

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: P191648

Luminaire Tested: **GLEON-AF-10-LED-E1-5NQ-7050-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191648
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24141)
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-E1-5NQ-7050-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 5000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 49102 lumens
Efficiency: N/A
Efficacy: 117.2 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B5 - U0 - G3

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

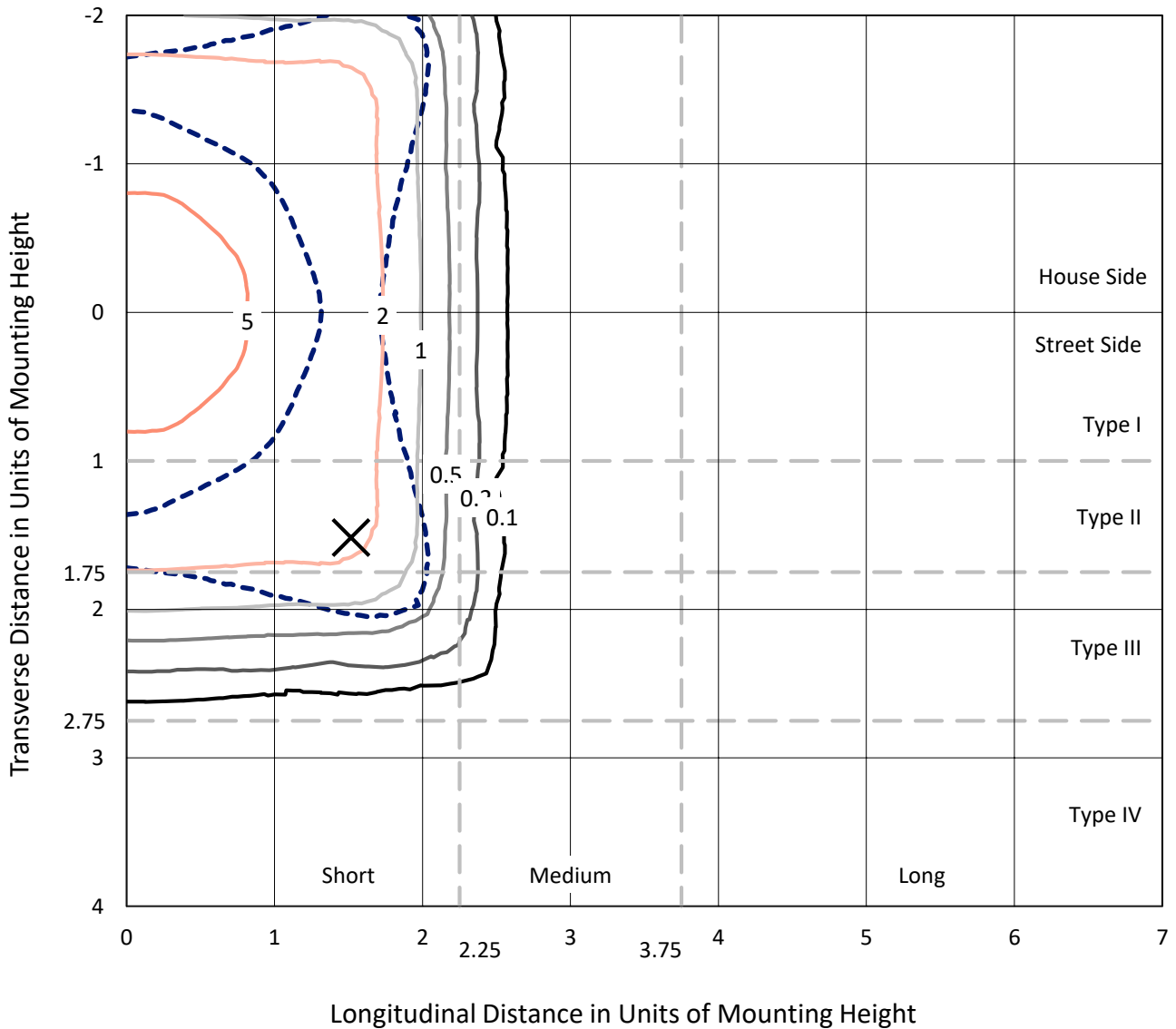


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

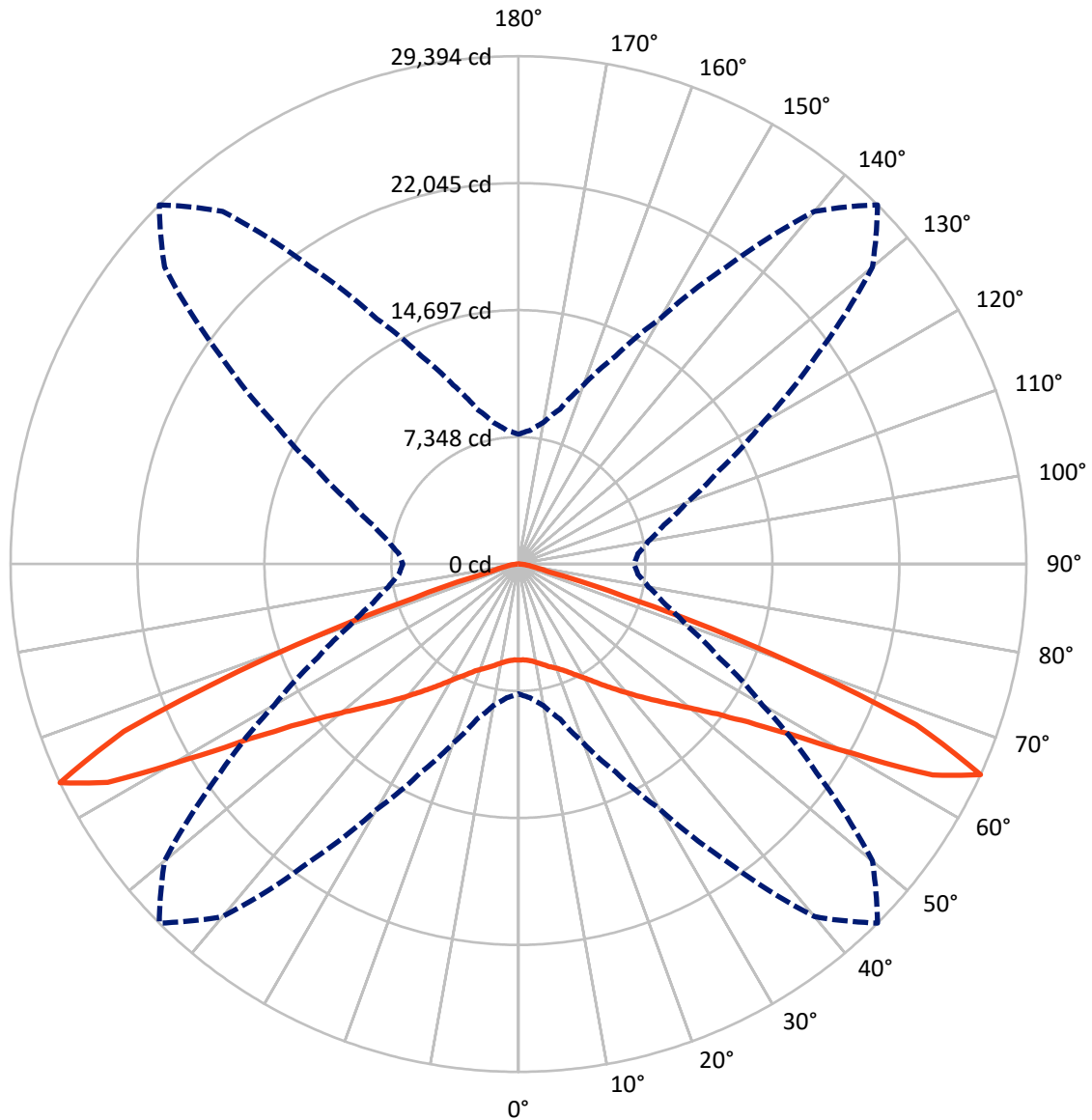


Based on 30 foot mounting height. Maximum calculated value = 6.2 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	24551.0	0.0	24551.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	24551.0	0.0	24551.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	49102.0	0.0	49102.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	541.5	1.1
10°-20°	1736.8	3.5
20°-30°	3247.4	6.6
30°-40°	5492.3	11.2
40°-50°	8980.5	18.3
50°-60°	14280.4	29.1
60°-70°	12908.5	26.3
70°-80°	1633.6	3.3
80°-90°	281.0	0.6
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°	49102.0	100.0
0°-180°	49102.0	100.0



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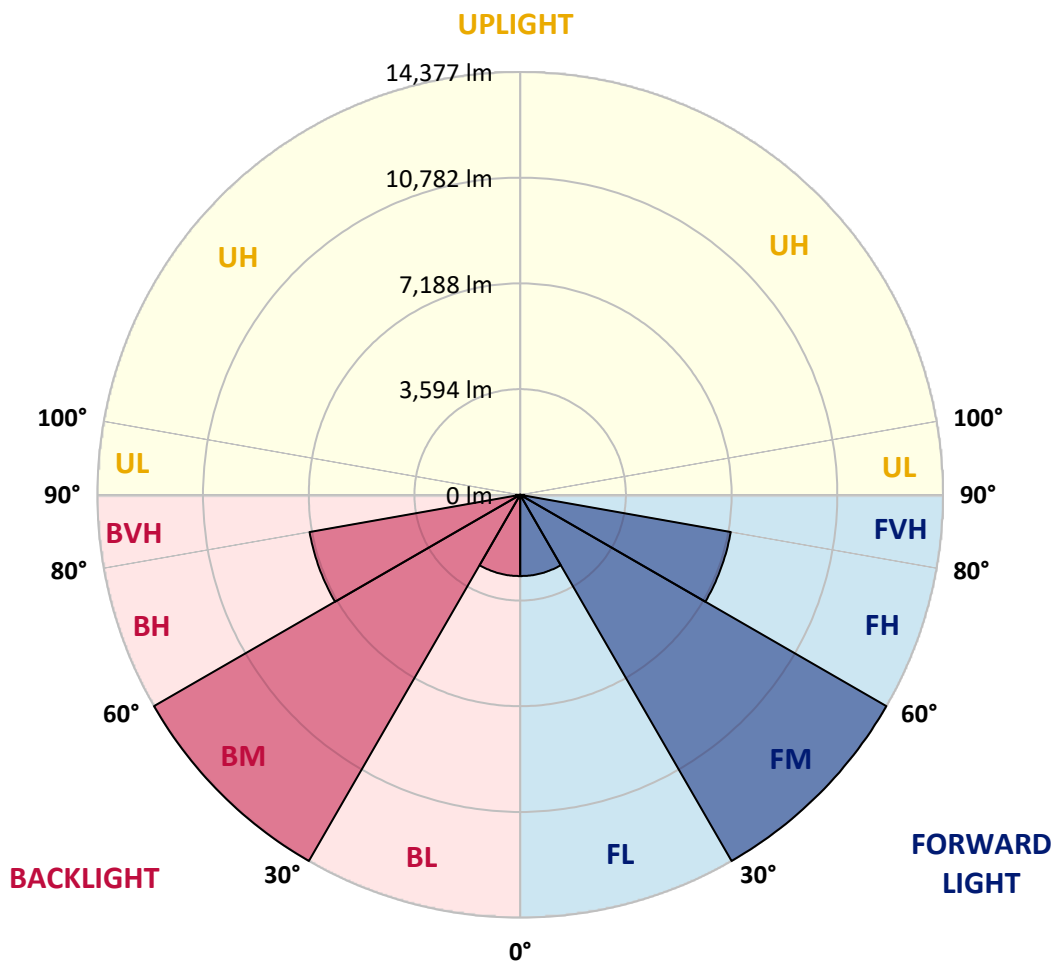
