

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: P530047

Luminaire Tested: **GALN-SA5B-730-U-AFL-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P530047  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-27)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA5B-730-U-AFL-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 19360 lumens  
Efficiency: N/A  
Efficacy: 94.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1

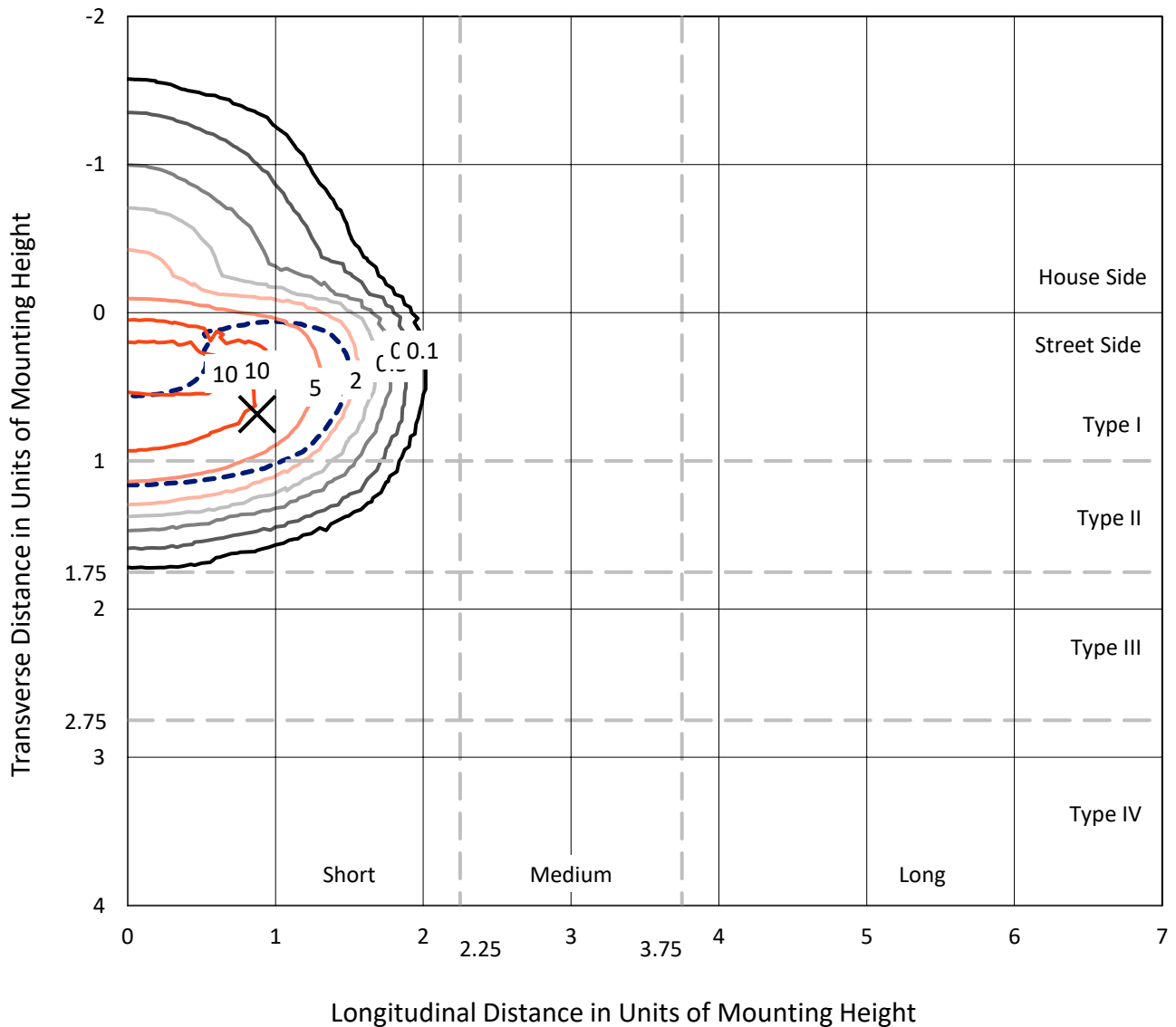
Input Watts (W): 204  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

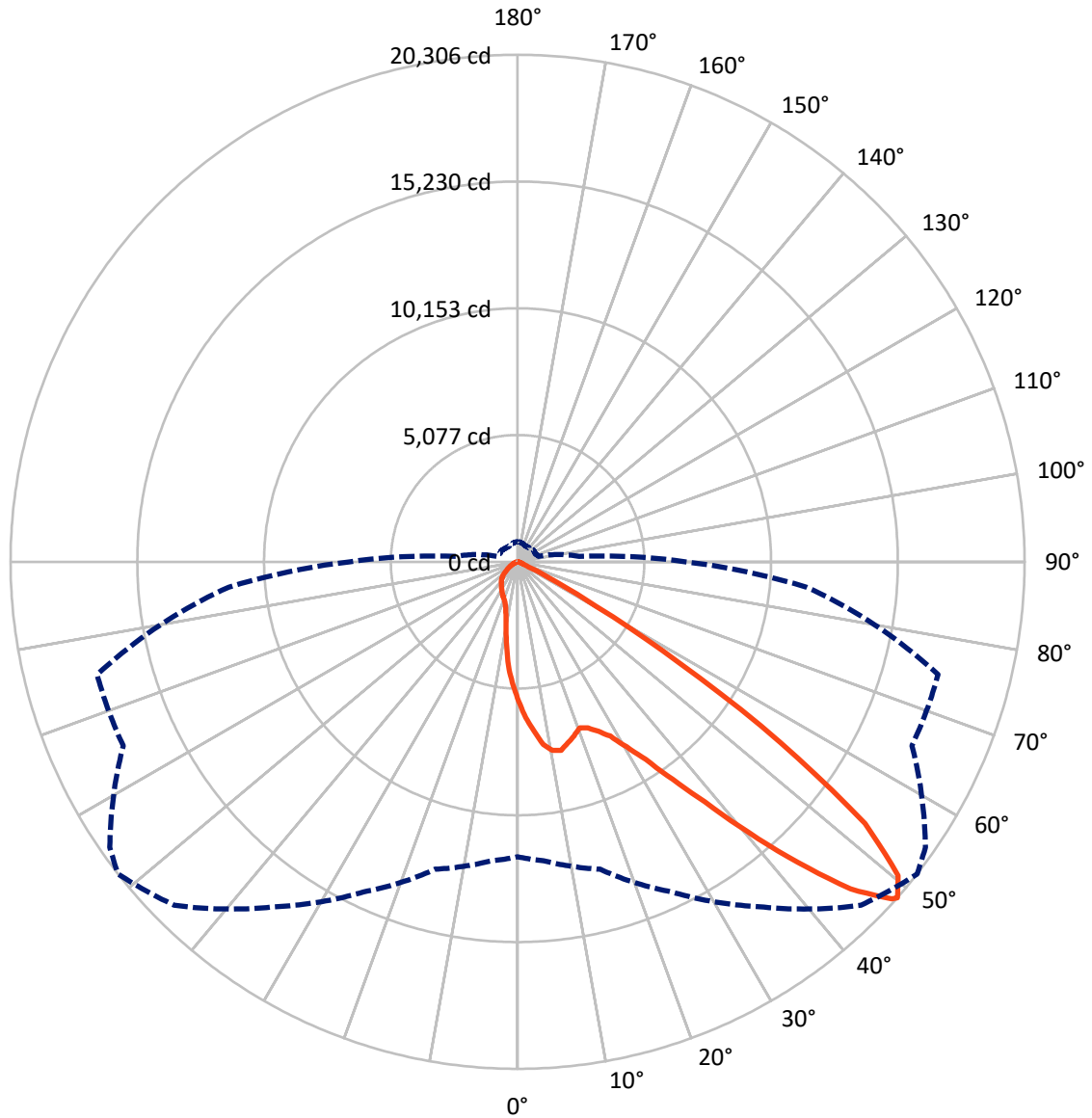
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.5 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral    - - - Horizontal Cone Through 48-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2357.2	0.0	2357.2
	% Fixture	12.2	0.0	12.2
<b>Street Side</b>	Lumens	17002.8	0.0	17002.8
	% Fixture	87.8	0.0	87.8
<b>Total</b>	Lumens	19360.0	0.0	19360.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	511.7	2.6
10°-20°	1337.3	6.9
20°-30°	2283.3	11.8
30°-40°	4204.8	21.7
40°-50°	6530.0	33.7
50°-60°	3930.0	20.3
60°-70°	454.5	2.3
70°-80°	88.0	0.5
80°-90°	20.3	0.1
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°	19360.0	100.0
0°-180°	19360.0	100.0

**Coefficient of Utilization**



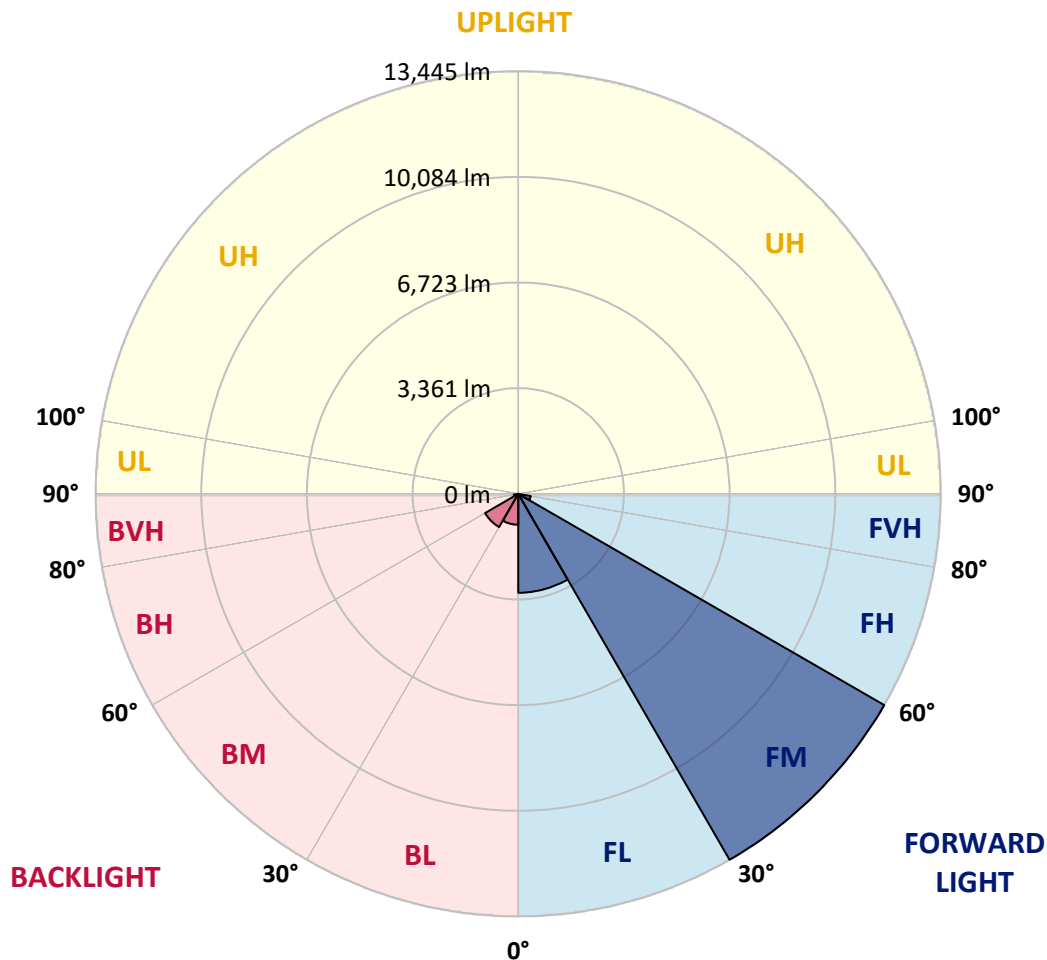
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3147.7	16.3			
FM (30°-60°)	13445.1	69.4			
FH (60°-80°)	400.3	2.1			G0/660
