.1	9684.4	10121.2	10826.5	11257.6	11740.6	12443.2	11634.8
25°	9752.2	9744.0	9581.3	9448.4	9472.7	9727.7	10376.1	10877.9	11488.3	12418.8	11444.9
27.5°	10264.8	10289.2	10047.8	9798.4	9551.4	9543.4	10034.2	10563.3	11282.2	12530.0	11363.5
30°	10983.8	11024.4	10766.7	10449.4	9985.5	9603.1	9901.4	10376.1	11154.7	12760.6	11349.9
32.5°	11770.4	11813.8	11618.5	11284.9	10677.3	9971.8	9993.6	10392.4	11149.3	13083.4	11442.3
35°	12608.6	12657.5	12557.0	12275.0	11599.5	10652.8	10346.3	10655.4	11325.6	13577.2	11689.0
37.5°	13544.6	13620.6	13647.6	13379.0	12657.5	11550.6	10924.1	11154.7	11724.3	14263.4	12142.1
40°	14892.7	14998.6	14990.3	14605.3	13870.1	12763.3	11816.6	11876.2	12345.5	15180.3	12866.3
42.5°	17475.3	17496.9	16821.5	15983.3	15204.7	14038.3	12869.1	12820.3	13202.7	16341.3	13932.4
45°	20760.3	20670.8	19167.9	17548.5	16599.1	15503.0	14238.9	14000.3	14290.5	17757.3	15267.1
47.5°	23486.5	23280.5	21381.5	19146.3	18074.7	17095.5	15847.5	15429.8	15589.9	19363.2	16992.3
50°	24433.3	24278.8	22705.3	20475.4	19471.8	19037.8	17827.9	17236.5	17279.9	21278.4	19013.3
52.5°	24229.9	24208.2	23158.3	21351.8	20779.4	21077.7	20632.8	19832.6	19409.4	23405.2	21194.4
55°	23749.7	23795.8	23416.1	22371.7	22274.1	23047.2	24297.6	23706.4	22390.7	25551.0	23448.5
57.5°	22081.3	22200.8	23036.2	23654.8	24680.2	25830.4	27249.0	27080.9	25599.8	27870.4	26128.8
60°	17789.9	18066.6	20307.4	23405.2	27156.9	30754.0	31388.7	30998.1	28909.3	30748.5	29668.9
62.5°	12464.9	12752.3	15416.4	20263.8	26750.0	36315.1	38789.0	37104.4	33661.9	34988.4	34250.5
65°	6673.2	6811.6	8846.1	14059.9	22583.3	37462.5	49604.4	47041.1	41187.0	40215.9	38170.5
67.5°	3681.2	3757.2	4535.6	7099.1	14464.1	32989.1	56494.8	58431.6	50592.0	43696.3	37457.0
69°	3328.5	3399.0	3909.1	5376.5	9678.9	27276.2	55822.0	61434.6	54715.3	43351.8	34820.3
70°	3255.3	3320.3	3778.8	4956.0	7834.3	22482.9	53567.8	60666.9	55697.3	42117.5	32519.9
72.5°	2929.7	3000.2	3445.1	4451.6	6695.0	11209.0	42432.1	51294.5	50567.5	36518.4	24666.6
75°	2731.7	2796.9	3550.9	4359.4	6410.1	7093.7	27973.4	37804.2	37172.1	25545.6	13300.3
77.5°	1169.1	1163.8	1646.7	3689.2	6505.0	6868.6	15031.1	23616.8	21547.0	10918.5	3819.6
80°	781.3	767.7	781.3	1085.2	5965.3	6906.6	7875.0	11987.4	9055.0	2783.2	1882.6
82.5°	672.7	662.0	686.3	662.0	2097.0	7883.2	6695.0	6374.8	4305.0	1581.5	933.2
85°	453.0	434.1	591.4	594.0	990.1	7004.3	7541.4	5384.7	3483.1	938.5	461.2
87.5°	217.0	211.6	344.5	420.4	580.6	2845.7	8461.0	5517.6	3512.9	480.1	219.7
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°	14309.6	14309.6	14309.6	14309.6	14309.6	14309.6	14309.6	14309.6	14309.6	14309.6	14309.6
2.5°	14171.1	14059.9	13951.4	13821.2	13685.6	13533.7	13457.7	13381.8	13362.7	13341.1	13265.1
5°	13780.4	13623.2	13352.0	13053.5	12738.9	12432.4	12199.1	12052.6	11941.3	11884.3	11784.0
