

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: P299930

Luminaire Tested: **GLNA-AF-10-LED-E1-SL3-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P299930
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: GLNA-AF-10-LED-E1-SL3-7030-800
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 3000K CCT 800mA LIGHTSQUARE WITH 16 LEDS EACH AND Type V
Square Medium OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 45885 lumens
Efficiency: N/A
Efficacy: 109.5 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B3 - U0 - G5

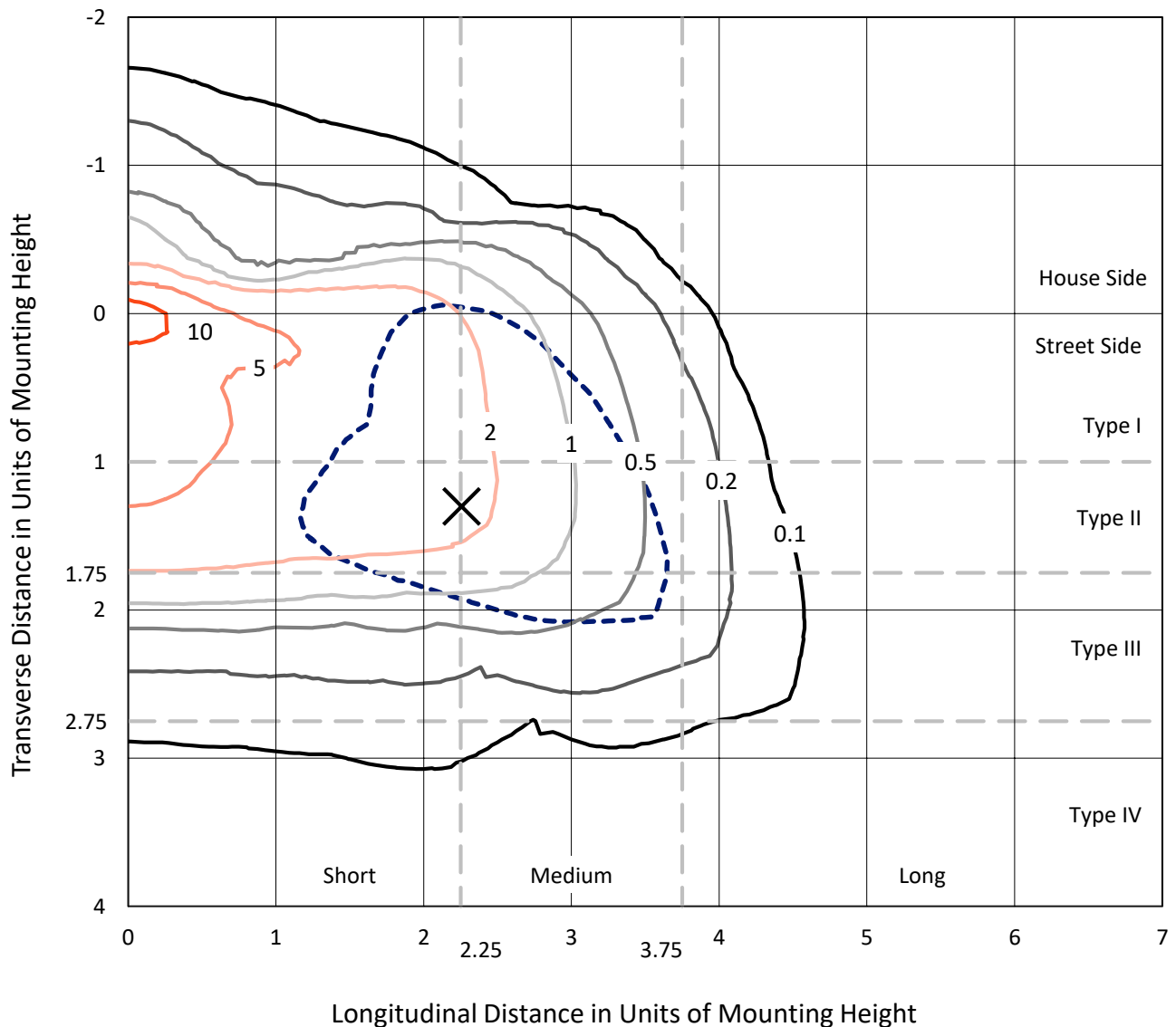
Input Watts (W): 419
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

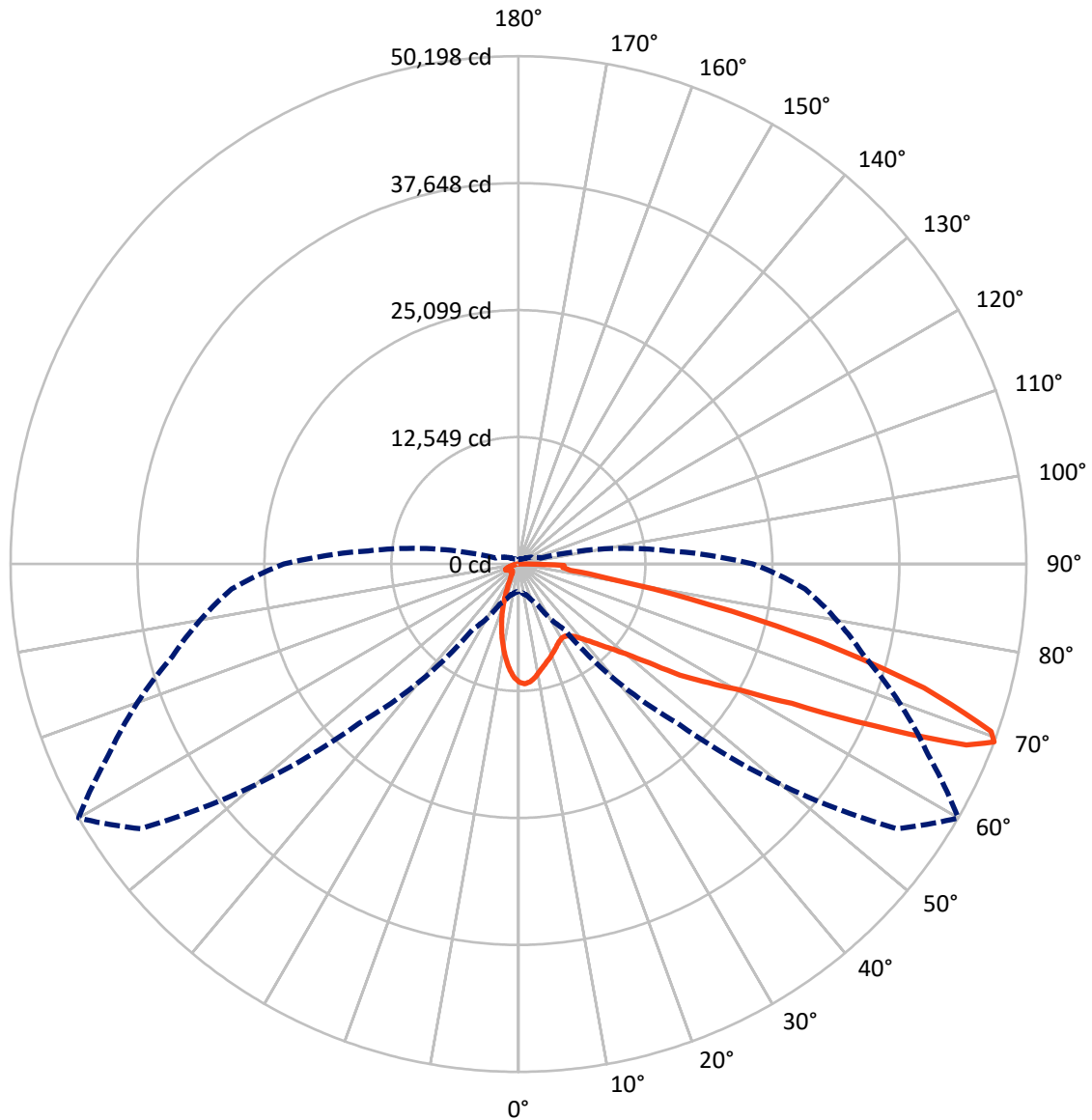
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 13 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
House Side	Lumens	6528.0	0.0	6528.0
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	39357.0	0.0	39357.0
	% Fixture	85.8	0.0	85.8
Total	Lumens	45885.0	0.0	45885.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	988.6	2.2
10°-20°	2106.3	4.6
20°-30°	2683.8	5.8
30°-40°	3689.6	8.0
40°-50°	5986.7	13.0
50°-60°	9601.1	20.9
60°-70°	12778.4	27.8
70°-80°	6899.3	15.0
80°-90°	1151.2	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°	45885.0	100.0
0°-180°	45885.0	100.0

Coefficient of Utilization