FVH (80°-90°)	9.7	0.1			G0/10
BL (0°-30°)	984.7	5.1	B2/1000		
BM (30°-60°)	1219.6	6.3	B2/2500		
BH (60°-80°)	142.3	0.7	B1/500		G1/500
BVH (80°-90°)	10.7	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	5590.8	5590.8	5590.8	5590.8	5590.8	5590.8	5590.8	5590.8	5590.8	5590.8	5590.8
2.5°	6776.2	6621.0	6635.1	6533.5	6474.2	6378.2	6248.4	6223.0	6081.9	5890.0	5695.3
5°	7385.8	7349.1	7397.1	7250.3	7256.0	7097.9	6793.1	6798.8	6474.2	6160.9	5859.0
7.5°	7425.3	7340.6	7388.6	7518.4	7594.6	7566.4	7394.3	7244.7	6937.1	6477.0	6036.8
10°	6649.2	6810.1	6860.9	7075.3	7380.1	7701.9	7682.1	7690.6	7433.8	6832.6	6189.2
12.5°	6183.5	6076.3	6248.4	6378.2	6838.3	7462.0	7747.0	7809.1	7828.9	7176.9	6341.6
15°	5971.8	5971.8	6000.1	6036.8	6369.8	6945.5	7526.9	7707.5	8133.7	7628.5	6581.5
17.5°	6104.5	6098.8	6138.4	6062.2	6186.3	6629.4	7323.7	7529.7	8475.2	8071.6	6770.5
20°	6508.1	6527.8	6502.4	6282.3	6290.8	6623.8	7097.9	7422.5	8706.6	8455.4	7021.7
22.5°	7069.7	7081.0	6937.1	6697.2	6626.6	6790.3	7227.7	7476.1	8892.9	8915.4	7097.9
25°	7718.8	7673.7	7645.4	7306.8	7092.3	7233.4	7521.3	7665.2	9008.6	9310.6	7315.2
27.5°	8619.1	8528.8	8356.6	8054.7	7896.6	7696.2	7902.3	8139.3	9338.8	9863.7	7552.3
30°	9948.4	9869.4	9533.5	9144.0	8729.2	8531.6	8596.5	8726.3	9934.3	10504.4	7865.6
32.5°	11949.3	11782.8	11297.4	10555.2	9990.7	9446.0	9429.1	9567.4	10467.7	11390.5	8238.1
35°	14153.5	14102.7	13388.7	12623.9	11531.6	10690.6	10704.7	10778.1	11489.3	12553.3	8726.3
37.5°	15618.2	15897.6	15443.3	14622.0	13704.8	12502.5	12197.7	12223.1	12892.0	13930.5	9606.9
