

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: P193715

Luminaire Tested: **GLEON-AF-07-LED-E1-SL3-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193715
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-07-LED-E1-SL3-8030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 1050mA 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: 34358 lumens
Efficiency: N/A
Efficacy: 87.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B3 - U0 - G5

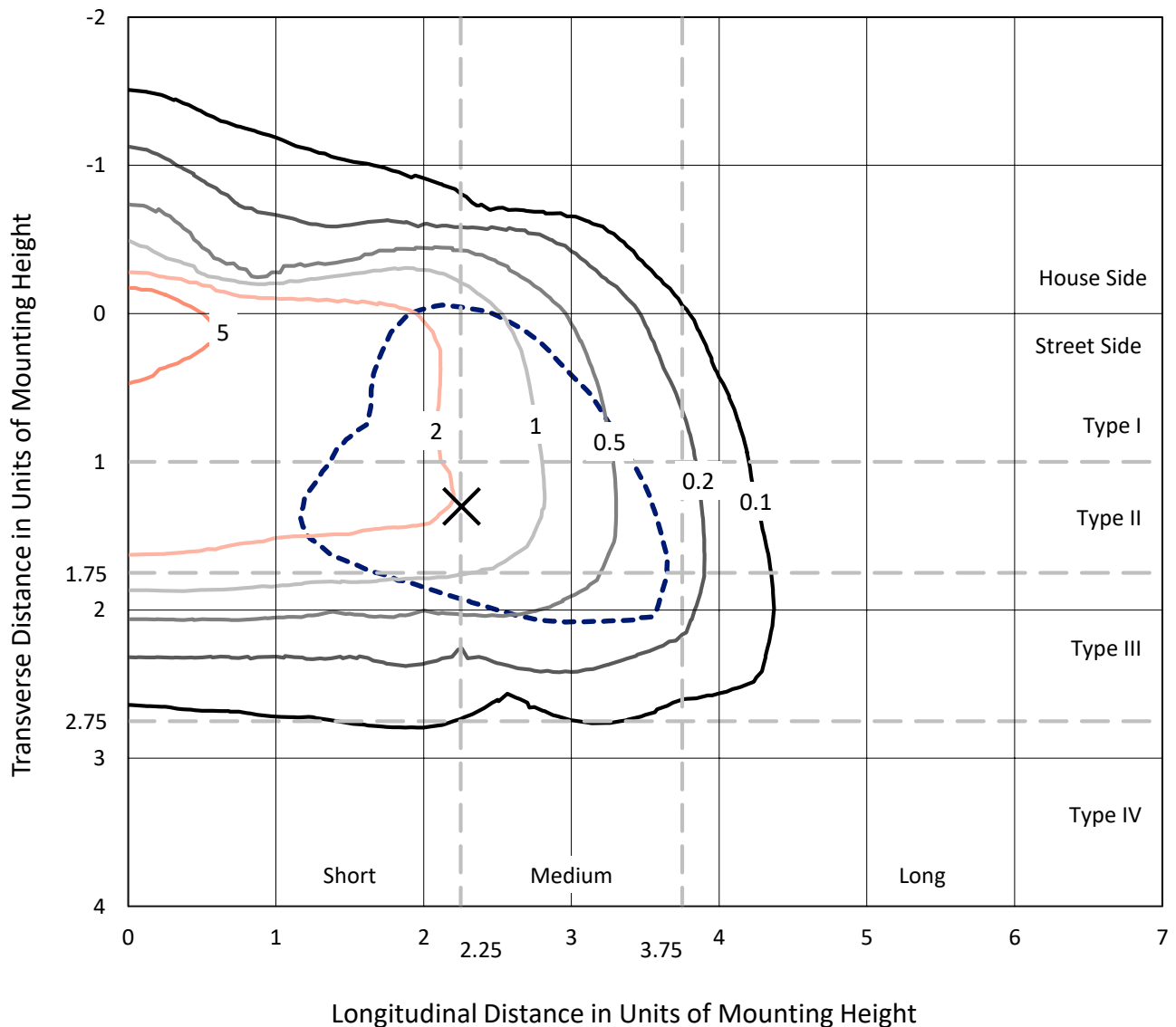
Input Watts (W): 391
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

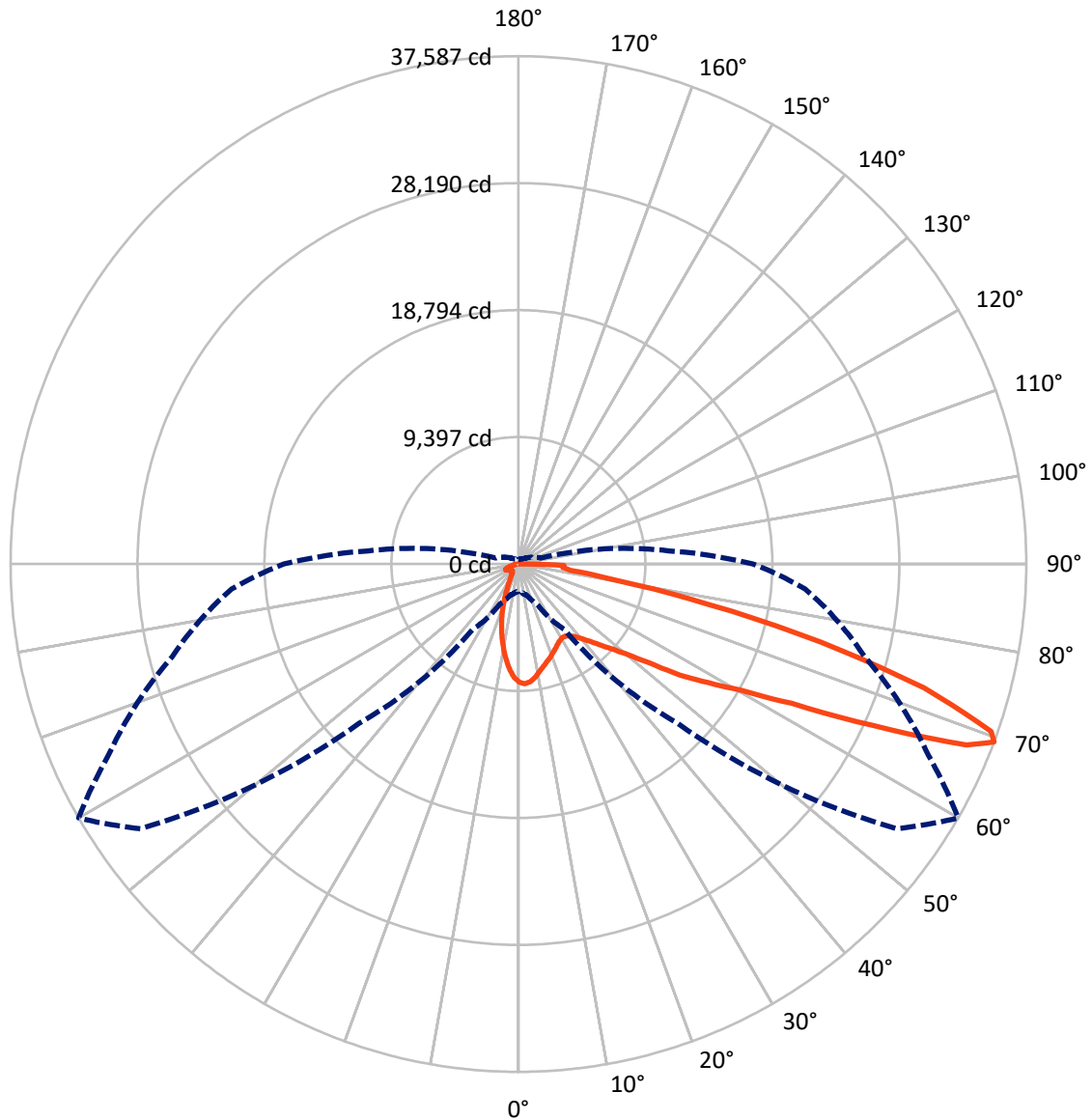
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.7 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	4888.1	0.0	4888.1
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	29469.9	0.0	29469.9
	% Fixture	85.8	0.0	85.8
Total	Lumens	34358.0	0.0	34358.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	740.3	2.2
10°-20°	1577.2	4.6
20°-30°	2009.6	5.8
30°-40°	2762.7	8.0
40°-50°	4482.7	13.0
50°-60°	7189.2	20.9
60°-70°	9568.2	27.8
70°-80°	5166.1	15.0
80°-90°	862.0	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°	34358.0	100.0
0°-180°	34358.0	100.0



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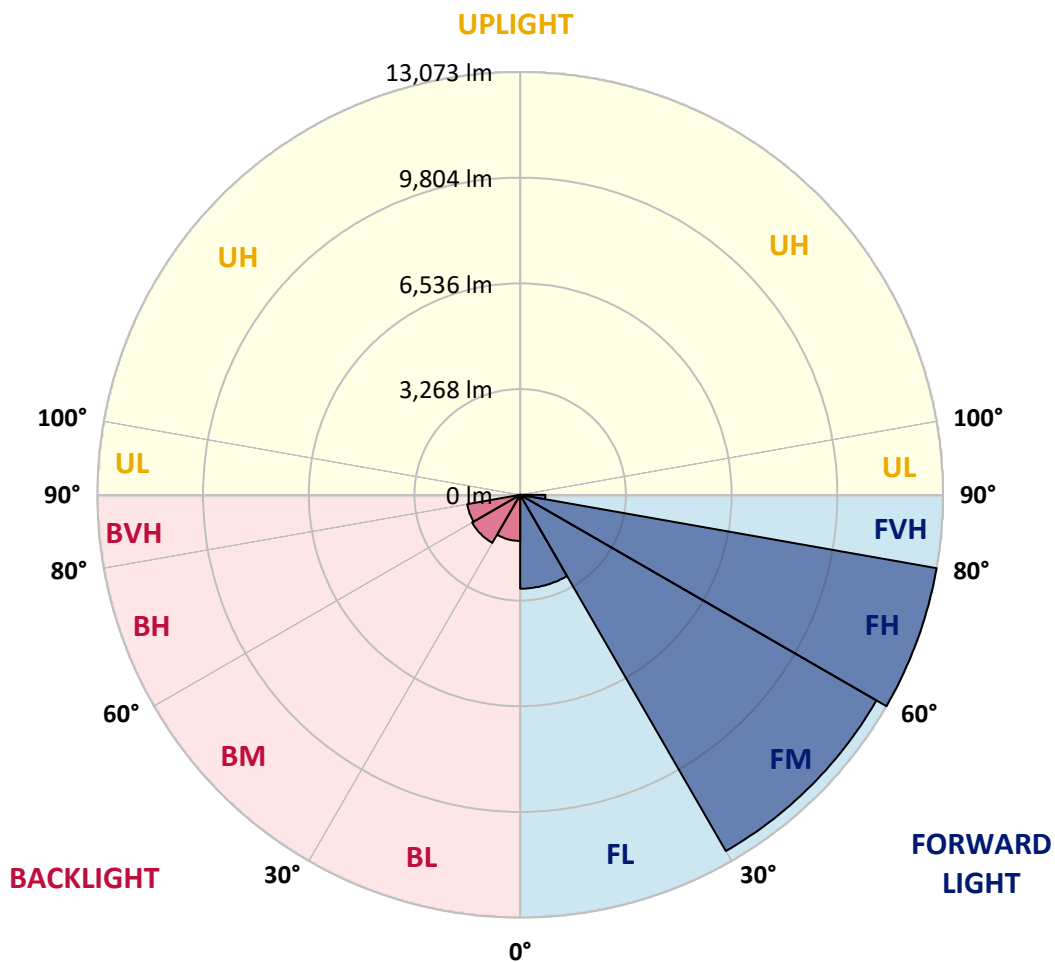
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2901.1	8.4			
FM	(30°-60°)	12717.3	37.0			
FH	(60°-80°)	13072.6	38.0			G5
FVH	(80°-90°)	779.0	2.3			G5
BL	(0°-30°)	1426.0	4.2	B3/2500		
BM	(30°-60°)	1717.3	5.0	B2/2500		
BH	(60°-30°)	1661.8	4.8	B3/2500		G3/2500