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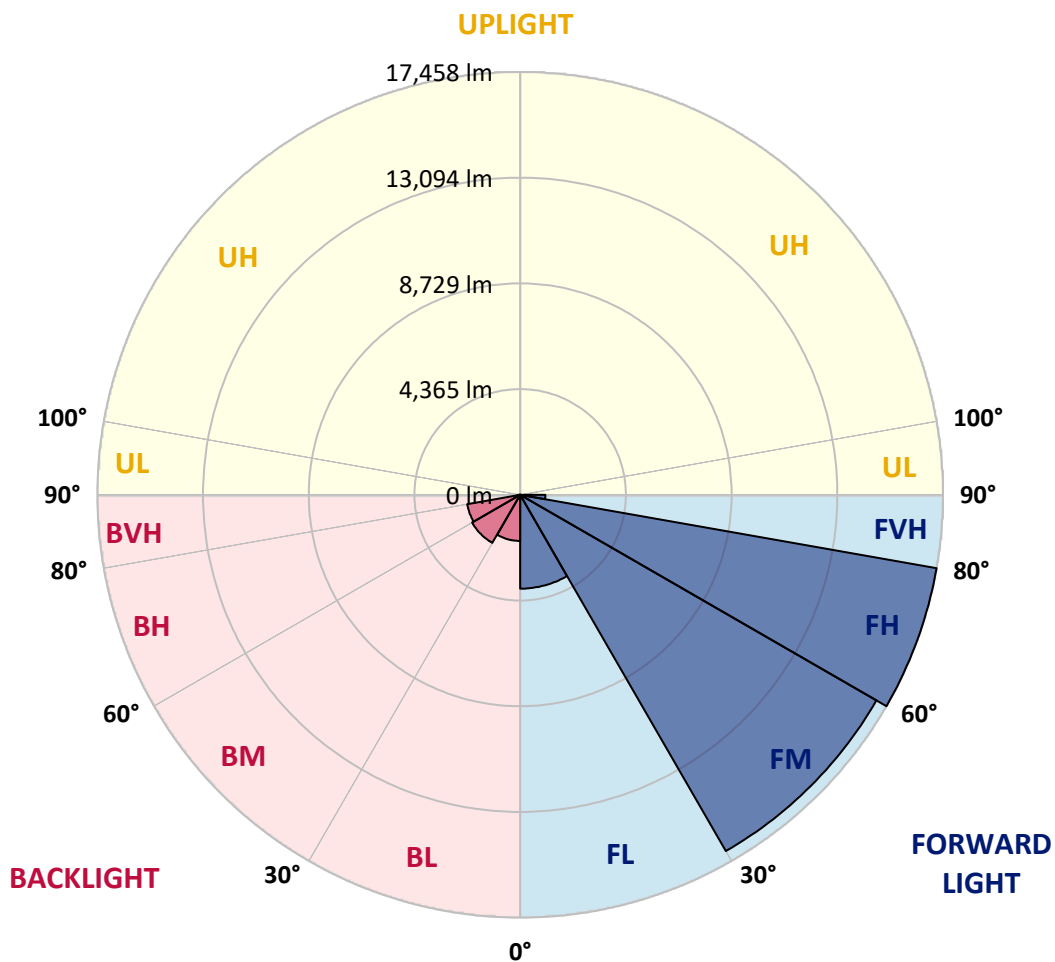
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3874.3	8.4			
FM (30°-60°)	16984.0	37.0			
FH (60°-80°)	17458.4	38.0			G5
FVH (80°-90°)	1040.3	2.3			G5
BL (0°-30°)	1904.4	4.2	B3/2500		
BM (30°-60°)	2293.4	5.0	B2/2500		
BH (60°-80°)	2219.3	4.8	B3/2500		G3/2500
BVH (80°-90°)	110.9	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	11692.2	11692.2	11692.2	11692.2	11692.2	11692.2	11692.2	11692.2	11692.2	11692.2	11692.2
2.5°	11931.6	11958.2	11947.1	11940.4	11960.4	11929.4	11865.1	11845.1	11814.1	11741.0	11616.8
5°	11483.8	11563.6	11559.2	11619.1	11718.8	11745.4	11716.6	11721.0	11663.4	11572.5	11366.4
7.5°	10710.3	10743.5	10761.3	10892.0	11073.8	11220.1	11344.2	11384.1	11357.5	11279.9	11013.9
10°	9912.3	9938.9	9981.0	10134.0	10364.5	10566.2	10801.2	10936.4	10994.0	10980.7	10683.7
12.5°	9227.4	9254.0	9309.4	9482.3	9757.2	10005.4	10346.8	10515.2	10652.6	10734.7	10415.5
15°	8613.4	8671.1	8724.3	8923.8	9231.8	9557.7	9943.4	10156.1	10368.9	10552.9	10178.3
17.5°	8134.7	8192.3	8223.3	8405.1	8733.1	9132.1	9584.3	9834.7	10100.7	10402.2	9943.4
20°	7857.6	7884.2	7870.9	7972.9	8267.7	8691.0	9227.4	9517.8	9839.2	10260.3	9708.4
22.5°	7780.0	7782.2	7733.5	7722.4	7913.0	8269.9	8846.2	9198.6	9593.1	10167.2	9506.7
