

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: P299138

Luminaire Tested: **GLNA-AF-08-LED-E1-SL2-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P299138
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24286)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLNA-AF-08-LED-E1-SL2-7030
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K CCT 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND Type V
Narrow OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 45047.6 lumens
Efficiency: N/A
Efficacy: 101.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B4 - U0 - G5

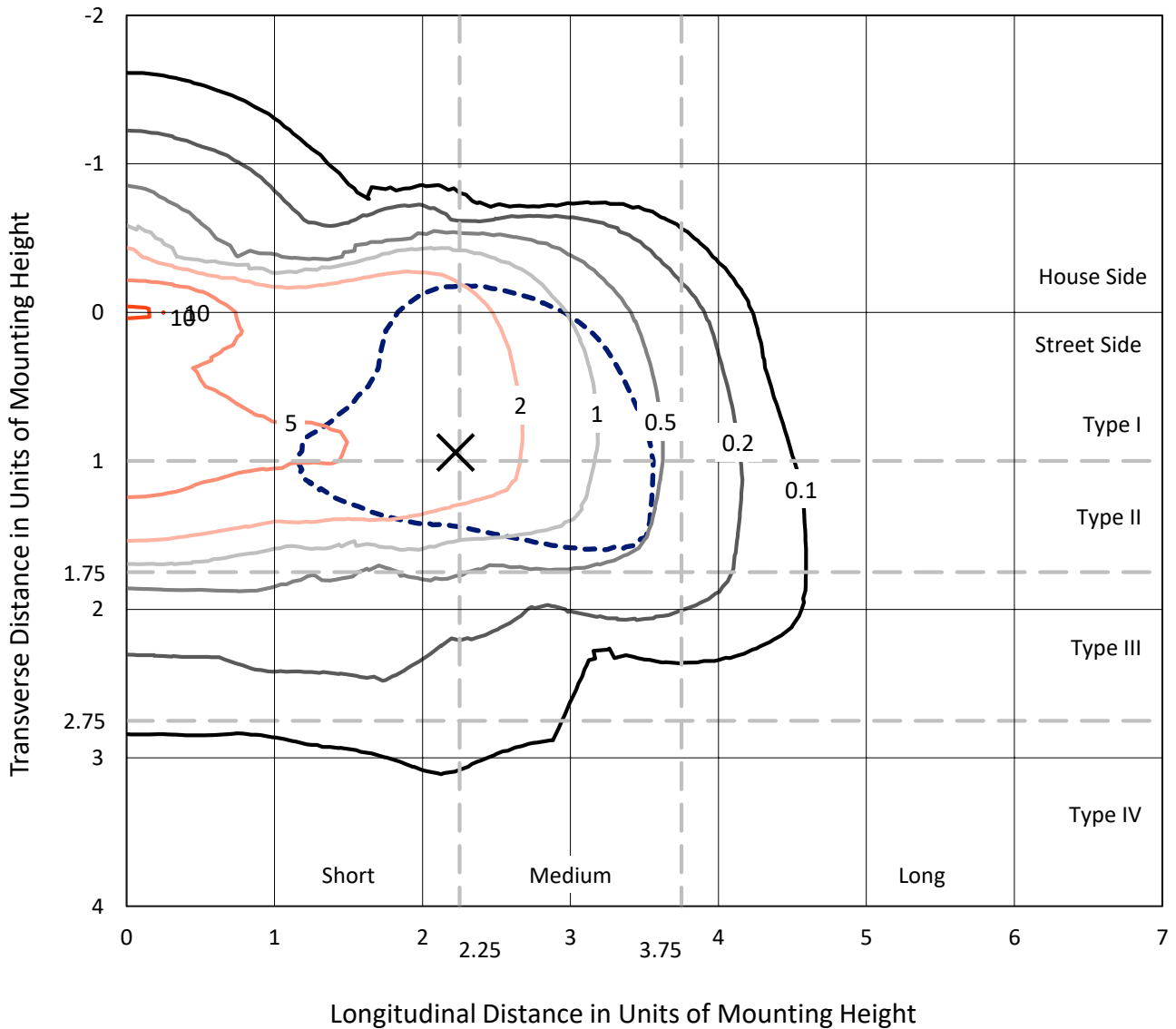
Input Watts (W): 445
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

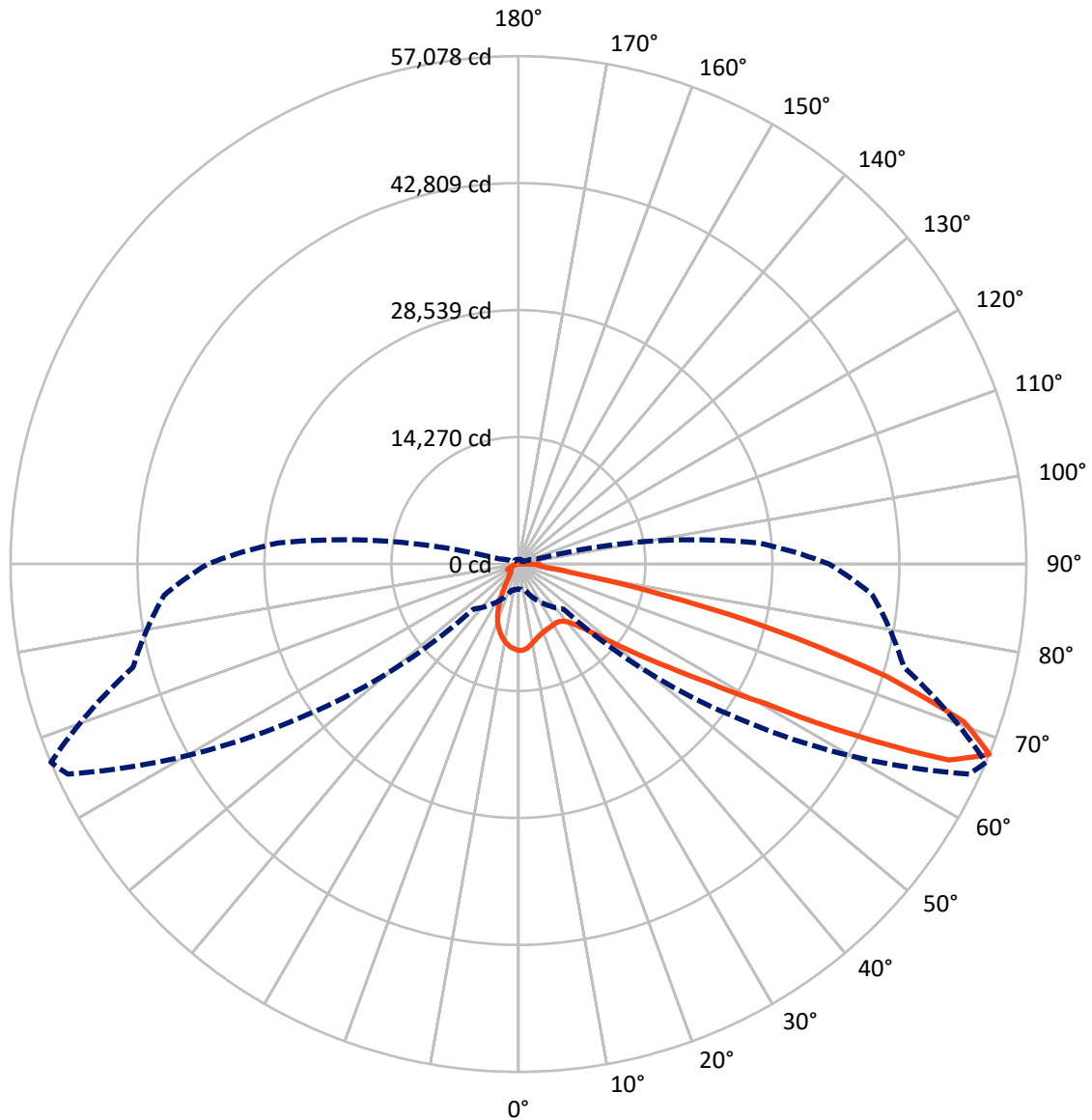
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 10.8 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7463.9	0.0	7463.9
	% Fixture	16.6	0.0	16.6
Street Side	Lumens	37583.7	0.0	37583.7
	% Fixture	83.4	0.0	83.4
Total	Lumens	45047.6	0.0	45047.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	829.0	1.8
10°-20°	1918.1	4.3
20°-30°	2600.1	5.8
30°-40°	3696.2	8.2
40°-50°	6183.9	13.7
50°-60°	9783.0	21.7
60°-70°	12462.5	27.7
70°-80°	6527.8	14.5
80°-90°	1047.0	2.3
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°	45047.6	100.0
0°-180°	45047.6	100.0

Coefficient of Utilization



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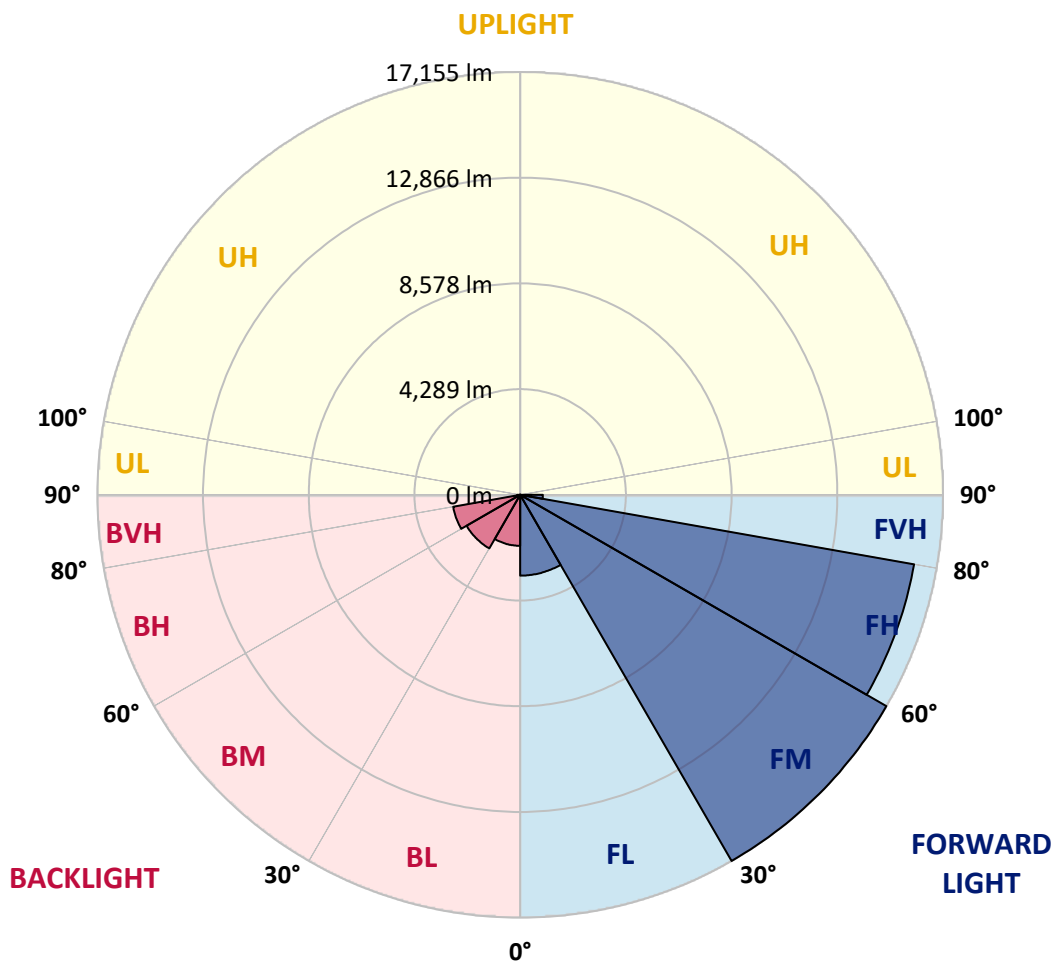
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3278.4	7.3			
FM	(30°-60°)	17155.1	38.1			