BVH	(80°-90°)	83.0	0.2			G1/100
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°	8754.9	8754.9	8754.9	8754.9	8754.9	8754.9	8754.9	8754.9	8754.9	8754.9	8754.9
2.5°	8934.2	8954.1	8945.8	8940.8	8955.8	8932.5	8884.4	8869.5	8846.2	8791.5	8698.5
5°	8598.9	8658.7	8655.4	8700.2	8774.9	8794.8	8773.2	8776.5	8733.4	8665.3	8511.0
7.5°	8019.7	8044.6	8057.9	8155.8	8291.9	8401.4	8494.4	8524.2	8504.3	8446.2	8247.1
10°	7422.2	7442.1	7473.6	7588.2	7760.8	7911.8	8087.7	8189.0	8232.1	8222.2	7999.8
12.5°	6909.3	6929.3	6970.8	7100.2	7306.0	7491.9	7747.5	7873.6	7976.5	8037.9	7799.0
15°	6449.6	6492.8	6532.6	6682.0	6912.7	7156.6	7445.4	7604.8	7764.1	7901.9	7621.4
17.5°	6091.1	6134.3	6157.5	6293.6	6539.2	6838.0	7176.6	7364.1	7563.3	7789.0	7445.4
20°	5883.7	5903.6	5893.6	5970.0	6190.7	6507.7	6909.3	7126.8	7367.4	7682.8	7269.5
22.5°	5825.6	5827.2	5790.7	5782.4	5925.1	6192.4	6623.9	6887.8	7183.2	7613.1	7118.5
25°	5966.6	5961.7	5862.1	5780.8	5795.7	5951.7	6348.4	6655.4	7028.8	7598.1	7002.3
27.5°	6280.3	6295.3	6147.5	5994.9	5843.8	5838.8	6139.2	6462.9	6902.7	7666.2	6952.5
30°	6720.1	6745.0	6587.4	6393.2	6109.4	5875.4	6057.9	6348.4	6824.7	7807.2	6944.2
32.5°	7201.5	7228.0	7108.5	6904.4	6532.6	6101.1	6114.4	6358.3	6821.4	8004.8	7000.6
35°	7714.3	7744.2	7682.8	7510.2	7096.9	6517.7	6330.1	6519.3	6929.3	8306.8	7151.7
37.5°	8286.9	8333.4	8350.0	8185.7	7744.2	7067.0	6683.6	6824.7	7173.2	8726.7	7428.8
40°	9111.8	9176.5	9171.5	8935.8	8486.1	7808.9	7229.7	7266.2	7553.3	9287.7	7872.0
42.5°	10691.8	10705.1	10291.8	9779.0	9302.6	8589.0	7873.6	7843.8	8077.8	9998.1	8524.2