25°	7968.4	7961.8	7828.8	7720.2	7740.1	7948.5	8478.2	8888.3	9387.0	10147.3	9351.5
27.5°	8387.3	8407.3	8210.0	8006.1	7804.4	7797.8	8198.9	8631.2	9218.5	10238.2	9285.0
30°	8974.7	9008.0	8797.4	8538.1	8159.0	7846.5	8090.3	8478.2	9114.4	10426.6	9274.0
32.5°	9617.5	9653.0	9493.4	9220.8	8724.3	8148.0	8165.7	8491.5	9109.9	10690.3	9349.3
35°	10302.4	10342.3	10260.3	10029.8	9477.9	8704.3	8453.8	8706.5	9254.0	11093.7	9551.0
37.5°	11067.1	11129.2	11151.4	10931.9	10342.3	9438.0	8926.0	9114.4	9579.8	11654.5	9921.2
40°	12168.8	12255.2	12248.5	11933.8	11333.1	10428.8	9655.2	9704.0	10087.4	12403.7	10513.0
42.5°	14278.9	14296.6	13744.7	13059.8	12423.7	11470.5	10515.2	10475.3	10787.9	13352.4	11384.1
45°	16963.1	16890.0	15662.0	14338.7	13562.9	12667.5	11634.6	11439.5	11676.7	14509.4	12474.6
47.5°	19190.7	19022.3	17470.7	15644.3	14768.7	13968.6	12949.0	12607.6	12738.4	15821.6	13884.3
50°	19964.3	19837.9	18552.4	16730.4	15910.3	15555.6	14567.0	14083.8	14119.3	17386.5	15535.7
52.5°	19798.0	19780.3	18922.5	17446.3	16978.6	17222.4	16858.9	16205.1	15859.3	19124.2	17317.7
55°	19405.7	19443.4	19133.1	18279.7	18199.9	18831.6	19853.5	19370.3	18295.2	20877.5	19159.7
57.5°	18042.6	18140.1	18822.8	19328.1	20166.0	21105.8	22265.0	22127.6	20917.4	22772.6	21349.6
60°	14536.0	14762.1	16592.9	19124.2	22189.7	25128.8	25647.5	25328.3	23621.6	25124.4	24242.2