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2762.9	5.6			
FM	(30°-60°)	14376.6	29.3			
FH	(60°-80°)	7271.1	14.8			G3/7500
FVH	(80°-90°)	140.5	0.3			G2/225
BL	(0°-30°)	2762.9	5.6	B4/5000		
BM	(30°-60°)	14376.6	29.3	B5		
BH	(60°-80°)	7271.1	14.8	B5		G3/7500
BVH	(80°-90°)	140.5	0.3			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	5555.9	5555.9	5555.9	5555.9	5555.9	5555.9	5555.9	5555.9	5555.9	5555.9	5555.9
2.5°	5560.5	5565.1	5569.7	5565.1	5569.7	5562.8	5558.2	5565.1	5558.2	5551.3	5555.9
5°	5608.8	5611.1	5611.1	5604.2	5611.1	5606.5	5599.6	5608.8	5601.9	5595.0	5599.6
7.5°	5689.3	5698.5	5691.6	5684.7	5689.3	5684.7	5680.1	5682.4	5680.1	5673.2	5675.5
10°	5797.4	5804.3	5799.7	5797.4	5802.0	5799.7	5795.1	5792.8	5795.1	5788.2	5788.2
12.5°	5928.5	5926.2	5923.9	5926.2	5933.1	5933.1	5930.8	5933.1	5937.7	5940.0	5935.4
15°	6057.2	6061.8	6061.8	6061.8	6075.6	6087.1	6094.0	6098.6	6107.8	6110.1	6100.9
17.5°	6218.2	6218.2	6215.9	6218.2	6232.0	6250.4	6257.3	6266.5	6275.7	6282.6	6271.1
20°	6397.6	6402.2	6402.2	6406.8	6425.2	6445.9	6445.9	6450.5	6445.9	6450.5	6443.6
22.5°	6616.0	6629.8	6629.8	6632.1	6650.5	6675.8	6668.9	6675.8	6664.3	6673.5	6664.3
25°	6901.2	6921.9	6917.3	6917.3	6931.1	6947.2	6949.5	6963.3	6961.0	6972.5	6965.6
27.5°	7223.2	7255.3	7264.5	7262.2	7271.4	7287.5	7292.1	7308.2	7299.0	7308.2	7303.6
30°	7609.5	7623.3	7641.7	7648.6	7660.1	7676.2	7676.2	7678.5	7667.0	7680.8	7687.7
