

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: P300308

Luminaire Tested: **GLNA-AF-03-LED-E1-AFL-7030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P300308  
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-03-LED-E1-AFL-7030  
Description: GALLEONAIRE AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 3000K CCT 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND Automotive Frontline OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

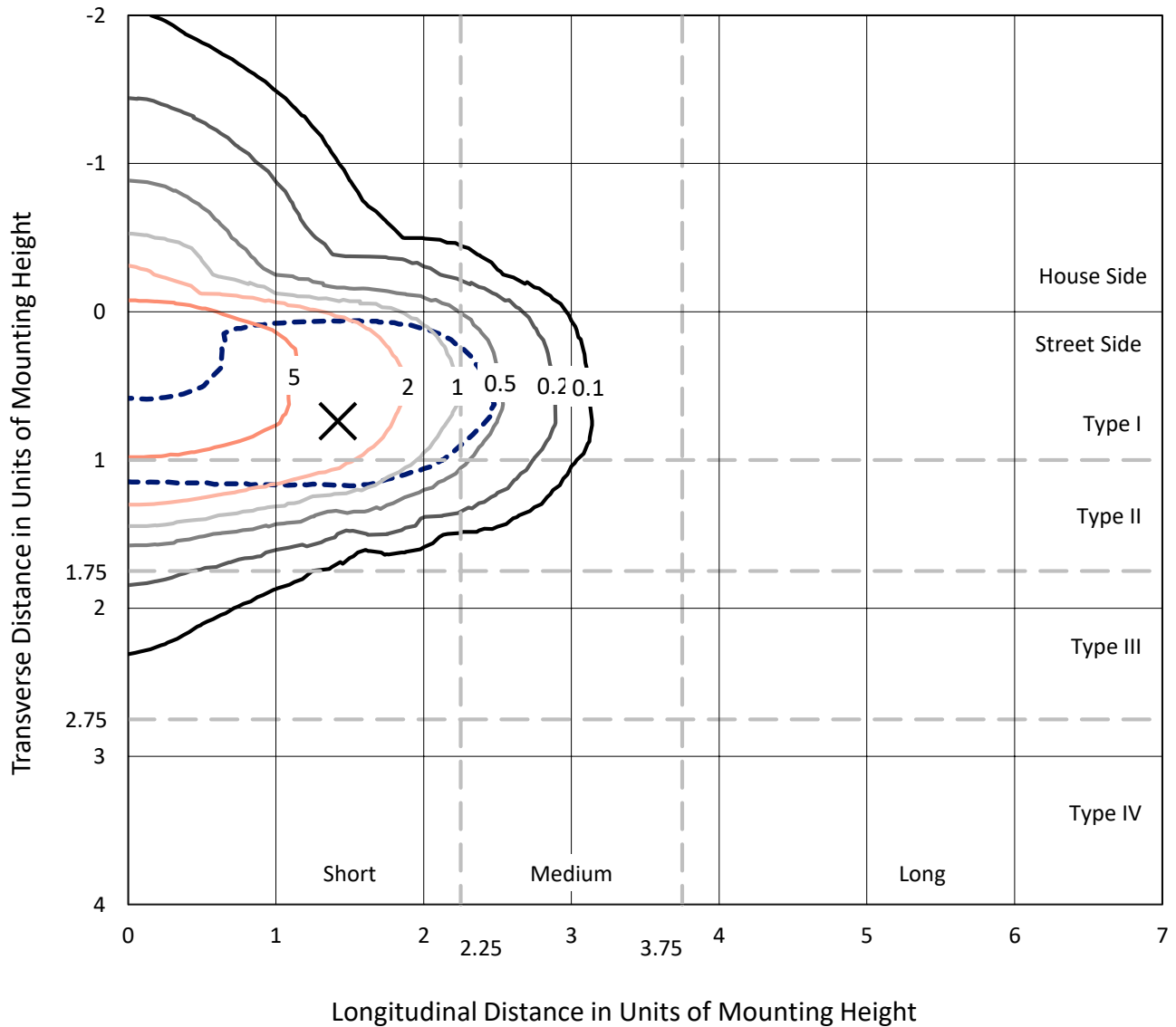
Lumens per Lamp: N/A  
Luminaire Lumens: 17971.7 lumens  
Efficiency: N/A  
Efficacy: 108.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short - Full Cutoff  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 166  
Input Voltage (V): NR  
Input Current (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

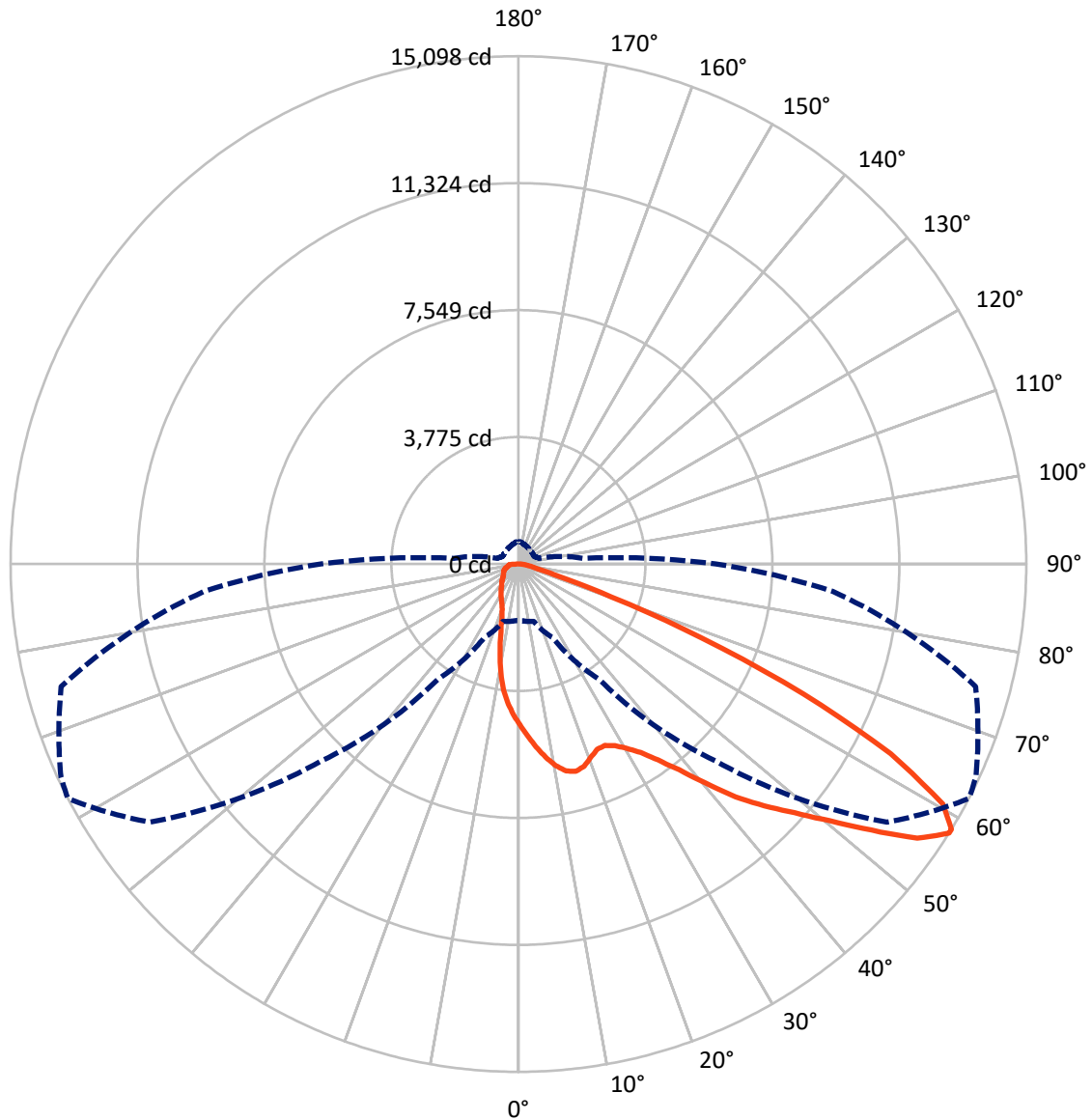
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.3 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
<b>House Side</b>	Lumens	2740.7	0.0	2740.7
	% Fixture	15.3	0.0	15.3
<b>Street Side</b>	Lumens	15230.9	0.0	15230.9
	% Fixture	84.7	0.0	84.7
<b>Total</b>	Lumens	17971.7	0.0	17971.7
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	426.9	2.4
10°-20°	1091.3	6.1
20°-30°	1764.2	9.8
30°-40°	2800.6	15.6
40°-50°	4097.9	22.8
50°-60°	4286.1	23.8
60°-70°	2532.2	14.1
70°-80°	713.3	4.0
80°-90°	259.0	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°	17971.7	100.0
0°-180°	17971.7	100.0



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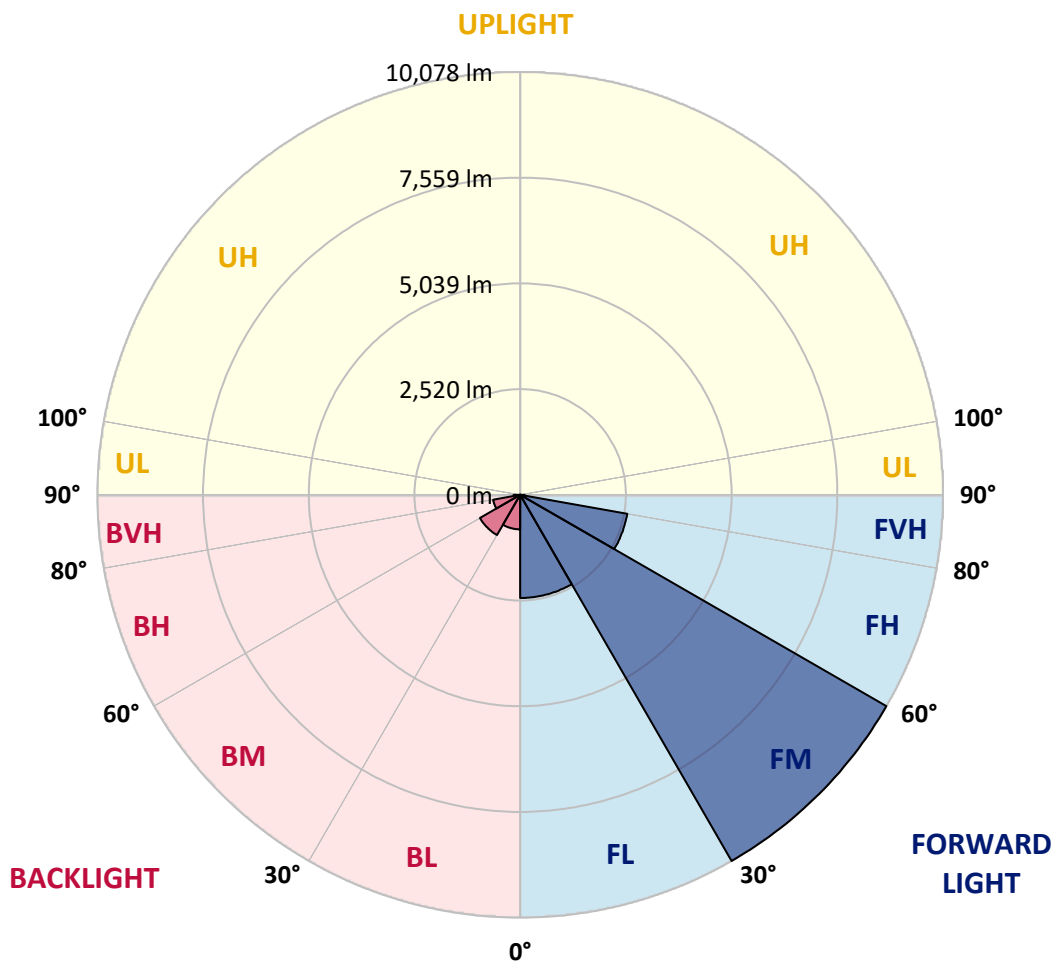