62.5°	10185.0	10419.9	12596.5	16557.5	21857.2	29672.7	31694.2	30317.7	27504.9	28588.8	27985.9
65°	5452.7	5565.7	7228.1	11488.3	18452.6	30610.3	40531.5	38436.8	33653.6	32860.1	31188.8
67.5°	3007.8	3069.9	3706.0	5800.7	11818.5	26955.2	46161.5	47744.1	41338.3	35703.9	30605.8
69°	2719.7	2777.3	3194.0	4393.2	7908.6	22287.2	45611.8	50197.8	44707.4	35422.4	28451.4
70°	2659.8	2713.0	3087.6	4049.6	6401.3	18370.6	43769.8	49570.5	45509.8	34413.8	26571.8
72.5°	2393.9	2451.5	2815.0	3637.3	5470.4	9158.7	34671.0	41912.4	41318.3	29838.9	20154.9
75°	2232.0	2285.2	2901.4	3562.0	5237.7	5796.2	22856.9	30889.6	30373.1	20873.1	10867.6
77.5°	955.3	950.9	1345.4	3014.5	5315.2	5612.3	12281.8	19297.1	17605.9	8921.5	3120.9
80°	638.4	627.3	638.4	886.6	4874.1	5643.3	6434.6	9794.8	7398.8	2274.2	1538.3
82.5°	549.7	540.8	560.8	540.8	1713.4	6441.2	5470.4	5208.8	3517.6	1292.2	762.5
85°	370.2	354.6	483.2	485.4	809.0	5723.1	6162.0	4399.8	2846.0	766.9	376.8
87.5°	177.3	172.9	281.5	343.6	474.3	2325.1	6913.4	4508.4	2870.4	392.3	179.5
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°	11692.2	11692.2	11692.2	11692.2	11692.2	11692.2	11692.2	11692.2	11692.2	11692.2	11692.2
2.5°	11579.2	11488.3	11399.6	11293.2	11182.4	11058.3	10996.2	10934.1	10918.6	10900.9	10838.8
5°	11260.0	11131.4	10909.8	10665.9	10408.8	10158.4	9967.7	9848.0	9757.2	9710.6	9628.6