40°	16750.0	16512.9	16566.5	16374.6	15748.1	14929.6	14255.1	14122.5	14514.8	15454.6	10481.8
42.5°	16256.1	16267.4	16597.6	17051.9	17207.2	17147.9	16459.3	16208.1	15903.3	16702.0	11314.3
45°	14861.9	15152.6	15581.6	16783.8	17839.3	18829.9	18694.5	18276.8	16862.9	17689.8	11794.1
47.5°	12638.0	12626.7	13329.4	14892.9	17238.2	19558.1	20173.3	19879.8	17543.0	17579.7	11695.3
48°	11816.7	12019.9	12745.2	14585.3	16857.2	19450.8	20306.0	19936.3	17427.3	17432.9	11610.7
50°	8734.8	8698.1	9601.2	11859.0	15056.6	18276.8	19747.2	20035.0	17424.5	16690.7	11018.0
52.5°	4614.4	4772.4	5430.0	7456.3	10645.5	14957.8	17418.8	17867.6	16809.2	15477.1	10165.7
55°	1961.5	1772.4	2277.5	3366.9	5988.8	9993.5	12779.1	13778.1	14212.8	13696.3	8892.9
57.5°	699.9	764.8	880.5	1267.2	2517.4	5469.5	7620.0	8396.1	9846.8	10050.0	6059.3
60°	448.7	457.2	493.9	581.4	945.4	2108.2	3615.3	4233.4	4890.9	5049.0	2827.9
62.5°	347.1	350.0	366.9	381.0	448.7	818.4	1357.5	1608.7	1670.8	1436.5	742.2
65°	290.7	293.5	299.2	299.2	318.9	383.8	474.1	522.1	508.0	502.4	420.5
67.5°	223.0	228.6	239.9	239.9	251.2	234.2	262.5	279.4	316.1	383.8	358.4
70°	175.0	177.8	186.3	191.9	191.9	169.3	189.1	206.0	231.4	285.0	282.2
72.5°	135.5	141.1	146.8	146.8	138.3	115.7	135.5	149.6	166.5	197.6	191.9
75°	104.4	104.4	107.2	87.5	67.7	59.3	81.8	98.8	124.2	129.8	107.2
77.5°	28.2	31.0	28.2	25.4	28.2	42.3	53.6	62.1	79.0	79.0	70.6
80°	0.0	2.8	8.5	16.9	28.2	39.5	48.0	53.6	62.1	67.7	64.9