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2458.7	13.7			
FM	(30°-60°)	10078.4	56.1			
FH	(60°-80°)	2591.6	14.4			G2/5000
FVH	(80°-90°)	102.2	0.6			G2/225
BL	(0°-30°)	823.7	4.6	B2/1000		
BM	(30°-60°)	1106.2	6.2	B2/2500		
BH	(60°-80°)	654.0	3.6	B2/1000		G2/1000
BVH	(80°-90°)	156.8	0.9			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-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°	4773.8	4773.8	4773.8	4773.8	4773.8	4773.8	4773.8	4773.8	4773.8	4773.8	4773.8
2.5°	5455.1	5411.1	5383.1	5358.6	5326.4	5257.9	5165.6	5107.2	5077.6	4976.9	4857.6
5°	5989.9	5951.0	5922.2	5889.2	5831.6	5724.2	5575.2	5456.7	5398.4	5196.9	4958.3
7.5°	5864.7	5880.7	5930.7	6017.8	6092.3	6077.9	5945.0	5794.4	5717.4	5437.3	5075.1
10°	5109.8	5137.7	5224.0	5428.0	5758.0	6096.5	6199.8	6095.7	6017.8	5675.1	5195.3
12.5°	4958.3	4957.4	4964.2	5018.4	5214.7	5691.2	6208.2	6313.2	6266.6	5901.9	5318.0
15°	5020.1	5021.8	5016.7	5039.5	5100.5	5289.2	5949.3	6397.0	6430.0	6130.4	5444.9
17.5°	5182.6	5178.3	5158.9	5158.9	5180.9	5254.5	5644.6	6319.1	6471.4	6332.6	5556.6
20°	5455.1	5435.6	5384.0	5336.6	5312.9	5352.7	5519.4	6139.7	6399.5	6509.5	5648.9
22.5°	5785.1	5769.9	5686.1	5584.5	5502.4	5501.6	5583.7	5983.1	6275.1	6676.2	5726.7
25°	6211.6	6187.1	6062.7	5900.2	5756.3	5701.3	5724.2	5975.5	6207.4	6857.3	5796.1
27.5°	6712.6	6667.8	6520.5	6286.1	6074.5	5963.7	5930.7	6113.5	6269.2	7081.6	5892.6
30°	7320.2	7268.6	7079.9	6774.4	6475.7	6293.7	6223.5	6358.0	6474.0	7354.9	6047.4
32.5°	8011.6	7937.2	7718.8	7382.0	6989.3	6711.8	6597.5	6681.3	6773.5	7684.1	6241.2