7.5°	10847.7	10659.3	10271.4	9850.3	9418.0	9023.5	8682.1	8467.1	8263.2	8167.9	8059.3
10°	10455.4	10173.9	9571.0	8950.3	8329.7	7733.5	7172.7	6775.9	6423.5	6226.2	6086.6
12.5°	10118.5	9732.8	8897.2	8057.1	7205.9	6357.0	5516.9	4856.4	4304.5	4014.1	3865.6
15°	9790.4	9324.9	8256.6	7190.4	6097.7	4942.9	3839.0	3089.8	2633.2	2451.5	2389.4
17.5°	9493.4	8897.2	7613.8	6317.1	4953.9	3557.5	2580.0	2167.8	1992.7	1932.8	1912.9
20°	9172.0	8464.9	6946.6	5403.9	3761.5	2486.9	2014.8	1833.1	1762.1	1744.4	1735.5
22.5°	8861.7	8039.4	6308.2	4426.4	2702.0	1919.5	1731.1	1655.7	1644.7	1660.2	1660.2
25°	8597.9	7658.1	5618.9	3404.6	1983.8	1615.9	1549.4	1531.6	1573.7	1631.4	1642.4
27.5°	8400.6	7345.6	4885.2	2513.5	1580.4	1405.3	1403.1	1431.9	1536.1	1646.9	1669.0
30°	8265.4	7048.6	4100.6	1813.1	1325.5	1236.8	1272.3	1334.4	1487.3	1644.7	1686.8
32.5°	8196.7	6829.1	3282.7	1403.1	1134.9	1086.1	1145.9	1221.3	1372.0	1518.3	1573.7
35°	8249.9	6667.3	2511.3	1170.3	1001.9	964.2	1026.3	1099.4	1188.1	1250.1	1292.2
37.5°	8449.4	6603.0	1895.1	1048.4	911.0	875.5	924.3	966.4	1001.9	1019.6	1039.6
40°	8879.4	6671.8	1518.3	986.4	860.0	815.7	835.6	851.1	873.3	891.0	899.9
42.5°	9513.3	6877.9	1360.9	962.0	833.4	769.1	764.7	771.4	800.2	833.4	840.1
45°	10400.0	7241.4	1349.9	977.5	820.1	731.5	711.5	720.4	764.7	815.7	824.5
47.5°	11532.6	7795.5	1438.5	1024.0	831.2	711.5	678.3	689.3	744.8	813.5	824.5