45°	12701.7	12646.9	11727.5	10736.6	10155.7	9485.2	8711.8	8565.7	8743.3	10864.4	9340.8
47.5°	14369.7	14243.6	13081.8	11714.2	11058.6	10459.5	9696.0	9440.4	9538.3	11847.0	10396.4
50°	14949.0	14854.4	13891.7	12527.4	11913.4	11647.8	10907.6	10545.8	10572.3	13018.7	11632.9
52.5°	14824.5	14811.2	14168.9	13063.5	12713.3	12895.9	12623.7	12134.1	11875.2	14319.9	12967.3
55°	14530.7	14558.9	14326.6	13687.6	13627.8	14100.8	14866.0	14504.2	13699.2	15632.8	14346.5
57.5°	13510.0	13583.0	14094.2	14472.6	15100.0	15803.7	16671.7	16568.8	15662.6	17051.8	15986.3
60°	10884.3	11053.6	12424.5	14319.9	16615.3	18816.1	19204.4	18965.4	17687.5	18812.7	18152.2
62.5°	7626.3	7802.3	9432.1	12398.0	16366.3	22218.5	23732.1	22701.4	20595.3	21406.9	20955.4
65°	4082.9	4167.5	5412.3	8602.2	13817.0	22920.5	30349.4	28780.9	25199.3	24605.1	23353.7
67.5°	2252.2	2298.7	2775.0	4343.4	8849.5	20183.7	34565.0	35750.0	30953.5	26734.5	22917.2
69°	2036.5	2079.6	2391.6	3289.5	5921.8	16688.3	34153.4	37587.3	33476.2	26523.7	21304.0
70°	1991.6	2031.5	2312.0	3032.3	4793.2	13755.6	32774.2	37117.6	34077.0	25768.6	19896.5
72.5°	1792.5	1835.6	2107.8	2723.6	4096.2	6857.9	25961.1	31383.3	30938.5	22342.9	15091.7
75°	1671.3	1711.2	2172.6	2667.1	3921.9	4340.1	17114.9	23129.6	22742.9	15629.4	8137.5
77.5°	715.3	712.0	1007.4	2257.2	3980.0	4202.4	9196.4	14449.4	13183.0	6680.3	2336.9
80°	478.0	469.7	478.0	663.9	3649.7	4225.6	4818.1	7334.2	5540.1	1702.9	1151.8
82.5°	411.6	405.0	419.9	405.0	1283.0	4823.1	4096.2	3900.3	2634.0	967.6	570.9