82.5°	0.0	2.8	8.5	16.9	25.4	31.0	42.3	45.2	50.8	59.3	59.3
85°	0.0	2.8	5.6	11.3	16.9	19.8	19.8	16.9	16.9	14.1	11.3
87.5°	0.0	0.0	2.8	5.6	5.6	8.5	8.5	8.5	8.5	8.5	8.5
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°	5590.8	5590.8	5590.8	5590.8	5590.8	5590.8	5590.8	5590.8	5590.8	5590.8	5590.8
2.5°	5619.1	5531.6	5398.9	5190.1	4989.7	4859.9	4735.7	4597.4	4521.2	4515.6	4473.2
5°	5686.8	5489.2	5173.2	4814.7	4430.9	4100.7	3767.7	3550.4	3355.6	3248.4	3228.6
7.5°	5723.5	5466.7	4955.8	4354.7	3699.9	3160.9	2788.4	2514.6	2407.4	2328.3	2325.5
10°	5799.7	5427.2	4631.3	3745.1	2935.1	2390.4	2133.6	2009.4	1950.2	1927.6	1893.7
12.5°	5856.1	5353.8	4298.3	3118.6	2319.9	1981.2	1868.3	1840.1	1842.9	1854.2	1840.1
15°	5935.2	5288.9	3849.5	2559.8	1947.3	1783.7	1783.7	1789.3	1828.8	1834.5	1831.6
17.5°	5929.5	5161.9	3386.7	2108.2	1721.6	1699.0	1707.5	1761.1	1786.5	1794.9	1775.2
20°	5997.2	5043.3	2909.7	1800.6	1594.6	1628.4	1684.9	1699.0	1730.0	1735.7	1713.1
22.5°	5977.5	4747.0	2466.6	1557.9	1498.6	1563.5	1620.0	1636.9	1628.4	1611.5	1608.7
25°	5940.8	4493.0	2060.2	1397.0	1428.1	1498.6	1552.2	1521.2	1504.3	1507.1	1509.9
27.5°	5875.9	4171.3	1724.4	1284.1	1332.1	1436.5	1433.7	1422.4	1439.3	1425.2	1439.3
30°	5864.6	3849.5	1447.8	1182.5	1261.5	1337.7	1343.4	1363.1	1382.9	1357.5	1382.9
32.5°	5881.5	3496.7	1250.2	1120.4	1219.2	1222.0	1284.1	1303.9	1289.8	1233.3	1239.0
35°	6011.4	3225.8	1106.3	1086.6	1151.5	1154.3	1213.6	1188.2	1126.1	1092.2	1112.0
37.5°	6285.1	3000.0	1038.6	1055.5	1061.2	1097.8	1100.7	1049.9	1055.5	1052.7	1064.0
