

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: P299916

Luminaire Tested: **GLNA-AF-07-LED-E1-SL3-7060-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P299916  
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-07-LED-E1-SL3-7060-800  
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 5700K 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: 33899.4 lumens  
Efficiency: N/A  
Efficacy: 114.9 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

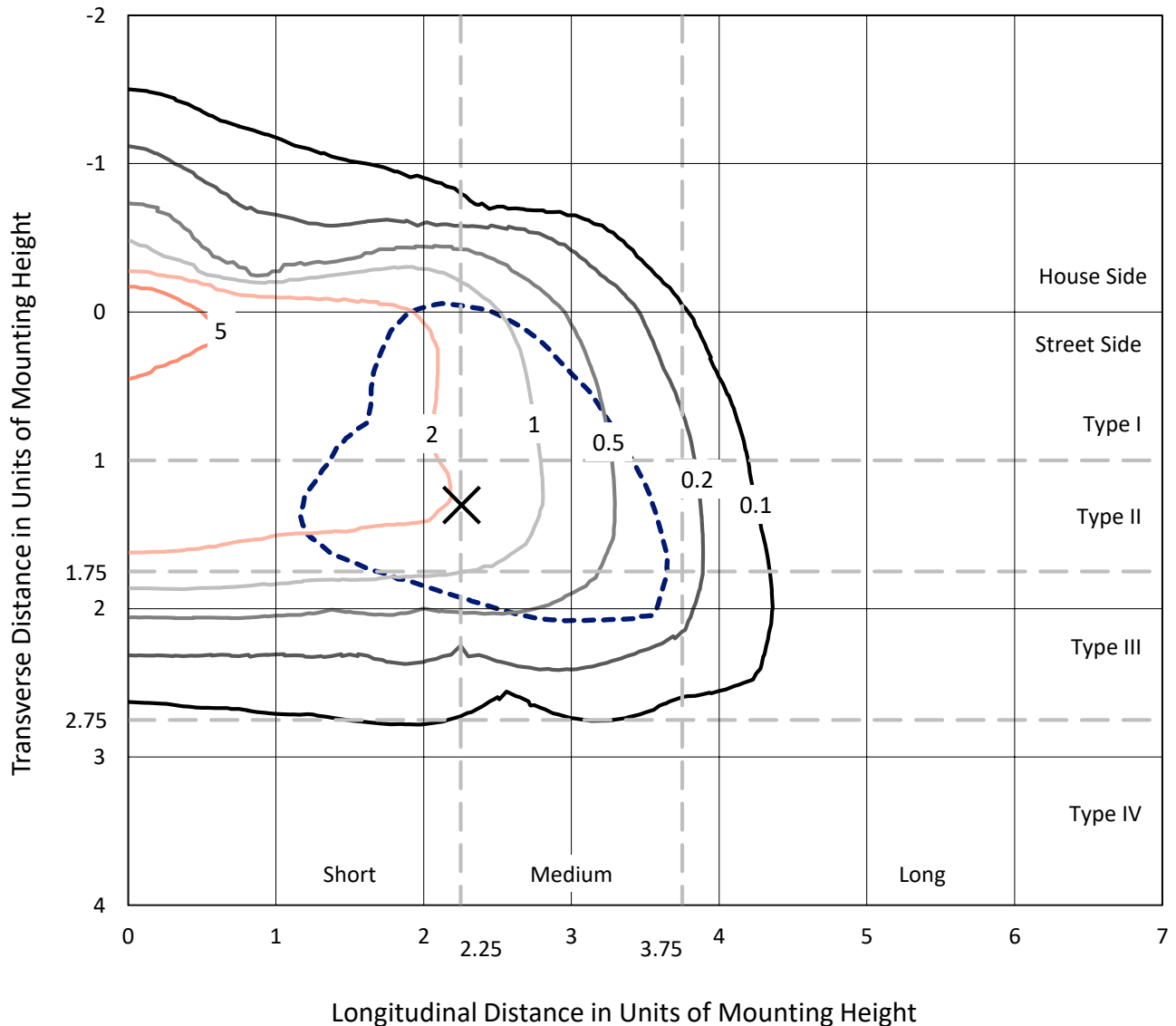
Input Watts (W): 295  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

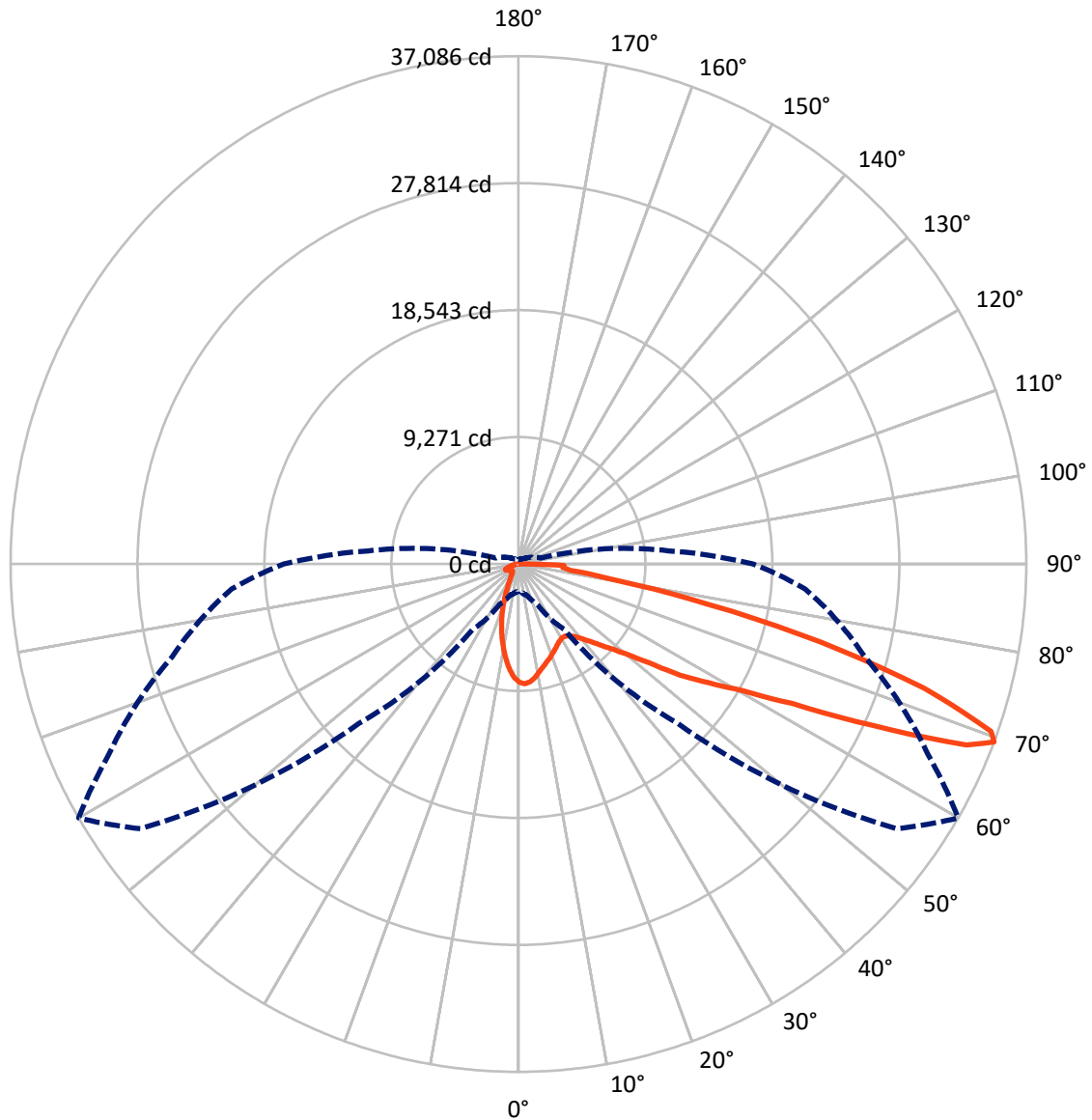
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.6 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
<b>House Side</b>	Lumens	4822.8	0.0	4822.8
	% Fixture	14.2	0.0	14.2
<b>Street Side</b>	Lumens	29076.6	0.0	29076.6
	% Fixture	85.8	0.0	85.8
<b>Total</b>	Lumens	33899.4	0.0	33899.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	730.4	2.2
10°-20°	1556.1	4.6
20°-30°	1982.8	5.8
30°-40°	2725.8	8.0
40°-50°	4422.9	13.0
50°-60°	7093.2	20.9
60°-70°	9440.5	27.8
70°-80°	5097.2	15.0
80°-90°	850.5	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°	33899.4	100.0
0°-180°	33899.4	100.0

**Coefficient of Utilization**



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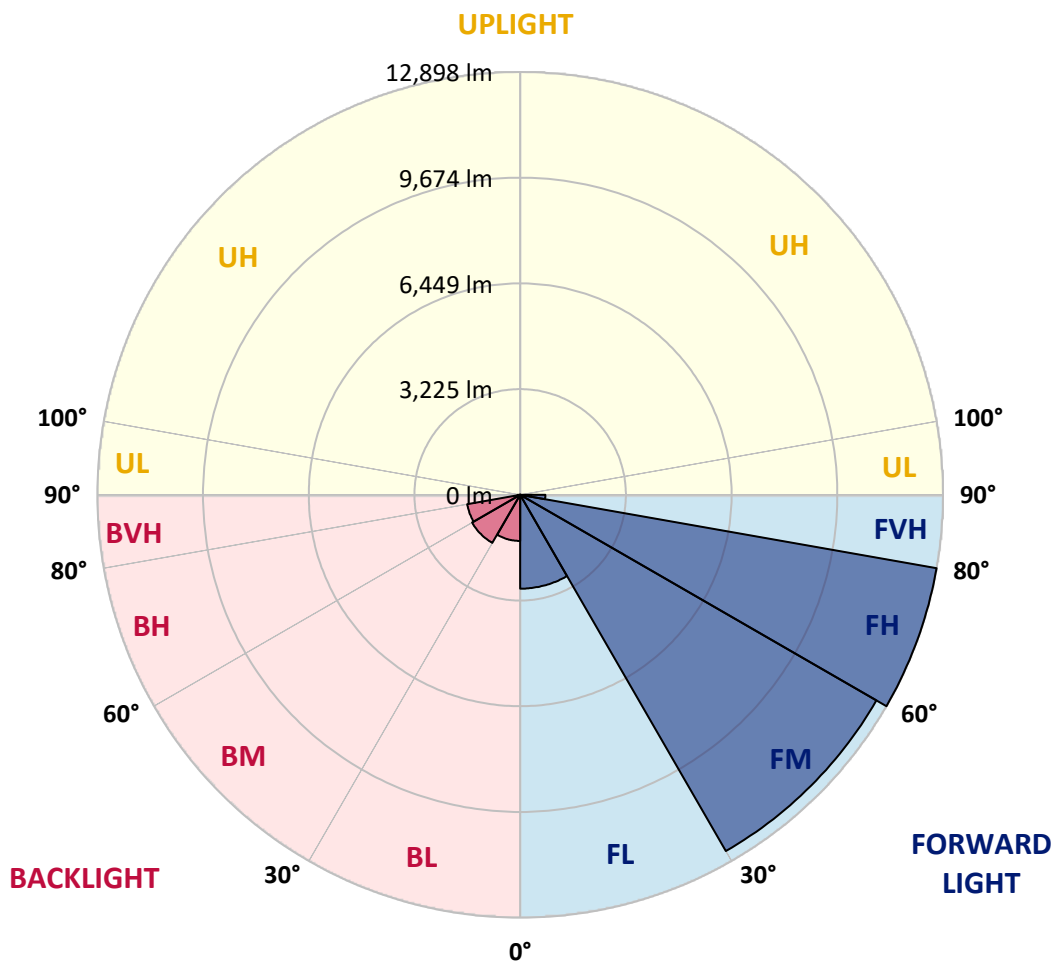
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2862.3	8.4			
FM	(30°-60°)	12547.6	37.0			
FH	(60°-80°)	12898.1	38.0			G5
FVH	(80°-90°)	768.6	2.3			G5
BL	(0°-30°)	1407.0	4.2	B3/2500		