FH	(60°-80°)	16229.7	36.0			G5
FVH	(80°-90°)	920.6	2.0			G5
BL	(0°-30°)	2068.8	4.6	B3/2500		
BM	(30°-60°)	2508.1	5.6	B3/5000		
BH	(60°-80°)	2760.6	6.1	B4/5000		G4/5000
BVH	(80°-90°)	126.4	0.3			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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	9716.7	9716.7	9716.7	9716.7	9716.7	9716.7	9716.7	9716.7	9716.7	9716.7	9716.7
2.5°	9316.8	9332.4	9381.2	9412.3	9552.3	9612.3	9654.5	9696.7	9703.3	9723.3	9703.3
5°	8339.4	8372.7	8463.8	8565.9	8837.0	9050.2	9274.6	9507.8	9550.1	9701.1	9743.3
7.5°	7581.8	7573.0	7648.5	7770.7	8048.3	8343.8	8737.0	9201.3	9292.4	9632.2	9796.6
10°	7028.7	7022.0	7102.0	7228.6	7493.0	7772.9	8217.2	8852.5	8981.4	9523.4	9847.7
12.5°	6619.9	6622.2	6702.1	6842.1	7110.9	7393.0	7844.0	8514.9	8679.2	9396.8	9901.0
15°	6348.9	6366.7	6431.1	6580.0	6842.1	7124.2	7566.3	8261.6	8446.0	9296.8	9961.0
17.5°	6257.9	6286.7	6308.9	6417.8	6642.2	6924.3	7357.5	8075.0	8270.5	9227.9	10014.3
20°	6342.3	6375.6	6333.4	6371.1	6513.3	6762.1	7193.1	7928.4	8128.3	9150.2	10021.0
22.5°	6704.4	6735.5	6611.1	6502.2	6493.3	6644.4	7057.6	7812.9	8019.5	9092.4	10023.2
25°	7341.9	7361.9	7153.1	6899.9	6653.3	6602.2	6962.1	7732.9	7952.8	9041.3	9981.0
27.5°	8123.9	8139.4	7899.5	7526.3	7030.9	6702.1	6928.7	7686.2	7915.1	8996.9	9909.9
30°	9074.7	9148.0	8825.9	8354.9	7632.9	6997.6	6995.4	7661.8	7872.9	8921.4	9770.0
32.5°	10047.7	10078.8	9856.6	9379.0	8443.8	7517.4	7182.0	7679.6	7861.7	8830.3	9592.3
35°	11034.0	11074.0	10929.6	10545.3	9552.3	8279.4	7546.3	7784.0	7930.6	8799.2	9467.9