85°	277.2	265.6	361.8	363.5	605.8	4285.4	4614.0	3294.5	2131.1	574.3	282.1
87.5°	132.8	129.5	210.8	257.3	355.2	1741.0	5176.6	3375.8	2149.3	293.8	134.4
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°	8754.9	8754.9	8754.9	8754.9	8754.9	8754.9	8754.9	8754.9	8754.9	8754.9	8754.9
2.5°	8670.3	8602.2	8535.9	8456.2	8373.2	8280.3	8233.8	8187.3	8175.7	8162.4	8116.0
5°	8431.3	8335.0	8169.1	7986.5	7794.0	7606.4	7463.7	7374.1	7306.0	7271.2	7209.8
7.5°	8122.6	7981.5	7691.1	7375.7	7052.1	6756.7	6501.1	6340.1	6187.4	6116.0	6034.7
10°	7828.8	7618.0	7166.6	6701.9	6237.2	5790.7	5370.8	5073.7	4809.8	4662.1	4557.5
12.5°	7576.6	7287.8	6662.1	6033.0	5395.7	4760.0	4131.0	3636.4	3223.1	3005.7	2894.5
15°	7330.9	6982.4	6182.4	5384.1	4565.8	3701.1	2874.6	2313.6	1971.7	1835.6	1789.2
17.5°	7108.5	6662.1	5701.1	4730.2	3709.4	2663.8	1931.9	1623.2	1492.1	1447.3	1432.3
20°	6867.9	6338.4	5201.5	4046.4	2816.5	1862.2	1508.7	1372.6	1319.5	1306.2	1299.5
22.5°	6635.5	6019.7	4723.5	3314.4	2023.2	1437.3	1296.2	1239.8	1231.5	1243.1	1243.1
25°	6438.0	5734.3	4207.4	2549.3	1485.4	1209.9	1160.1	1146.9	1178.4	1221.5	1229.8
27.5°	6290.3	5500.3	3658.0	1882.1	1183.4	1052.3	1050.6	1072.2	1150.2	1233.2	1249.8
30°	6189.0	5277.9	3070.5	1357.6	992.5	926.1	952.7	999.1	1113.7	1231.5	1263.0
32.5°	6137.6	5113.5	2458.0	1050.6	849.8	813.3	858.1	914.5	1027.4	1136.9	1178.4
35°	6177.4	4992.4	1880.4	876.3	750.2	722.0	768.4	823.2	889.6	936.1	967.6
37.5°	6326.8	4944.3	1419.0	785.0	682.1	655.6	692.1	723.6	750.2	763.5	778.4
40°	6648.8	4995.7	1136.9	738.6	644.0	610.8	625.7	637.3	653.9	667.2	673.8
