

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: P530750

Luminaire Tested: **GALN-SA6A-730-U-AFL-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P530750  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-28)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA6A-730-U-AFL-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 22286 lumens  
Efficiency: N/A  
Efficacy: 122.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

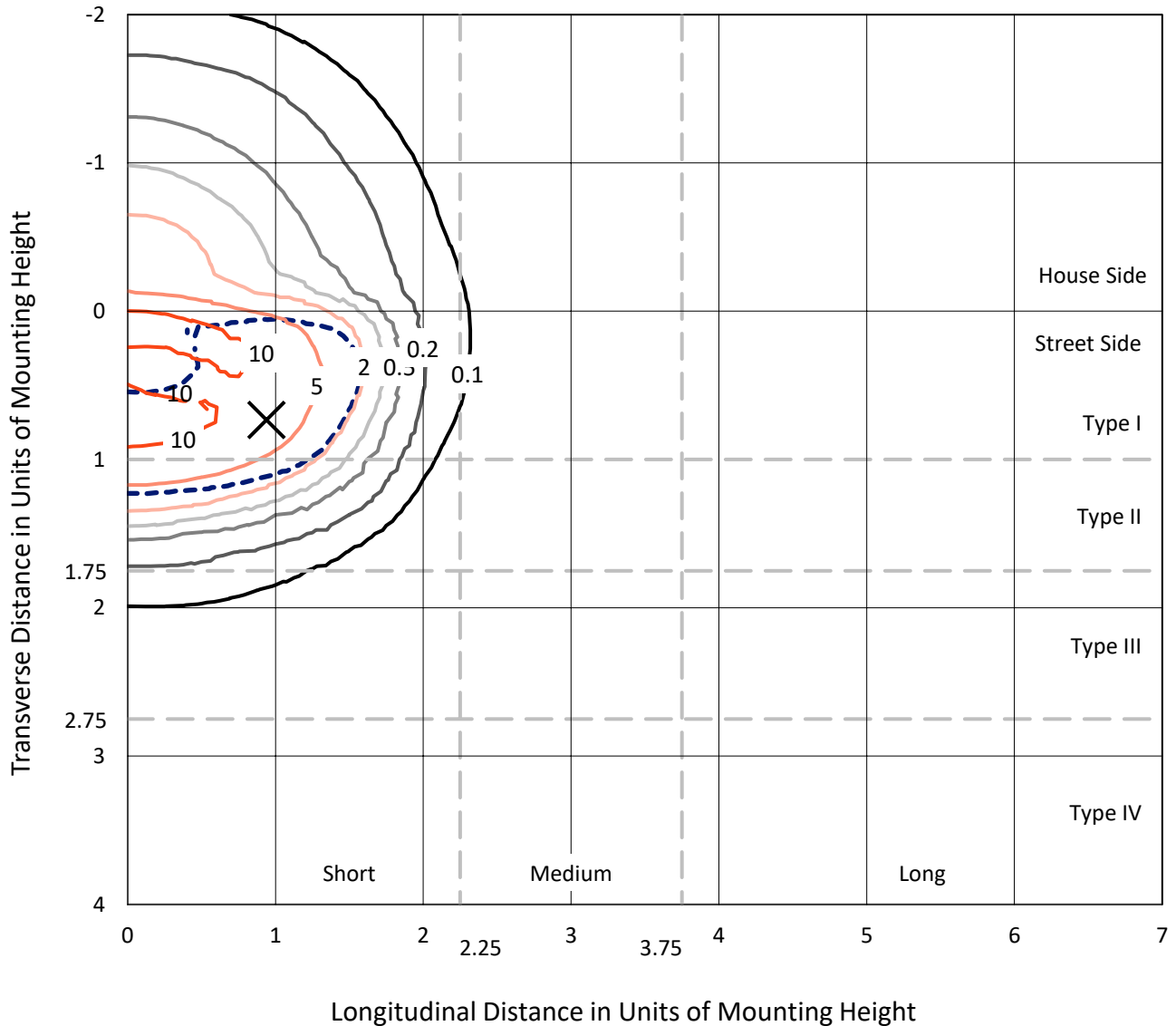
Input Watts (W): 182  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

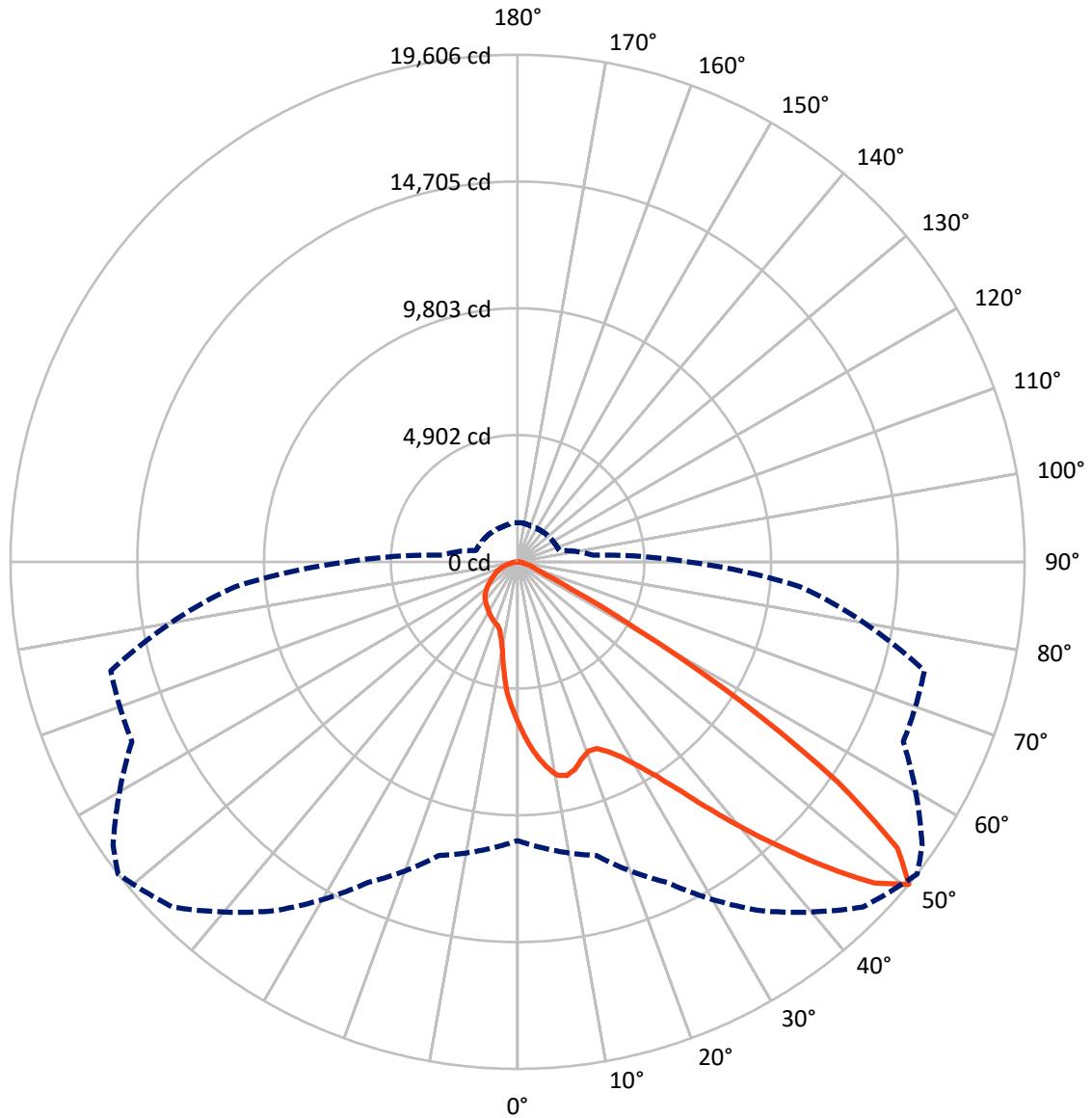
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.9 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral    - - - Horizontal Cone Through 50-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4189.2	0.0	4189.2
	% Fixture	18.8	0.0	18.8
<b>Street Side</b>	Lumens	18096.8	0.0	18096.8
	% Fixture	81.2	0.0	81.2
<b>Total</b>	Lumens	22286.0	0.0	22286.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	579.0	2.6
10°-20°	1551.9	7.0
20°-30°	2614.1	11.7
30°-40°	4386.7	19.7
40°-50°	6710.6	30.1
50°-60°	4892.6	22.0
60°-70°	1088.8	4.9
70°-80°	392.7	1.8
80°-90°	69.5	0.3
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°	22286.0	100.0
0°-180°	22286.0	100.0

**Coefficient of Utilization**



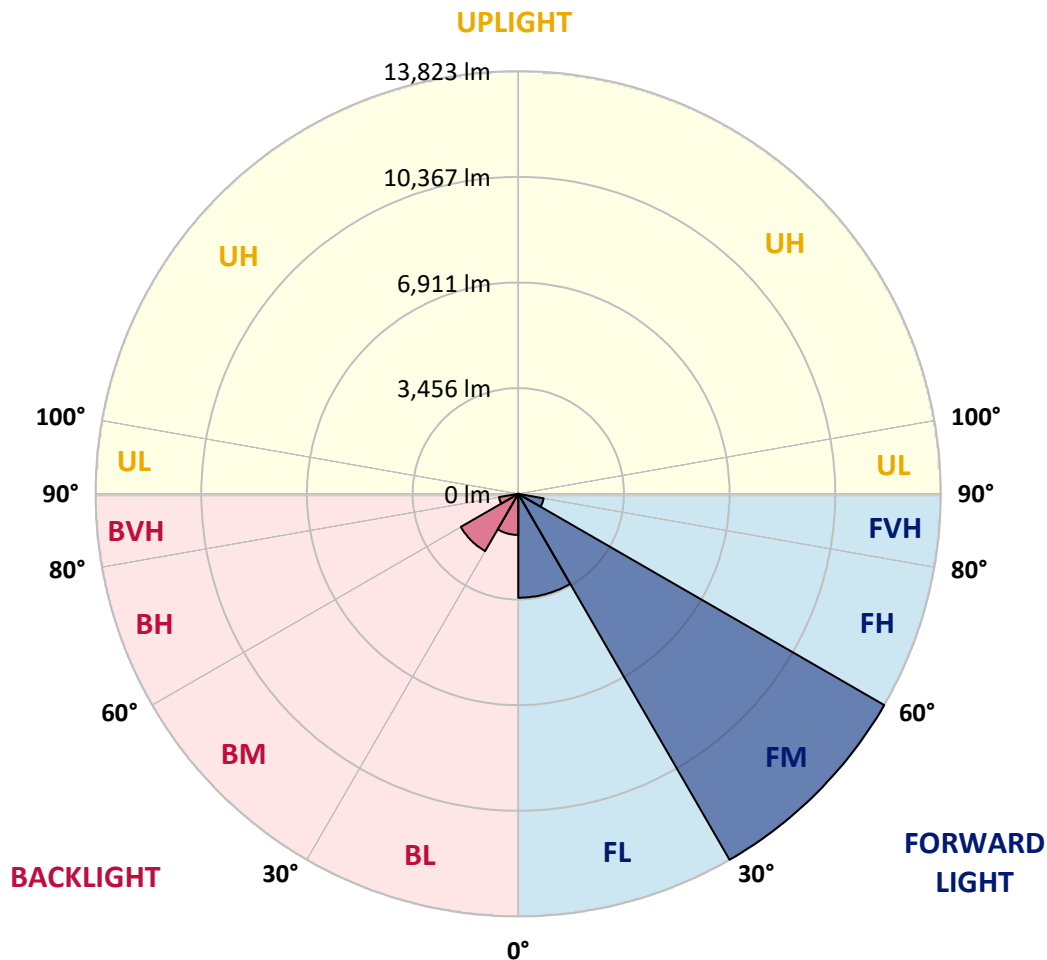
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3399.4	15.3			
FM (30°-60°)	13822.9	62.0			
FH (60°-80°)	843.3	3.8			G1/1800
FVH (80°-90°)	31.2	0.1			G1/100