37.5°	12311.3	12364.6	12164.7	11720.4	10900.7	9312.4	8152.8	8046.1	8141.6	8888.1	9430.1
40°	14330.6	14306.2	13722.0	13060.0	12375.8	10634.1	9019.1	8490.4	8546.0	9174.6	9545.6
42.5°	16680.9	16621.0	15614.6	14575.0	13997.4	12233.6	10165.4	9261.3	9250.2	9738.9	9952.1
45°	18555.9	18507.0	17600.6	16318.8	15856.8	14055.2	11647.1	10409.8	10327.6	10634.1	10703.0
47.5°	19571.1	19573.3	19051.2	18004.9	17993.8	16369.9	13550.9	12071.4	11929.2	12073.6	12000.3
50°	19215.6	19262.3	19206.7	18873.5	19944.3	19404.4	16036.7	14388.4	14101.8	14244.0	13961.9
52.5°	17496.2	17556.2	17885.0	18395.9	20764.0	23072.1	19688.8	17267.4	16934.2	16883.1	16569.9
55°	14448.4	14521.7	15192.6	16581.0	20082.0	25535.7	25451.3	20937.3	20406.3	19924.3	19791.0
57.5°	9958.8	10081.0	11160.6	13222.1	17876.1	26279.9	32313.3	26168.8	25089.2	23405.3	23436.4
60°	5613.6	5755.8	7028.7	8901.4	13424.3	25471.3	37533.8	34092.7	31813.5	27481.7	27712.7
62.5°	3569.9	3723.2	4689.5	6184.5	8055.0	21117.2	39673.0	45109.0	42214.4	32506.6	32733.2
65°	2890.1	2956.8	3412.2	5104.9	5849.1	12722.3	38049.2	54183.6	53104.0	38884.4	37827.0
67.5°	2821.3	2843.5	3078.9	4285.2	5609.2	7150.9	30349.6	55880.8	57078.2	44840.2	39948.5
70°	2787.9	2865.7	3469.9	4089.7	5371.5	6031.3	18238.2	51229.1	53119.5	46397.4	37125.0
72.5°	1352.9	1348.4	1746.1	3698.7	6051.3	6255.6	9370.1	41450.2	43347.3	40197.3	30507.3
75°	1090.7	997.4	953.0	1355.1	5818.0	6460.0	5971.3	28521.3	29894.2	26950.7	18753.6
77.5°	1035.2	924.1	846.4	848.6	2459.2	6851.0	5058.3	15785.7	16185.6	12173.6	5138.2
80°	857.5	755.3	699.8	788.6	1190.7	6524.4	5469.2	7144.2	6555.5	2990.1	1710.5