7.5°	13276.1	13045.4	12570.7	12055.3	11526.3	11043.5	10625.6	10362.5	10112.9	9996.2	9863.4
10°	12795.8	12451.2	11713.4	10953.9	10194.3	9464.6	8778.2	8292.8	7861.3	7620.1	7449.0
12.5°	12383.5	11911.4	10888.7	9860.6	8819.0	7780.0	6751.9	5943.5	5268.1	4912.7	4731.0
15°	11982.0	11412.3	10104.9	8800.1	7462.7	6049.4	4698.4	3781.5	3222.7	3000.2	2924.3
17.5°	11618.5	10888.7	9318.2	7731.3	6062.9	4353.8	3157.6	2653.1	2438.7	2365.4	2341.1
20°	11225.2	10359.9	8501.6	6613.6	4603.5	3043.6	2465.8	2243.3	2156.7	2134.9	2124.0
22.5°	10845.3	9839.0	7720.4	5417.3	3306.8	2349.2	2118.7	2026.3	2012.8	2031.8	2031.8
25°	10522.6	9372.3	6876.7	4166.7	2427.8	1977.6	1896.2	1874.5	1926.1	1996.6	2010.0
27.5°	10281.1	8989.9	5978.8	3076.2	1934.2	1719.8	1717.1	1752.5	1880.0	2015.5	2042.7
30°	10115.6	8626.5	5018.6	2219.1	1622.2	1513.6	1557.1	1633.1	1820.2	2012.8	2064.3
32.5°	10031.6	8357.8	4017.5	1717.1	1388.9	1329.2	1402.4	1494.7	1679.1	1858.2	1926.1
35°	10096.7	8159.8	3073.6	1432.3	1226.1	1180.1	1256.0	1345.5	1453.9	1530.0	1581.5
37.5°	10340.7	8081.2	2319.3	1283.0	1114.9	1071.5	1131.1	1182.8	1226.1	1247.8	1272.3
40°	10867.1	8165.2	1858.2	1207.1	1052.5	998.2	1022.7	1041.7	1068.9	1090.5	1101.3
42.5°	11642.9	8417.5	1665.5	1177.3	1019.9	941.3	935.9	943.9	979.3	1019.9	1028.1
45°	12728.1	8862.4	1652.1	1196.4	1003.6	895.3	870.7	881.6	935.9	998.2	1009.2
47.5°	14114.2	9540.5	1760.6	1253.2	1017.3	870.7	830.0	843.7	911.5	995.5	1009.2
50°	15793.5	10487.4	1942.2	1337.3	1077.0	876.1	816.5	824.6	895.3	987.4	1001.0
52.5°	17776.4	11830.0	2140.3	1418.8	1139.3	911.5	827.3	808.4	873.5	954.9	971.2
55°	19981.8	13552.6	2343.8	1491.9	1171.8	954.9	849.1	786.6	832.8	900.6	914.1
57.5°	22689.1	15961.5	2696.4	1562.5	1193.6	984.7	870.7	764.9	781.3	830.0	841.0
60°	26353.9	19368.7	3317.6	1679.1	1242.4	995.5	868.0	746.0	729.8	756.8	762.3
62.5°	30745.7	23068.8	3835.8	1825.6	1323.8	1003.6	851.9	732.4	686.3	686.3	691.8
65°	33352.7	24058.9	3548.2	1947.7	1391.7	995.5	832.8	718.9	653.7	624.0	626.7
67.5°	31141.8	21159.0	3040.9	1972.0	1388.9	957.7	802.9	694.5	621.2	575.0	572.4
69°	28372.2	18256.6	2813.1	1907.0	1323.8	908.7	764.9	667.4	596.8	548.0	545.2
70°	26139.6	16485.1	2663.8	1836.6	1253.2	873.5	735.2	642.8	577.8	531.6	526.2
72.5°	19005.3	10801.9	2275.9	1578.9	1033.5	732.4	634.7	564.2	515.4	488.3	482.8
75°	9497.2	5151.4	1847.4	1280.4	792.1	586.0	520.8	472.0	447.5	442.1	439.5
77.5°	3119.6	2360.0	1321.0	954.9	588.7	458.5	420.4	385.3	379.8	396.1	390.7
80°	1714.4	1372.6	838.2	632.0	401.5	336.3	330.9	311.9	320.1	347.3	341.7
82.5°	873.5	713.4	518.1	379.8	271.3	241.5	263.2	252.2	263.2	287.5	284.9
85°	431.4	390.7	328.2	230.5	179.0	154.6	187.1	195.3	200.7	219.7	219.7
87.5°	249.5	230.5	173.6	108.5	89.6	81.3	108.5	105.8	124.8	135.6	132.9
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)