35°	8967.1	8878.2	8562.6	8098.0	7654.5	7272.8	7090.1	7151.0	7240.7	8175.0	6521.4
37.5°	9618.7	9578.9	9369.1	8932.4	8450.0	8010.8	7728.1	7763.7	7814.5	8788.5	6880.2
40°	9612.8	9628.9	9633.1	9637.3	9309.0	8888.4	8584.6	8547.3	8537.2	9462.1	7288.1
42.5°	9131.3	9197.3	9410.5	9843.0	10042.7	9849.7	9571.3	9463.8	9410.5	10255.9	7720.5
45°	8394.2	8429.7	8829.1	9673.7	10418.4	10801.8	10591.1	10252.6	10156.1	10985.4	8079.3
47.5°	8014.2	8053.1	8304.4	9225.2	10414.2	11571.1	11692.9	11048.1	10875.4	11620.1	8389.1
50°	7109.5	7190.8	7507.3	8444.9	10034.2	11924.8	12844.7	11995.9	11638.8	12237.9	8699.7
52.5°	5448.3	5573.5	5928.1	7162.0	9070.3	11749.6	13766.3	13145.1	12640.7	12877.7	8966.2
55°	3436.7	3529.8	3827.7	5058.2	7255.9	10838.2	14115.8	14388.3	13939.8	13483.6	9197.3
57.5°	1868.6	1910.0	2021.7	2792.7	4719.6	8823.2	13606.3	15095.8	14909.6	13998.2	9371.6
58°	1672.2	1700.2	1769.6	2420.3	4185.7	8272.3	13380.4	15098.3	15005.2	14073.5	9385.1
60°	1240.6	1226.2	1164.5	1381.1	2329.8	5714.9	12014.5	14494.1	14767.4	14165.7	9319.1
62.5°	1090.0	1055.3	929.2	914.8	1133.2	2632.7	9193.0	12415.6	13061.3	13639.3	8918.0
65°	1024.0	986.8	824.3	771.8	817.5	1113.7	5415.3	9311.5	10121.4	12043.3	7892.3
67.5°	974.9	926.7	757.4	685.5	688.9	736.3	2170.7	5864.7	6776.1	9143.9	6138.8
70°	927.5	875.0	700.7	617.8	598.3	582.2	863.2	2935.7	3762.5	5775.8	3914.0
72.5°	876.7	825.1	650.8	564.5	526.4	473.1	563.6	1200.9	1677.3	2732.6	1775.5
75°	803.1	756.6	600.9	517.1	462.9	391.8	425.7	627.1	752.3	1088.3	855.6
77.5°	712.6	674.5	545.0	478.1	410.4	318.2	327.5	435.0	482.4	622.9	508.6
80°	512.0	525.5	484.9	429.9	365.6	258.1	251.3	317.4	342.7	400.3	330.9