BL (0°-30°)	1345.7	6.0	B3/2500		
BM (30°-60°)	2167.0	9.7	B2/2500		
BH (60°-80°)	638.2	2.9	B2/1000		G2/1000
BVH (80°-90°)	38.4	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-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	6282.1	6282.1	6282.1	6282.1	6282.1	6282.1	6282.1	6282.1	6282.1	6282.1	6282.1
2.5°	7396.7	7254.3	7270.4	7168.4	7058.2	7026.0	6913.2	6805.8	6725.2	6553.3	6394.9
5°	8084.2	8041.2	7976.8	7896.2	7813.0	7608.8	7493.3	7359.1	7063.6	6797.7	6534.5
7.5°	8183.6	8175.5	8210.4	8210.4	8240.0	8162.1	7998.3	7904.3	7590.0	7157.6	6668.8
10°	7485.3	7509.5	7678.7	7898.9	8205.1	8417.3	8390.4	8366.2	8022.4	7431.6	6827.3
12.5°	6929.3	6875.6	6975.0	7163.0	7622.3	8135.2	8481.7	8484.4	8395.8	7869.4	6942.8
15°	6615.1	6652.7	6679.6	6768.2	7114.6	7708.2	8317.9	8497.8	8887.3	8178.2	7125.4
17.5°	6816.5	6690.3	6684.9	6706.4	6883.7	7329.5	8014.4	8323.3	9155.8	8575.7	7351.0
20°	7079.7	7077.0	7001.8	6975.0	6972.3	7369.8	7815.6	8234.6	9298.2	9091.4	7579.3
22.5°	7541.7	7541.7	7418.1	7359.1	7232.8	7557.8	7842.5	8127.2	9534.5	9445.9	7689.4
25°	8315.2	8189.0	7976.8	7831.8	7759.2	7874.7	8127.2	8382.3	9741.3	9821.9	7917.7
27.5°	9029.6	8830.9	8726.1	8476.3	8379.7	8312.5	8543.5	8801.3	9983.1	10407.4	8041.2
30°	9840.7	9805.8	9617.8	9295.5	9056.5	8932.9	9145.1	9400.3	10426.2	11006.4	8325.9
32.5°	11291.0	10974.1	10719.0	10324.2	9934.7	9671.5	9881.0	10050.2	11162.1	11632.1	8637.5
35°	12856.9	12754.8	12314.3	11602.6	11006.4	10770.0	10893.5	11019.8	12018.9	12588.3	9161.2