82.5°	595.4	542.0	526.5	662.0	953.0	4649.5	6360.0	3838.7	3218.9	1497.3	1055.2
85°	379.9	324.3	359.9	482.1	742.0	2145.9	6551.1	2992.3	2379.2	950.8	595.4
87.5°	175.5	142.2	177.7	266.6	484.3	739.7	6233.4	3361.1	2450.3	502.0	375.4
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°	9716.7	9716.7	9716.7	9716.7	9716.7	9716.7	9716.7	9716.7	9716.7	9716.7	9716.7
2.5°	9721.1	9678.9	9645.6	9583.4	9514.5	9447.9	9387.9	9312.4	9290.1	9270.2	9301.3
5°	9752.2	9710.0	9587.8	9396.8	9185.7	8988.0	8790.3	8621.5	8517.1	8459.3	8492.6
7.5°	9798.9	9738.9	9485.6	9134.6	8754.8	8408.2	8050.6	7764.0	7553.0	7453.0	7481.9
10°	9841.1	9725.5	9312.4	8785.9	8230.5	7715.1	7150.9	6684.4	6337.8	6155.7	6200.1
12.5°	9858.8	9674.5	9070.2	8350.5	7588.5	6833.2	6002.4	5304.8	4807.2	4625.1	4587.3
15°	9876.6	9616.7	8803.6	7855.1	6813.2	5744.7	4580.6	3745.4	3332.2	3241.1	3221.1
17.5°	9881.1	9516.7	8501.5	7317.5	5904.6	4449.6	3132.3	2601.3	2603.6	2750.2	2767.9
20°	9834.4	9367.9	8135.0	6648.8	4816.1	3076.7	2150.4	2059.3	2394.7	2761.3	2805.7
22.5°	9727.8	9170.2	7719.6	5869.1	3569.9	2026.0	1663.9	1763.8	2197.0	2645.8	2696.9
25°	9592.3	8930.3	7228.6	4965.0	2363.6	1448.4	1395.1	1517.3	1810.5	2110.4	2139.3
27.5°	9407.9	8645.9	6677.7	3929.8	1535.0	1192.9	1228.5	1310.7	1430.6	1563.9	1577.2
30°	9170.2	8306.0	6089.0	2865.7	1159.6	1073.0	1124.1	1168.5	1219.6	1295.1	1301.8
32.5°	8896.9	7979.5	5484.8	1979.3	1028.5	1010.8	1050.8	1073.0	1113.0	1159.6	1164.0
35°	8668.1	7668.5	4858.3	1399.5	973.0	964.1	990.8	999.7	1037.4	1088.5	1093.0
37.5°	8537.1	7415.2	4211.9	1128.5	935.2	921.9	937.5	937.5	990.8	1066.3	1077.4