50°	12904.6	8569.1	1587.0	1092.7	880.0	715.9	667.2	673.8	731.5	806.8	817.9
52.5°	14524.9	9666.3	1748.8	1159.2	930.9	744.8	676.0	660.5	713.7	780.2	793.5
55°	16327.0	11073.8	1915.1	1219.1	957.5	780.2	693.8	642.8	680.5	735.9	747.0
57.5°	18539.1	13042.1	2203.2	1276.7	975.3	804.6	711.5	625.1	638.4	678.3	687.1
60°	21533.6	15826.0	2710.8	1372.0	1015.2	813.5	709.3	609.5	596.2	618.4	622.8
62.5°	25122.2	18849.4	3134.2	1491.7	1081.7	820.1	696.0	598.5	560.8	560.8	565.2
65°	27252.2	19658.4	2899.2	1591.5	1137.1	813.5	680.5	587.4	534.2	509.8	512.0
67.5°	25445.8	17288.9	2484.7	1611.4	1134.9	782.4	656.1	567.4	507.6	469.9	467.7
69°	23182.7	14917.2	2298.5	1558.2	1081.7	742.5	625.1	545.3	487.6	447.7	445.5
70°	21358.5	13469.9	2176.6	1500.6	1024.0	713.7	600.7	525.3	472.1	434.4	430.0
72.5°	15529.0	8826.2	1859.7	1290.0	844.5	598.5	518.7	461.0	421.1	399.0	394.5
75°	7760.1	4209.2	1509.5	1046.2	647.2	478.8	425.6	385.7	365.7	361.3	359.1
77.5°	2549.0	1928.4	1079.5	780.2	481.0	374.6	343.6	314.7	310.3	323.6	319.2
80°	1400.8	1121.6	684.9	516.5	328.0	274.8	270.4	254.9	261.6	283.7	279.3
82.5°	713.7	582.9	423.4	310.3	221.7	197.3	215.0	206.1	215.0	235.0	232.7
85°	352.4	319.2	268.2	188.4	146.3	126.3	152.9	159.6	164.0	179.5	179.5
87.5°	203.9	188.4	141.9	88.7	73.1	66.5	88.7	86.4	102.0	110.8	108.6
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)