37.5°	14395.8	14256.2	13893.6	13294.6	12569.5	12088.7	12177.4	12325.1	12980.4	13877.5	9800.4
40°	15502.4	15330.5	15147.8	15059.2	14339.4	13681.4	13630.4	13668.0	14280.3	15086.1	10509.5
42.5°	15582.9	15795.1	15851.5	16208.7	16039.5	15499.7	15185.4	15193.5	15521.2	16281.2	11226.6
45°	15413.7	15217.7	15634.0	16608.9	17167.5	17420.0	16890.9	16823.8	16289.3	16974.2	11583.8
47.5°	13638.4	13692.1	14395.8	15937.5	17551.6	18679.6	18556.1	18333.2	16700.2	16950.0	11527.4
50°	10780.7	11105.7	11758.4	13678.7	16477.3	18878.4	19606.2	19090.6	16455.8	16283.9	10952.6
52.5°	7179.1	7313.4	7743.1	10222.1	13249.0	16874.8	18397.6	18515.8	16230.2	15411.0	10224.8
55°	3196.1	3185.3	3789.6	5339.3	8312.5	12840.7	15032.3	15752.1	15362.7	14522.0	9515.7
57.5°	1353.6	1399.3	1646.4	2307.1	4087.8	7748.5	10184.5	10815.7	11814.8	11924.9	7300.0
60°	915.9	921.2	988.4	1154.9	1710.8	3639.2	5342.0	6099.4	6813.8	6765.5	3872.9
62.5°	719.8	738.6	789.6	856.8	1015.2	1651.8	2390.3	2812.0	2857.7	2403.8	1469.1
65°	615.0	617.7	668.8	725.2	795.0	961.5	1152.2	1173.7	1187.1	1144.1	1079.7
67.5°	507.6	513.0	553.3	617.7	682.2	735.9	789.6	816.5	878.3	999.1	983.0
70°	402.9	410.9	445.8	499.6	558.6	590.9	658.0	682.2	738.6	832.6	870.2
72.5°	306.2	308.9	338.4	376.0	429.7	462.0	518.4	545.2	582.8	663.4	698.3
75°	220.2	228.3	249.8	268.6	276.6	298.1	351.8	381.4	435.1	470.0	472.7
77.5°	115.5	120.9	126.2	126.2	153.1	193.4	228.3	244.4	282.0	308.9	295.4
80°	45.7	48.3	61.8	83.3	107.4	139.7	163.8	171.9	204.1	220.2	228.3
82.5°	26.9	29.5	40.3	59.1	77.9	99.4	118.2	126.2	147.7	166.5	171.9