BM	(30°-60°)	1694.4	5.0	B2/2500		
BH	(60°-80°)	1639.6	4.8	B3/2500		G3/2500
BVH	(80°-90°)	81.9	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°	8638.1	8638.1	8638.1	8638.1	8638.1	8638.1	8638.1	8638.1	8638.1	8638.1	8638.1
2.5°	8814.9	8834.6	8826.4	8821.5	8836.2	8813.3	8765.8	8751.1	8728.1	8674.1	8582.4
5°	8484.2	8543.1	8539.8	8584.0	8657.7	8677.4	8656.1	8659.4	8616.8	8549.7	8397.4
7.5°	7912.6	7937.2	7950.3	8046.9	8181.2	8289.3	8381.0	8410.5	8390.8	8333.5	8137.0
10°	7323.1	7342.8	7373.9	7486.9	7657.2	7806.2	7979.8	8079.7	8122.3	8112.4	7893.0
12.5°	6817.1	6836.8	6877.7	7005.4	7208.5	7391.9	7644.1	7768.5	7870.1	7930.7	7694.9
15°	6363.5	6406.1	6445.4	6592.8	6820.4	7061.1	7346.1	7503.3	7660.5	7796.4	7519.6
17.5°	6009.8	6052.4	6075.3	6209.6	6452.0	6746.7	7080.8	7265.8	7462.3	7685.0	7346.1
20°	5805.1	5824.8	5814.9	5890.3	6108.1	6420.8	6817.1	7031.6	7269.1	7580.2	7172.5
22.5°	5747.8	5749.4	5713.4	5705.2	5846.1	6109.7	6535.5	6795.8	7087.3	7511.4	7023.5
25°	5887.0	5882.1	5783.8	5703.6	5718.3	5872.3	6263.6	6566.6	6935.0	7496.7	6908.8
27.5°	6196.5	6211.2	6065.5	5914.8	5765.8	5760.9	6057.3	6376.6	6810.6	7563.9	6859.7
30°	6630.4	6655.0	6499.4	6307.8	6027.8	5796.9	5977.1	6263.6	6733.6	7703.0	6851.5
32.5°	7105.3	7131.5	7013.6	6812.2	6445.4	6019.6	6032.7	6273.5	6730.3	7897.9	6907.2
35°	7611.3	7640.8	7580.2	7409.9	7002.2	6430.7	6245.6	6432.3	6836.8	8195.9	7056.2
37.5°	8176.3	8222.1	8238.5	8076.4	7640.8	6972.7	6594.4	6733.6	7077.5	8610.2	7329.7
40°	8990.2	9054.0	9049.1	8816.6	8372.8	7704.7	7133.2	7169.2	7452.5	9163.7	7766.9
