

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: P300446

Luminaire Tested: **GLNA-AF-06-LED-E1-AFL-7030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P300446
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24165)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLNA-AF-06-LED-E1-AFL-7030-600
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3000K CCT 600mA LIGHTSQUARE WITH 16 LEDS EACH AND Automotive Frontline OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23194.2 lumens
Efficiency: N/A
Efficacy: 120.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B3 - U0 - G2

Input Watts (W): 193
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

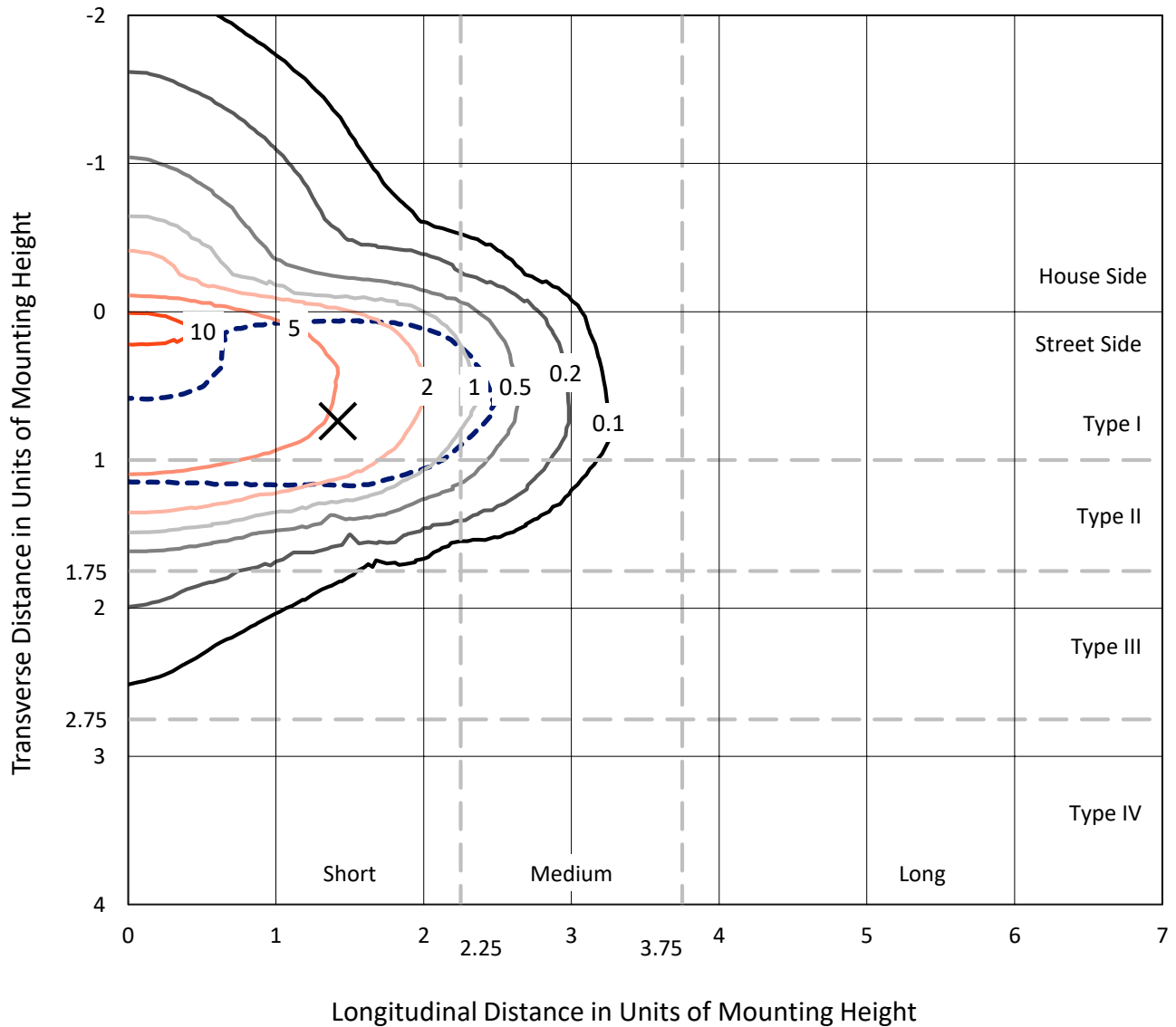


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Iso-Footcandle Lines of Horizontal Illumination

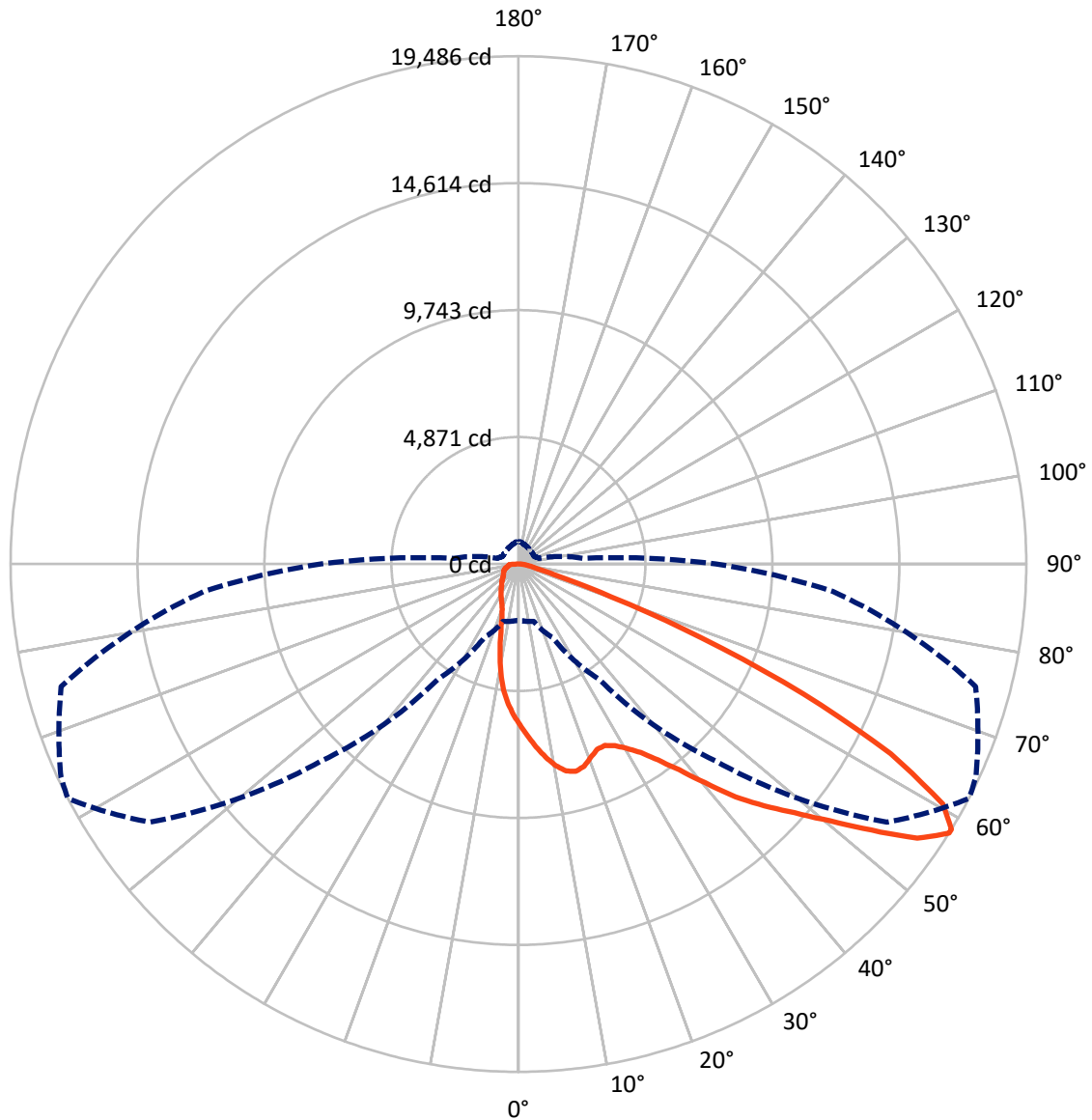
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 62.5-Deg Lateral - - - Horizontal Cone Through 58-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3537.2	0.0	3537.2
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	19657.0	0.0	19657.0
	% Fixture	84.7	0.0	84.7
Total	Lumens	23194.2	0.0	23194.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	551.0	2.4
10°-20°	1408.5	6.1
20°-30°	2276.9	9.8
30°-40°	3614.5	15.6
40°-50°	5288.8	22.8
50°-60°	5531.6	23.8
60°-70°	3268.1	14.1
70°-80°	920.6	4.0
80°-90°	334.2	1.4
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°	23194.2	100.0
0°-180°	23194.2	100.0



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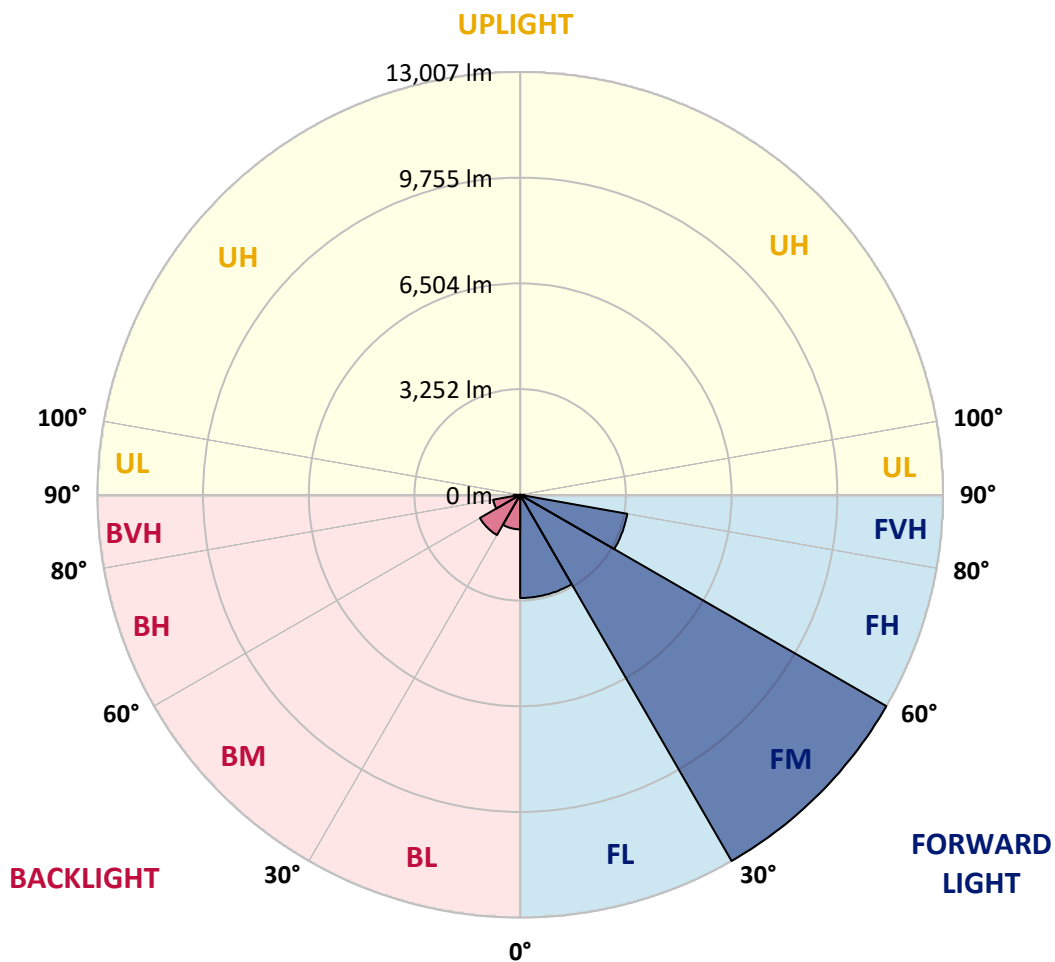