82.5°	359.7	367.3	401.1	351.2	302.1	203.1	185.3	223.4	238.6	263.2	178.6
85°	248.0	239.5	275.0	244.6	218.3	135.4	126.9	151.5	160.8	163.3	92.2
87.5°	148.9	148.9	159.1	131.2	117.6	70.2	68.5	86.3	92.2	88.0	50.8
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°	4773.8	4773.8	4773.8	4773.8	4773.8	4773.8	4773.8	4773.8	4773.8	4773.8	4773.8
2.5°	4786.5	4726.4	4598.6	4496.2	4366.8	4232.2	4156.9	4076.5	4021.5	3981.7	4045.2
5°	4822.9	4700.2	4436.1	4185.7	3908.9	3621.2	3402.9	3199.7	3058.4	2970.4	3053.3
7.5°	4880.4	4691.7	4271.1	3842.9	3346.2	2867.2	2439.0	2170.7	2014.1	1937.1	1985.3
10°	4946.4	4678.2	4077.3	3378.3	2667.4	2064.1	1744.2	1635.8	1600.3	1585.9	1592.7
12.5°	5001.5	4649.4	3839.5	2816.4	2003.1	1629.9	1537.7	1535.1	1542.8	1544.4	1547.0
15°	5040.4	4607.1	3486.6	2230.8	1602.0	1485.2	1480.1	1495.4	1509.7	1515.7	1519.1
17.5°	5066.6	4519.9	3088.0	1763.6	1435.3	1415.0	1426.8	1446.3	1461.5	1465.7	1469.1
20°	5064.1	4392.1	2613.3	1470.8	1344.7	1344.7	1365.0	1380.3	1381.1	1376.0	1378.6
22.5°	5037.8	4217.0	2152.9	1315.1	1264.3	1278.7	1299.0	1284.6	1225.4	1186.5	1189.0
25°	4993.8	4007.9	1758.5	1216.1	1189.9	1215.2	1209.3	1101.0	1016.4	978.3	978.3
27.5°	4954.9	3760.8	1455.6	1129.8	1115.4	1146.7	1041.8	943.6	908.0	890.3	884.4
30°	4927.0	3494.2	1253.3	1046.8	1045.1	1022.3	903.8	876.7	870.8	856.4	851.3
32.5°	4933.8	3224.3	1123.8	974.1	980.0	875.0	837.8	843.7	838.7	823.4	816.7
35°	4989.6	2967.9	1039.2	908.0	890.3	790.4	798.9	809.9	808.2	787.0	780.3
37.5°	5089.5	2725.0	983.4	853.0	776.9	748.1	761.6	778.6	774.3	760.0	754.9