32.5°	8009.6	8034.9	8053.3	8094.7	8115.4	8126.9	8124.6	8129.2	8117.7	8136.1	8149.9
35°	8538.5	8556.9	8586.8	8619.0	8646.6	8644.3	8637.4	8639.7	8639.7	8655.8	8669.6
37.5°	9175.5	9180.1	9219.2	9265.2	9279.0	9265.2	9223.8	9214.6	9193.9	9214.6	9237.6
40°	9849.3	9865.4	9943.6	9973.5	9980.4	9955.1	9895.3	9860.8	9814.8	9840.1	9872.3
42.5°	10555.3	10587.5	10658.8	10711.7	10734.7	10718.6	10635.8	10582.9	10523.1	10536.9	10569.1
45°	11337.2	11376.3	11477.5	11528.1	11571.8	11546.5	11466.0	11385.5	11291.2	11298.1	11348.7
47.5°	12211.1	12250.2	12381.2	12466.3	12489.3	12484.7	12395.0	12284.6	12155.9	12151.3	12195.0
50°	13190.7	13229.8	13393.1	13524.2	13590.8	13583.9	13478.2	13321.8	13165.4	13167.7	13222.9
52.5°	14147.4	14195.6	14365.8	14591.2	14722.3	14816.5	14752.2	14605.0	14414.1	14418.7	14469.3
55°	15044.2	15124.7	15320.2	15626.0	15869.8	16134.2	16210.1	16205.5	16090.5	16122.7	16173.3
57.5°	15478.8	15598.4	15899.7	16382.6	16879.3	17417.4	17872.8	18213.1	18358.0	18576.4	18525.9
60°	14655.6	14846.4	15290.3	16000.9	16982.8	18105.0	19307.7	20482.8	21485.5	22242.1	21807.4
62.5°	11999.5	12247.9	12786.0	13696.6	15182.2	16978.2	19280.1	22058.1	25084.4	26910.3	25606.4
65°	7508.3	7765.9	8313.2	9288.2	11026.7	13259.7	16382.6	20986.5	26641.3	29393.9	26740.2
67.5°	2927.4	3067.7	3364.4	3987.6	5293.8	7280.6	10415.0	15639.8	22403.0	24815.4	21986.8
70°	1467.2	1481.0	1536.2	1651.1	1931.7	2508.9	3817.4	7250.7	12848.1	15517.9	12385.8
