

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: P527953

Luminaire Tested: **GALN-SA3A-730-U-T2-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P527953  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA3A-730-U-T2-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7334 lumens  
Efficiency: N/A  
Efficacy: 78.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

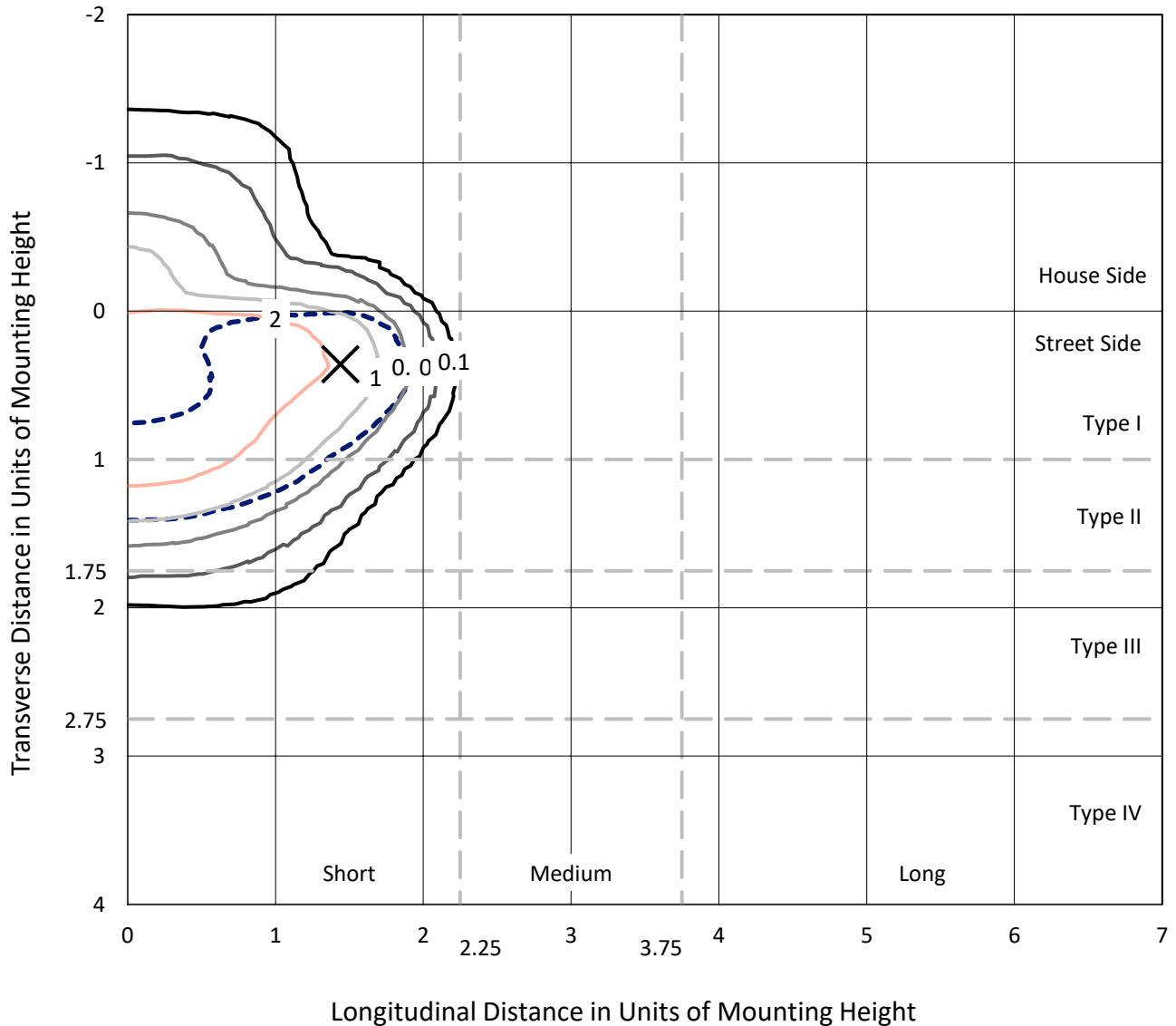
Input Watts (W): 93  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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 CATALOG NUMBER: GALN-SA3A-730-U-T2-GRSBK