42.5°	10549.1	10562.2	10154.5	9648.5	9178.5	8474.3	7768.5	7739.1	7970.0	9864.6	8410.5
45°	12532.2	12478.1	11570.9	10593.3	10020.2	9358.6	8595.5	8451.4	8626.6	10719.4	9216.1
47.5°	14177.9	14053.5	12907.2	11557.8	10911.0	10319.8	9566.6	9314.4	9411.0	11688.8	10257.6
50°	14749.4	14656.1	13706.3	12360.2	11754.3	11492.3	10762.0	10405.0	10431.2	12845.0	11477.6
52.5°	14626.6	14613.5	13979.8	12889.2	12543.6	12723.8	12455.2	11972.1	11716.7	14128.8	12794.2
55°	14336.8	14364.6	14135.3	13504.9	13445.9	13912.6	14667.5	14310.6	13516.3	15424.1	14155.0
57.5°	13329.7	13401.7	13906.1	14279.4	14898.4	15592.8	16449.2	16347.7	15453.6	16824.2	15772.9
60°	10739.1	10906.1	12258.7	14128.8	16393.5	18564.9	18948.1	18712.3	17451.4	18561.6	17909.9
62.5°	7524.5	7698.1	9306.2	12232.5	16147.9	21921.9	23415.3	22398.4	20320.4	21121.1	20675.7
65°	4028.4	4111.9	5340.1	8487.4	13632.6	22614.6	29944.3	28396.8	24862.9	24276.7	23042.0
67.5°	2222.2	2268.0	2738.0	4285.5	8731.4	19914.3	34103.6	35272.9	30540.3	26377.7	22611.3
69°	2009.3	2051.9	2359.7	3245.6	5842.8	16465.6	33697.5	37085.6	33029.4	26169.7	21019.6
70°	1965.1	2004.4	2281.1	2991.8	4729.2	13572.0	32336.7	36622.2	33622.2	25424.6	19631.0
72.5°	1768.6	1811.1	2079.7	2687.2	4041.5	6766.4	25614.6	30964.5	30525.6	22044.7	14890.3
75°	1649.0	1688.3	2143.6	2631.5	3869.5	4282.2	16886.4	22820.9	22439.4	15420.8	8028.9
77.5°	705.8	702.5	994.0	2227.1	3926.8	4146.3	9073.7	14256.5	13007.1	6591.1	2305.7
80°	471.6	463.4	471.6	655.0	3601.0	4169.2	4753.8	7236.3	5466.1	1680.1	1136.5
82.5°	406.1	399.6	414.3	399.6	1265.8	4758.7	4041.5	3848.2	2598.8	954.7	563.3