40°	8546.0	7275.3	3565.4	1019.6	904.1	886.4	888.6	888.6	957.4	1039.6	1046.3
42.5°	8788.1	7310.8	2992.3	977.4	879.7	859.7	848.6	855.3	913.0	966.3	970.8
45°	9356.8	7561.8	2454.7	950.8	855.3	848.6	824.2	821.9	844.2	868.6	868.6
47.5°	10289.8	8057.2	2090.4	933.0	835.3	833.0	804.2	775.3	773.1	782.0	782.0
50°	11807.1	8910.3	1846.0	913.0	821.9	804.2	770.8	726.4	710.9	717.5	717.5
52.5°	14081.8	10432.0	1752.7	886.4	793.1	764.2	726.4	682.0	668.7	670.9	670.9
55°	17065.3	12768.9	1739.4	855.3	762.0	715.3	684.2	650.9	635.3	639.8	639.8
57.5°	20710.7	16001.2	1977.1	806.4	719.8	666.4	648.7	626.5	615.3	622.0	619.8
60°	25142.5	20230.8	2932.3	755.3	677.5	622.0	622.0	604.2	595.4	602.0	599.8
62.5°	30247.4	25089.2	4123.0	717.5	633.1	586.5	595.4	586.5	577.6	582.0	579.8
65°	34774.7	28254.7	3860.9	688.7	588.7	553.1	568.7	564.3	557.6	562.0	559.8
67.5°	34905.8	27081.8	2168.1	657.6	546.5	519.8	542.0	539.8	535.4	539.8	537.6
70°	31151.5	22867.7	1221.8	599.8	502.0	479.8	510.9	508.7	504.3	513.2	510.9
72.5°	24958.1	16594.3	893.0	528.7	457.6	437.6	473.2	470.9	470.9	484.3	477.6
75°	14361.7	8539.3	713.1	453.2	411.0	395.4	426.5	428.7	433.2	451.0	437.6
77.5°	4094.1	2661.3	582.0	384.3	353.2	346.5	377.6	382.1	384.3	404.3	386.5
80°	1521.7	1226.2	479.8	322.1	288.8	291.0	319.9	326.6	328.8	348.8	326.6
82.5°	970.8	808.6	388.8	248.8	226.6	224.4	259.9	268.8	268.8	271.0	257.7
85°	566.5	484.3	293.2	179.9	159.9	153.3	193.3	208.8	202.2	197.7	188.8
87.5°	379.9	333.2	179.9	100.0	86.6	82.2	113.3	124.4	120.0	113.3	106.6
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)