85°	13.4	16.1	24.2	37.6	51.0	61.8	59.1	56.4	56.4	53.7	56.4
87.5°	5.4	5.4	8.1	8.1	8.1	10.7	13.4	13.4	13.4	16.1	16.1
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°	6282.1	6282.1	6282.1	6282.1	6282.1	6282.1	6282.1	6282.1	6282.1	6282.1	6282.1
2.5°	6290.1	6182.7	6083.3	5900.7	5701.9	5645.5	5414.5	5331.3	5272.2	5202.4	5180.9
5°	6322.3	6180.0	5860.4	5492.4	5199.7	4823.7	4576.6	4310.7	4117.3	4069.0	4055.5
7.5°	6389.5	6145.1	5594.5	5038.5	4439.6	3929.3	3539.9	3330.4	3145.1	3134.3	3115.5
10°	6464.7	6040.3	5304.4	4431.5	3666.1	3193.4	2959.7	2868.4	2822.8	2812.0	2806.6
12.5°	6526.5	6018.8	4979.4	3840.7	3118.2	2833.5	2763.7	2755.6	2774.4	2779.8	2790.5
15°	6553.3	5932.9	4587.3	3311.6	2777.1	2672.4	2701.9	2734.1	2747.6	2782.5	2755.6
17.5°	6604.3	5822.8	4103.9	2892.6	2586.4	2605.2	2656.2	2693.8	2715.3	2739.5	2704.6
20°	6631.2	5723.4	3650.0	2642.8	2519.3	2554.2	2624.0	2653.6	2680.4	2691.2	2650.9
22.5°	6607.0	5519.3	3249.8	2441.4	2454.8	2500.5	2562.2	2594.5	2578.4	2535.4	2511.2
25°	6542.6	5231.9	2833.5	2312.5	2363.5	2444.1	2492.4	2468.2	2438.7	2414.5	2406.5
27.5°	6539.9	4880.1	2532.7	2194.3	2285.6	2395.7	2379.6	2358.1	2371.5	2352.7	2331.3
30°	6553.3	4539.0	2285.6	2127.1	2229.2	2282.9	2301.7	2280.2	2296.3	2261.4	2272.2
32.5°	6483.5	4205.9	2124.5	2049.3	2162.1	2159.4	2221.1	2237.3	2199.7	2127.1	2137.9
35°	6513.0	3937.4	1987.5	2014.3	2086.9	2086.9	2135.2	2116.4	2017.0	1974.1	1984.8
37.5°	6717.2	3674.2	1920.3	1966.0	2014.3	2035.8	2019.7	1939.1	1915.0	1915.0	1920.3