85°	273.5	262.0	357.0	358.6	597.7	4228.2	4552.4	3250.5	2102.6	566.6	278.4
87.5°	131.0	127.7	208.0	253.8	350.4	1717.8	5107.5	3330.8	2120.6	289.8	132.6
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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8638.1	8638.1	8638.1	8638.1	8638.1	8638.1	8638.1	8638.1	8638.1	8638.1	8638.1
2.5°	8554.6	8487.4	8421.9	8343.3	8261.4	8169.7	8123.9	8078.0	8066.6	8053.5	8007.6
5°	8318.8	8223.8	8060.0	7879.9	7689.9	7504.9	7364.1	7275.6	7208.5	7174.1	7113.5
7.5°	8014.2	7875.0	7588.4	7277.3	6958.0	6666.5	6414.3	6255.4	6104.8	6034.4	5954.1
10°	7724.3	7516.4	7070.9	6612.4	6153.9	5713.4	5299.1	5006.0	4745.6	4599.9	4496.7
12.5°	7475.4	7190.5	6573.1	5952.5	5323.7	4696.5	4075.9	3587.9	3180.1	2965.6	2855.9
15°	7233.1	6889.2	6099.9	5312.2	4504.9	3651.7	2836.2	2282.7	1945.4	1811.1	1765.3
17.5°	7013.6	6573.1	5625.0	4667.0	3659.9	2628.3	1906.1	1601.5	1472.2	1427.9	1413.2
20°	6776.2	6253.8	5132.1	3992.4	2778.9	1837.3	1488.5	1354.3	1301.9	1288.8	1282.2
22.5°	6546.9	5939.4	4660.5	3270.2	1996.2	1418.1	1278.9	1223.3	1215.1	1226.5	1226.5
25°	6352.1	5657.7	4151.2	2515.3	1465.6	1193.8	1144.6	1131.5	1162.7	1205.2	1213.4
27.5°	6206.3	5426.8	3609.2	1857.0	1167.6	1038.2	1036.6	1057.9	1134.8	1216.7	1233.1
30°	6106.4	5207.4	3029.5	1339.5	979.3	913.8	940.0	985.8	1098.8	1215.1	1246.2
32.5°	6055.7	5045.3	2425.2	1036.6	838.4	802.4	846.6	902.3	1013.6	1121.7	1162.7
35°	6095.0	4925.8	1855.3	864.6	740.2	712.3	758.2	812.2	877.7	923.6	954.7
37.5°	6242.3	4878.3	1400.1	774.6	673.0	646.8	682.9	714.0	740.2	753.3	768.0
40°	6560.0	4929.0	1121.7	728.7	635.4	602.6	617.4	628.8	645.2	658.3	664.8