### Iso-Footcandle Lines of Horizontal Illumination

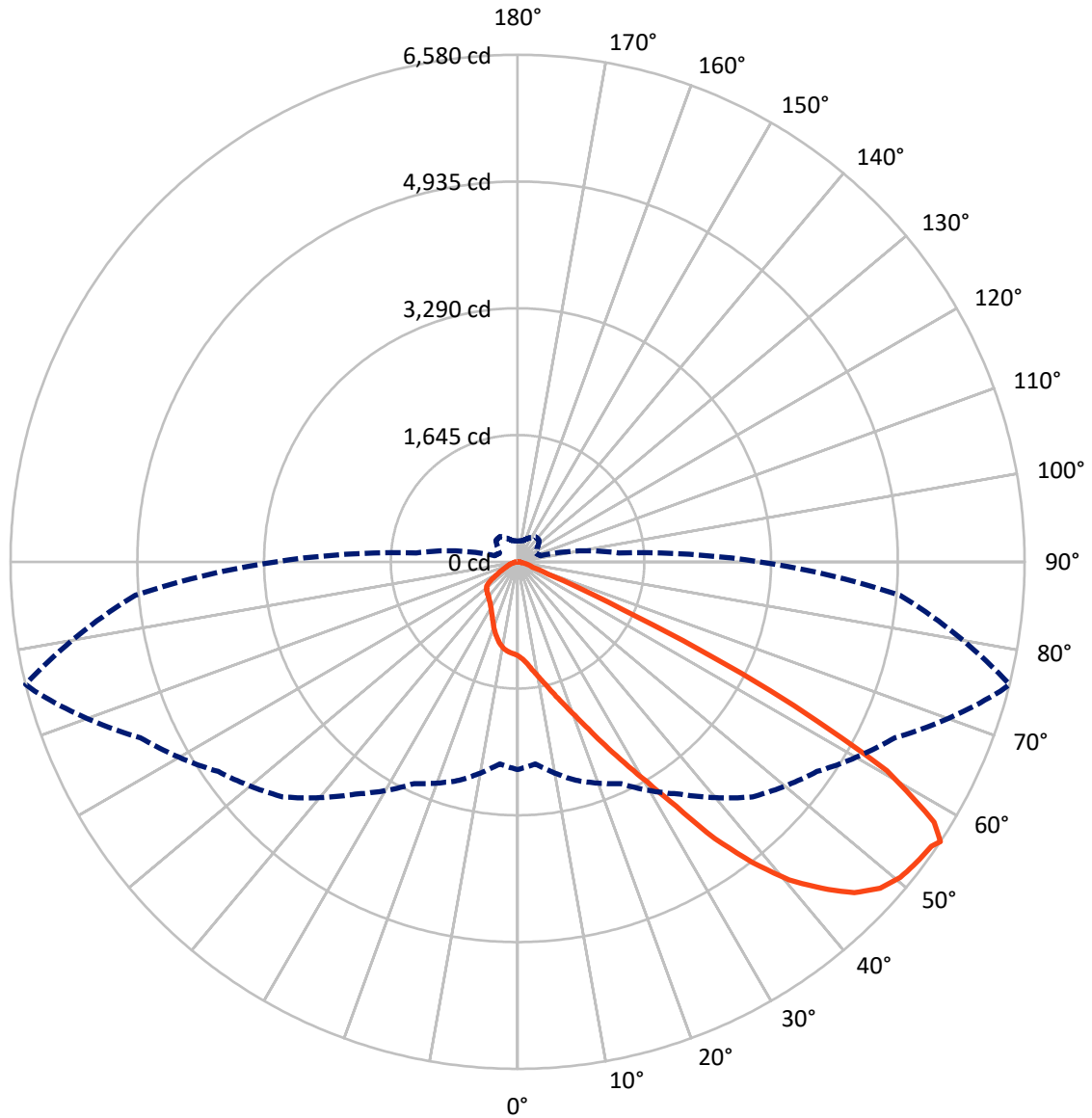
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 fc  
 Type II - Short - N/A

REPORT NUMBER: P527953  
CATALOG NUMBER: GALN-SA3A-730-U-T2-GRSBK

### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1152.1	0.0	1152.1
	% Fixture	15.7	0.0	15.7
<b>Street Side</b>	Lumens	6181.9	0.0	6181.9
	% Fixture	84.3	0.0	84.3
<b>Total</b>	Lumens	7334.0	0.0	7334.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	123.0	1.7
10°-20°	395.1	5.4
20°-30°	716.4	9.8
30°-40°	1235.4	16.8
40°-50°	2007.0	27.4
50°-60°	2115.4	28.8
60°-70°	646.4	8.8
70°-80°	82.9	1.1
80°-90°	12.6	0.2
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°	7334.0	100.0
0°-180°	7334.0	100.0