40°	6910.5	3448.5	1880.1	1955.3	1947.2	1960.6	1842.4	1850.5	1850.5	1853.2	1839.8
42.5°	7082.4	3295.5	1847.8	1890.8	1904.2	1834.4	1761.9	1753.8	1772.6	1769.9	1759.2
45°	7144.2	3169.2	1802.2	1818.3	1829.0	1713.5	1678.6	1662.5	1684.0	1692.0	1702.8
47.5°	6907.8	3064.5	1751.1	1718.9	1697.4	1622.2	1576.6	1547.0	1573.9	1619.5	1630.3
50°	6604.3	2927.5	1670.6	1608.8	1563.1	1530.9	1498.7	1469.1	1487.9	1520.2	1512.1
52.5°	6155.8	2712.6	1568.5	1504.0	1426.2	1434.2	1404.7	1388.6	1399.3	1399.3	1391.2
55°	5516.6	2229.2	1396.6	1351.0	1286.5	1308.0	1313.3	1291.9	1270.4	1289.2	1273.1
57.5°	3765.5	1573.9	1246.2	1246.2	1181.7	1211.3	1208.6	1157.6	1106.5	1111.9	1101.2
60°	2178.2	1254.3	1149.5	1138.8	1071.6	1095.8	1101.2	1066.3	988.4	993.7	983.0
62.5°	1238.1	1071.6	1004.5	988.4	974.9	996.4	996.4	950.8	883.6	889.0	878.3
65°	1052.8	993.7	897.1	894.4	889.0	894.4	872.9	824.5	765.4	741.3	744.0
67.5°	956.1	918.5	824.5	800.4	784.2	781.6	741.3	695.6	668.8	647.3	644.6
70°	838.0	808.4	738.6	706.4	690.2	652.6	612.4	582.8	545.2	534.5	545.2
72.5°	663.4	660.7	633.8	598.9	564.0	534.5	499.6	459.3	424.4	416.3	397.5
75°	459.3	464.6	470.0	464.6	435.1	397.5	357.2	325.0	282.0	257.8	252.5
77.5°	300.8	308.9	316.9	306.2	287.4	252.5	225.6	185.3	153.1	134.3	131.6
80°	220.2	231.0	236.3	228.3	206.8	179.9	150.4	118.2	94.0	77.9	77.9
82.5°	169.2	179.9	185.3	171.9	150.4	128.9	107.4	83.3	64.5	51.0	48.3
85°	59.1	56.4	67.1	69.8	83.3	77.9	64.5	48.3	37.6	26.9	24.2
87.5°	16.1	16.1	18.8	18.8	16.1	13.4	13.4	13.4	10.7	8.1	8.1
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)