40°	5194.4	2496.5	937.7	809.9	710.0	719.3	731.2	740.5	744.7	748.9	745.6
42.5°	5296.8	2257.8	881.8	765.9	682.1	692.2	697.3	706.6	729.5	745.6	744.7
45°	5357.7	2033.6	824.3	703.3	660.1	666.0	662.6	681.2	709.2	735.4	736.3
47.5°	5425.4	1859.3	778.6	645.7	638.9	643.2	633.0	651.6	677.0	709.2	712.6
50°	5507.5	1755.2	742.2	600.0	610.2	610.2	607.6	624.5	660.1	697.3	704.1
52.5°	5600.6	1734.9	711.7	567.0	581.4	580.5	583.1	608.5	647.4	683.8	689.7
55°	5714.0	1789.9	678.7	542.5	553.5	556.8	565.3	594.1	627.1	668.6	671.1
57.5°	5846.0	1901.6	652.5	523.0	528.1	539.1	552.6	578.8	614.4	660.1	662.6
58°	5868.0	1925.3	648.2	521.3	523.0	535.7	550.9	576.3	611.9	661.8	664.3
60°	5868.9	2004.0	638.9	513.7	503.5	524.7	541.6	567.0	607.6	667.7	673.6
62.5°	5660.7	2003.1	632.2	502.7	483.2	509.5	528.9	558.5	603.4	682.1	693.9
65°	4984.5	1820.3	600.0	485.8	467.1	495.9	517.9	552.6	615.2	744.7	752.3
67.5°	3898.8	1492.0	539.9	462.1	446.0	482.4	511.1	551.8	627.9	759.1	764.2
70°	2577.7	1116.2	473.9	435.0	424.0	466.3	514.5	580.5	613.5	728.6	715.1
72.5°	1338.0	783.6	420.6	401.1	398.6	451.9	563.6	577.2	599.2	685.5	668.6
75°	702.4	544.2	374.1	363.9	368.1	448.5	665.2	561.9	580.5	655.9	688.0
77.5°	429.9	439.2	334.3	330.0	338.5	438.4	664.3	542.5	553.5	603.4	638.9
80°	287.7	356.3	303.8	304.7	310.6	401.1	596.6	512.0	520.5	570.4	606.8
82.5°	181.9	210.7	275.9	290.3	282.7	330.9	506.9	466.3	478.1	652.5	689.7
85°	92.2	132.0	239.5	279.3	254.7	231.9	411.3	408.7	414.7	470.5	491.7
87.5°	42.3	72.8	187.0	243.7	192.1	144.7	298.7	303.0	326.7	334.3	334.3
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)