42.5°	7123.5	5150.1	1019.1	720.3	624.0	575.9	572.6	577.6	599.2	624.0	629.0
45°	7787.3	5422.3	1010.8	731.9	614.1	547.7	532.8	539.4	572.6	610.8	617.4
47.5°	8635.4	5837.2	1077.1	766.8	622.4	532.8	507.9	516.2	557.7	609.1	617.4
50°	9662.8	6416.4	1188.3	818.2	658.9	536.1	499.6	504.6	547.7	604.1	612.4
52.5°	10876.0	7238.0	1309.5	868.0	697.1	557.7	506.2	494.6	534.4	584.2	594.2
55°	12225.4	8291.9	1434.0	912.8	717.0	584.2	519.5	481.3	509.5	551.0	559.3
57.5°	13881.8	9765.7	1649.7	956.0	730.3	602.5	532.8	468.0	478.0	507.9	514.5
60°	16124.0	11850.3	2029.8	1027.4	760.1	609.1	531.1	456.4	446.5	463.1	466.4
62.5°	18811.1	14114.1	2346.8	1117.0	809.9	614.1	521.1	448.1	419.9	419.9	423.2
65°	20406.1	14719.9	2170.9	1191.7	851.4	609.1	509.5	439.8	400.0	381.7	383.4
67.5°	19053.4	12945.7	1860.5	1206.6	849.8	585.9	491.3	424.9	380.1	351.9	350.2
69°	17358.8	11169.8	1721.1	1166.8	809.9	556.0	468.0	408.3	365.1	335.3	333.6
70°	15992.9	10086.0	1629.8	1123.6	766.8	534.4	449.8	393.3	353.5	325.3	322.0
72.5°	11627.9	6608.9	1392.5	965.9	632.3	448.1	388.4	345.2	315.3	298.7	295.4
75°	5810.6	3151.8	1130.3	783.4	484.6	358.5	318.7	288.8	273.9	270.5	268.9
77.5°	1908.7	1443.9	808.3	584.2	360.2	280.5	257.3	235.7	232.4	242.3	239.0
80°	1048.9	839.8	512.8	386.7	245.6	205.8	202.5	190.9	195.8	212.4	209.1
82.5°	534.4	436.5	317.0	232.4	166.0	147.7	161.0	154.4	161.0	175.9	174.3
85°	263.9	239.0	200.8	141.1	109.5	94.6	114.5	119.5	122.8	134.4	134.4
87.5°	152.7	141.1	106.2	66.4	54.8	49.8	66.4	64.7	76.3	83.0	81.3
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)