72.5°	1060.1	1062.4	1090.0	1140.6	1230.3	1359.1	1607.4	2219.1	4178.4	6386.1	3916.3
75°	811.8	821.0	837.1	864.7	913.0	977.3	1067.0	1278.6	1584.4	1837.4	1545.4
77.5°	625.5	643.9	655.4	680.7	710.6	754.3	779.6	860.1	1000.3	1053.2	1037.1
80°	476.0	492.1	517.4	538.1	558.8	579.5	570.3	607.1	680.7	724.4	701.4
82.5°	303.6	321.9	395.5	413.9	423.1	436.9	420.8	423.1	455.3	482.9	455.3
85°	195.5	207.0	250.7	273.7	276.0	285.2	278.3	262.2	262.2	239.2	269.1
87.5°	89.7	92.0	112.7	133.4	138.0	124.2	121.9	117.3	94.3	89.7	96.6
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):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	5555.9	5555.9	5555.9	5555.9	5555.9	5555.9	5555.9	5555.9
2.5°	5553.6	5558.2	5560.5	5567.4	5569.7	5569.7	5572.0	5576.6
5°	5597.3	5604.2	5606.5	5615.7	5618.0	5615.7	5620.3	5622.6
7.5°	5675.5	5687.0	5691.6	5700.8	5693.9	5703.1	5705.4	5705.4
10°	5790.5	5802.0	5804.3	5813.5	5808.9	5813.5	5813.5	5808.9
12.5°	5942.3	5944.6	5937.7	5944.6	5935.4	5940.0	5933.1	5928.5
15°	6110.1	6103.2	6087.1	6087.1	6073.3	6075.6	6073.3	6071.0
17.5°	6273.4	6259.6	6248.1	6243.5	6232.0	6229.7	6222.8	6222.8
20°	6452.8	6445.9	6439.0	6429.8	6418.3	6406.8	6404.5	6409.1
22.5°	6668.9	6666.6	6666.6	6662.0	6645.9	6634.4	6627.5	6627.5
25°	6958.7	6938.0	6938.0	6935.7	6928.8	6921.9	6908.1	6915.0
27.5°	7285.2	7273.7	7282.9	7280.6	7273.7	7273.7	7264.5	7264.5
30°	7687.7	7683.1	7696.9	7685.4	7662.4	7660.1	7650.9	7639.4
32.5°	8152.2	8147.6	8168.3	8154.5	8117.7	8097.0	8078.6	8069.4