40°	6635.1	2827.9	990.6	1027.3	1021.6	1047.0	945.4	973.7	999.1	1007.5	1013.2
42.5°	6875.0	2703.7	959.6	982.1	970.8	925.7	869.2	897.5	917.2	948.3	953.9
45°	6982.2	2604.9	922.9	903.1	903.1	821.3	798.7	804.3	849.5	883.4	877.7
47.5°	6807.2	2509.0	858.0	798.7	818.4	750.7	725.3	725.3	773.3	815.6	807.2
48°	6739.5	2469.5	860.8	776.1	790.2	739.4	714.0	708.4	762.0	801.5	801.5
50°	6403.6	2322.7	787.4	714.0	685.8	680.2	663.2	668.9	702.7	739.4	739.4
52.5°	5748.9	2006.6	666.0	612.4	561.6	595.5	604.0	592.7	609.6	643.5	640.6
55°	4797.8	1540.9	533.4	508.0	468.5	505.2	522.1	508.0	491.1	516.5	516.5
57.5°	3073.4	829.7	426.2	431.8	392.3	429.0	443.1	409.2	378.2	397.9	395.1
60°	1385.7	496.7	350.0	341.5	316.1	358.4	381.0	341.5	299.2	313.3	327.4
62.5°	519.3	352.8	265.3	259.6	254.0	293.5	304.8	273.8	231.4	239.9	242.7
65°	381.0	310.4	211.7	191.9	203.2	231.4	225.8	194.7	166.5	166.5	172.2
67.5°	324.6	270.9	172.2	149.6	149.6	152.4	141.1	124.2	115.7	121.4	127.0
70°	254.0	214.5	135.5	115.7	104.4	93.1	81.8	79.0	70.6	79.0	76.2
72.5°	163.7	143.9	104.4	87.5	79.0	64.9	53.6	50.8	42.3	39.5	39.5
75°	87.5	87.5	81.8	70.6	62.1	50.8	42.3	33.9	22.6	16.9	16.9
77.5°	62.1	67.7	73.4	67.7	56.4	42.3	33.9	22.6	11.3	5.6	5.6
80°	59.3	67.7	73.4	64.9	56.4	42.3	31.0	16.9	8.5	2.8	2.8
82.5°	53.6	62.1	67.7	59.3	50.8	36.7	28.2	16.9	8.5	2.8	2.8
85°	11.3	14.1	16.9	16.9	19.8	25.4	19.8	14.1	5.6	2.8	2.8
87.5°	8.5	8.5	8.5	8.5	8.5	8.5	5.6	5.6	2.8	2.8	2.8
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)