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3173.3	13.7			
FM (30°-60°)	13007.2	56.1			
FH (60°-80°)	3344.7	14.4			G2/5000
FVH (80°-90°)	131.9	0.6			G2/225
BL (0°-30°)	1063.1	4.6	B3/2500		
BM (30°-60°)	1427.7	6.2	B2/2500		
BH (60°-80°)	844.0	3.6	B2/1000		G2/1000
BVH (80°-90°)	202.4	0.9			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	62.5°	65°	75°	85°
0°	6161.1	6161.1	6161.1	6161.1	6161.1	6161.1	6161.1	6161.1	6161.1	6161.1	6161.1
2.5°	7040.3	6983.5	6947.4	6915.8	6874.3	6785.8	6666.8	6591.4	6553.2	6423.2	6269.2
5°	7730.6	7680.3	7643.2	7600.6	7526.3	7387.6	7195.4	7042.5	6967.1	6707.2	6399.2
7.5°	7568.9	7589.7	7654.1	7766.6	7862.7	7844.1	7672.7	7478.3	7378.9	7017.3	6549.9
10°	6594.7	6630.7	6742.1	7005.3	7431.3	7868.2	8001.4	7867.1	7766.6	7324.3	6705.0
12.5°	6399.2	6398.1	6406.8	6476.7	6730.1	7345.0	8012.3	8147.8	8087.7	7617.0	6863.3
15°	6478.9	6481.1	6474.5	6504.0	6582.7	6826.2	7678.1	8255.9	8298.5	7911.9	7027.2
17.5°	6688.6	6683.1	6658.0	6658.0	6686.4	6781.4	7284.9	8155.4	8352.0	8172.9	7171.3
20°	7040.3	7015.2	6948.5	6887.4	6856.8	6908.1	7123.3	7923.9	8259.2	8401.2	7290.4
22.5°	7466.2	7446.6	7338.5	7207.4	7101.4	7100.4	7206.3	7721.8	8098.6	8616.3	7390.9
25°	8016.7	7985.0	7824.5	7614.8	7429.1	7358.1	7387.6	7712.0	8011.2	8850.1	7480.4
27.5°	8663.3	8605.4	8415.4	8112.8	7839.8	7696.7	7654.1	7890.0	8091.0	9139.5	7604.9
30°	9447.5	9380.9	9137.3	8743.0	8357.5	8122.7	8032.0	8205.7	8355.3	9492.3	7804.8
32.5°	10339.8	10243.7	9961.9	9527.2	9020.4	8662.2	8514.7	8622.9	8741.9	9917.1	8054.9
35°	11572.9	11458.2	11050.8	10451.2	9878.9	9386.3	9150.4	9229.0	9344.8	10550.6	8416.5