35°	8669.6	8671.9	8697.2	8688.0	8646.6	8632.8	8600.6	8596.0
37.5°	9235.3	9272.1	9315.8	9325.0	9290.5	9281.3	9246.8	9228.4
40°	9899.9	9948.2	10014.9	10031.0	9994.2	9987.3	9939.0	9913.7
42.5°	10608.2	10691.0	10773.8	10787.6	10750.8	10714.0	10668.0	10649.6
45°	11399.3	11498.2	11606.3	11633.9	11578.7	11535.0	11475.2	11475.2
47.5°	12286.9	12411.1	12533.0	12608.9	12558.3	12512.3	12441.0	12395.0
50°	13335.6	13505.8	13664.4	13742.6	13662.1	13574.7	13450.6	13409.2
52.5°	14651.0	14834.9	14972.9	14931.5	14807.3	14685.5	14549.8	14494.6
55°	16329.7	16391.8	16391.8	16235.4	15987.1	15782.4	15568.5	15497.2
57.5°	18429.3	18190.1	17822.2	17355.3	16768.9	16258.4	15913.5	15750.2
60°	20896.8	19747.0	18447.7	17171.4	16122.7	15258.1	14745.3	14510.7
62.5°	22541.0	19533.1	16929.9	14880.9	13372.4	12330.6	11622.4	11346.4
65°	21067.0	16290.6	12804.4	10353.0	8708.7	7648.6	6947.2	6689.6
67.5°	15430.5	10208.1	6818.4	4886.7	3580.5	2856.1	2568.7	2449.1
70°	6926.5	3594.3	2203.1	1720.1	1483.3	1361.4	1308.5	1290.1
72.5°	2088.1	1510.9	1274.0	1149.8	1055.5	995.7	952.0	947.4
75°	1260.2	1048.6	931.4	857.8	798.0	749.7	726.7	719.8
77.5°	880.8	770.4	715.2	662.3	616.3	579.5	558.8	542.7
80°	618.6	565.7	540.4	510.5	480.6	446.1	416.2	402.4
82.5°	413.9	402.4	402.4	384.0	358.7	326.5	266.8	253.0
85°	266.8	264.5	269.1	262.2	243.8	209.3	172.5	163.3
87.5°	124.2	126.5	140.3	138.0	133.4	110.4	87.4	82.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)