42.5°	7028.4	5081.3	1005.5	710.7	615.7	568.2	565.0	569.9	591.2	615.7	620.6
45°	7683.4	5349.9	997.3	722.2	605.9	540.4	525.7	532.2	565.0	602.6	609.2
47.5°	8520.2	5759.3	1062.8	756.5	614.1	525.7	501.1	509.3	550.2	601.0	609.2
50°	9533.8	6330.8	1172.5	807.3	650.1	528.9	492.9	497.8	540.4	596.1	604.3
52.5°	10730.9	7141.4	1292.0	856.4	687.8	550.2	499.5	488.0	527.3	576.4	586.2
55°	12062.2	8181.2	1414.8	900.7	707.4	576.4	512.6	474.9	502.7	543.7	551.9
57.5°	13696.5	9635.4	1627.7	943.2	720.5	594.4	525.7	461.8	471.6	501.1	507.6
60°	15908.8	11692.1	2002.7	1013.6	750.0	601.0	524.0	450.3	440.5	456.9	460.2
62.5°	18560.0	13925.7	2315.5	1102.1	799.1	605.9	514.2	442.1	414.3	414.3	417.6
65°	20133.7	14523.4	2141.9	1175.8	840.1	601.0	502.7	434.0	394.6	376.6	378.3
67.5°	18799.1	12772.9	1835.7	1190.5	838.4	578.1	484.7	419.2	375.0	347.2	345.5
69°	17127.2	11020.7	1698.1	1151.2	799.1	548.6	461.8	402.8	360.3	330.8	329.1
70°	15779.4	9951.4	1608.1	1108.6	756.5	527.3	443.8	388.1	348.8	321.0	317.7
72.5°	11472.7	6520.7	1373.9	953.1	623.9	442.1	383.2	340.6	311.1	294.8	291.5
75°	5733.1	3109.7	1115.2	772.9	478.2	353.7	314.4	284.9	270.2	266.9	265.3
77.5°	1883.2	1424.7	797.5	576.4	355.3	276.7	253.8	232.5	229.3	239.1	235.8
80°	1034.9	828.6	506.0	381.5	242.4	203.1	199.8	188.3	193.2	209.6	206.3
82.5°	527.3	430.7	312.8	229.3	163.8	145.7	158.8	152.3	158.8	173.6	171.9
85°	260.4	235.8	198.1	139.2	108.1	93.3	113.0	117.9	121.2	132.6	132.6
87.5°	150.7	139.2	104.8	65.5	54.0	49.1	65.5	63.9	75.3	81.9	80.2
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)