37.5°	12413.9	12362.5	12091.7	11528.1	10905.6	10338.7	9973.9	10019.8	10085.3	11342.4	8879.5
40°	12406.2	12427.0	12432.4	12437.9	12014.1	11471.3	11079.2	11031.2	11018.1	12211.8	9406.0
42.5°	11784.8	11870.0	12145.2	12703.3	12961.1	12712.1	12352.7	12214.0	12145.2	13236.3	9964.1
45°	10833.5	10879.3	11394.9	12484.9	13446.0	13940.8	13668.8	13231.9	13107.4	14177.8	10427.2
47.5°	10343.1	10393.3	10717.7	11906.0	13440.5	14933.6	15090.9	14258.6	14035.8	14996.9	10826.9
50°	9175.5	9280.4	9688.9	10899.0	12950.1	15390.1	16577.3	15481.9	15021.0	15794.2	11227.8
52.5°	7031.5	7193.2	7650.8	9243.2	11706.1	15164.0	17766.7	16965.1	16314.1	16619.9	11571.8
55°	4435.4	4555.5	4940.0	6528.0	9364.5	13987.7	18217.8	18569.5	17990.6	17401.9	11870.0
57.5°	2411.6	2465.1	2609.3	3604.2	6091.2	11387.2	17560.3	19482.6	19242.3	18066.0	12095.0
58°	2158.2	2194.2	2283.8	3123.7	5402.0	10676.2	17268.7	19485.8	19365.7	18163.2	12112.4
60°	1601.2	1582.6	1502.9	1782.5	3006.8	7375.6	15505.9	18706.0	19058.8	18282.2	12027.2
62.5°	1406.7	1362.0	1199.2	1180.7	1462.4	3397.8	11864.5	16023.6	16856.9	17602.9	11509.5
65°	1321.6	1273.5	1063.8	996.1	1055.1	1437.3	6989.0	12017.4	13062.6	15543.0	10185.8
67.5°	1258.2	1196.0	977.5	884.7	889.0	950.2	2801.5	7568.9	8745.2	11801.2	7922.8
70°	1197.0	1129.3	904.3	797.3	772.2	751.4	1114.0	3788.8	4855.9	7454.2	5051.4
72.5°	1131.5	1064.9	839.9	728.5	679.3	610.5	727.4	1549.8	2164.7	3526.7	2291.4
75°	1036.5	976.4	775.5	667.3	597.4	505.7	549.4	809.3	971.0	1404.6	1104.2
77.5°	919.6	870.5	703.4	617.1	529.7	410.7	422.7	561.4	622.6	803.9	656.4
80°	660.8	678.3	625.8	554.8	471.8	333.1	324.4	409.6	442.3	516.6	427.0
82.5°	464.2	474.0	517.7	453.3	389.9	262.1	239.2	288.3	308.0	339.7	230.5
85°	320.0	309.1	355.0	315.6	281.8	174.8	163.8	195.5	207.5	210.8	119.0
87.5°	192.2	192.2	205.3	169.3	151.8	90.7	88.5	111.4	119.0	113.6	65.5
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°	6161.1	6161.1	6161.1	6161.1	6161.1	6161.1	6161.1	6161.1	6161.1	6161.1	6161.1
2.5°	6177.5	6099.9	5935.0	5802.8	5635.7	5462.1	5364.9	5261.1	5190.1	5138.8	5220.7
5°	6224.4	6066.0	5725.3	5402.0	5044.8	4673.5	4391.7	4129.6	3947.2	3833.6	3940.6
7.5°	6298.7	6055.1	5512.3	4959.7	4318.5	3700.4	3147.7	2801.5	2599.4	2500.0	2562.3
10°	6383.9	6037.7	5262.2	4360.0	3442.6	2663.9	2251.0	2111.2	2065.3	2046.8	2055.5
12.5°	6454.9	6000.5	4955.3	3634.8	2585.2	2103.6	1984.5	1981.2	1991.1	1993.3	1996.5
15°	6505.1	5945.9	4499.8	2879.0	2067.5	1916.8	1910.2	1929.9	1948.5	1956.1	1960.5
17.5°	6539.0	5833.4	3985.4	2276.1	1852.4	1826.1	1841.4	1866.6	1886.2	1891.7	1896.0
20°	6535.7	5668.5	3372.7	1898.2	1735.5	1735.5	1761.7	1781.4	1782.5	1775.9	1779.2
22.5°	6501.8	5442.4	2778.5	1697.3	1631.7	1650.3	1676.5	1658.0	1581.5	1531.3	1534.5
25°	6445.0	5172.6	2269.6	1569.5	1535.6	1568.4	1560.7	1420.9	1311.7	1262.6	1262.6
27.5°	6394.8	4853.7	1878.6	1458.1	1439.5	1479.9	1344.5	1217.8	1171.9	1149.0	1141.3
30°	6358.8	4509.7	1617.5	1351.0	1348.9	1319.4	1166.5	1131.5	1123.9	1105.3	1098.7
32.5°	6367.5	4161.3	1450.4	1257.1	1264.8	1129.3	1081.3	1088.9	1082.4	1062.7	1054.0
35°	6439.6	3830.3	1341.2	1171.9	1149.0	1020.1	1031.0	1045.2	1043.0	1015.7	1007.0
37.5°	6568.5	3516.9	1269.1	1100.9	1002.6	965.5	983.0	1004.8	999.4	980.8	974.2
40°	6703.9	3222.0	1210.2	1045.2	916.4	928.4	943.7	955.7	961.1	966.6	962.2
42.5°	6836.0	2914.0	1138.1	988.4	880.3	893.4	900.0	912.0	941.5	962.2	961.1
45°	6914.7	2624.5	1063.8	907.6	851.9	859.6	855.2	879.2	915.3	949.1	950.2
47.5°	7002.1	2399.6	1004.8	833.3	824.6	830.1	817.0	841.0	873.8	915.3	919.6
50°	7108.0	2265.2	957.9	774.4	787.5	787.5	784.2	806.0	851.9	900.0	908.7
52.5°	7228.1	2239.0	918.5	731.8	750.3	749.2	752.5	785.3	835.5	882.5	890.1
55°	7374.5	2310.0	875.9	700.1	714.3	718.7	729.6	766.7	809.3	862.8	866.1
57.5°	7544.9	2454.2	842.1	675.0	681.5	695.7	713.2	747.1	792.9	851.9	855.2
58°	7573.3	2484.7	836.6	672.8	675.0	691.4	711.0	743.8	789.7	854.1	857.4
60°	7574.4	2586.3	824.6	663.0	649.9	677.2	699.0	731.8	784.2	861.7	869.4
62.5°	7305.7	2585.2	815.9	648.8	623.6	657.5	682.6	720.8	778.7	880.3	895.6
65°	6433.0	2349.3	774.4	626.9	602.9	640.0	668.4	713.2	794.0	961.1	971.0
67.5°	5031.7	1925.5	696.8	596.3	575.6	622.6	659.7	712.1	810.4	979.7	986.3
70°	3326.8	1440.6	611.6	561.4	547.2	601.8	664.1	749.2	791.8	940.4	922.9
72.5°	1726.8	1011.4	542.8	517.7	514.4	583.2	727.4	744.9	773.3	884.7	862.8
75°	906.5	702.3	482.7	469.6	475.1	578.9	858.5	725.2	749.2	846.5	888.0
77.5°	554.8	566.8	431.4	426.0	436.9	565.8	857.4	700.1	714.3	778.7	824.6
80°	371.3	459.8	392.1	393.2	400.8	517.7	770.0	660.8	671.7	736.1	783.1
82.5°	234.8	272.0	356.1	374.6	364.8	427.0	654.2	601.8	617.1	842.1	890.1
85°	119.0	170.4	309.1	360.4	328.8	299.3	530.8	527.5	535.2	607.3	634.6
87.5°	54.6	93.9	241.4	314.6	247.9	186.8	385.5	391.0	421.6	431.4	431.4
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)