**Coefficient of Utilization**



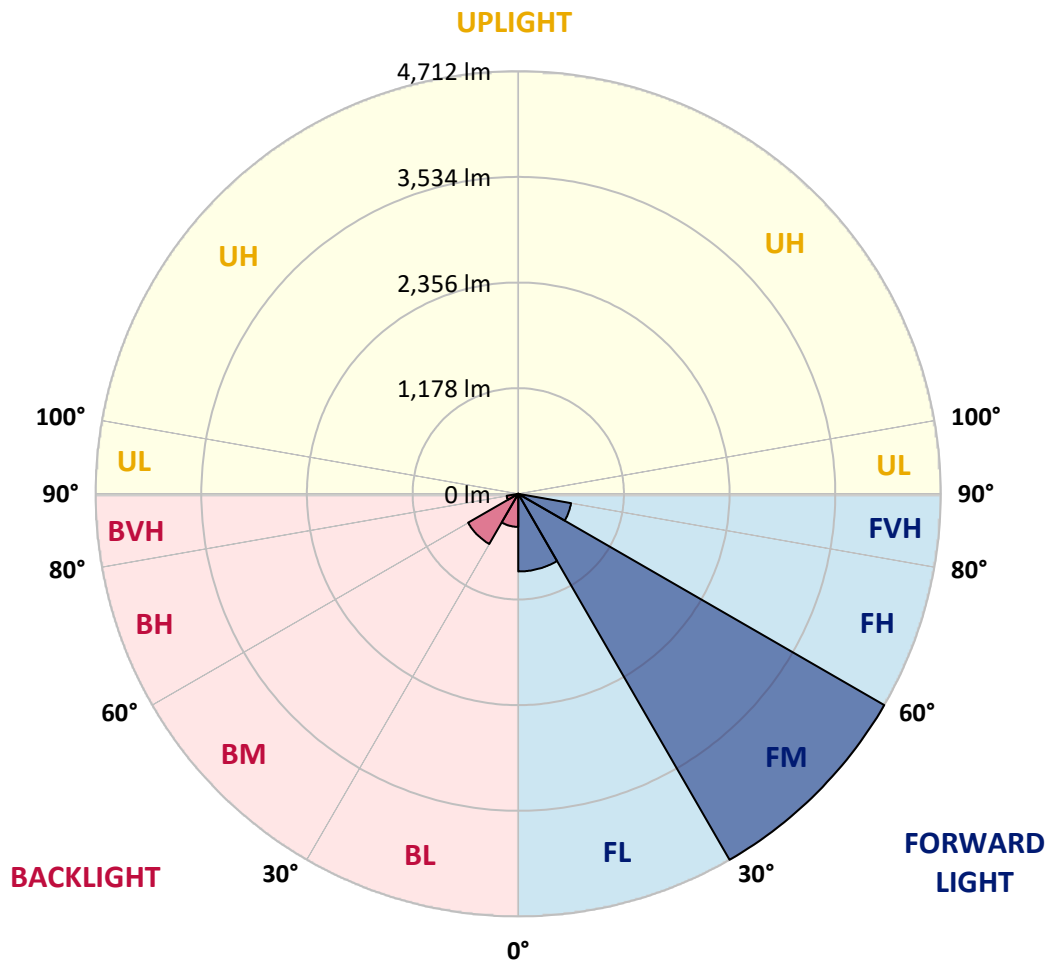
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	865.8	11.8			
FM (30°-60°)	4712.1	64.2			
FH (60°-80°)	597.8	8.2			G0/660
FVH (80°-90°)	6.2	0.1			G0/10
BL (0°-30°)	368.6	5.0	B1/500		
BM (30°-60°)	645.7	8.8	B1/1000		
BH (60°-80°)	131.4	1.8	B1/500		G1/500
BVH (80°-90°)	6.4	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1220.8	1220.8	1220.8	1220.8	1220.8	1220.8	1220.8	1220.8	1220.8	1220.8	1220.8
2.5°	1406.0	1373.5	1374.9	1372.2	1368.1	1353.2	1308.6	1301.9	1272.1	1264.0	1237.0
5°	1575.0	1546.6	1562.8	1538.4	1515.5	1501.9	1428.9	1395.1	1347.8	1330.3	1292.4
7.5°	1680.4	1666.9	1661.5	1662.8	1641.2	1607.4	1575.0	1500.6	1437.1	1423.5	1343.8
10°	1731.8	1723.7	1731.8	1727.7	1737.2	1741.2	1684.5	1639.8	1546.6	1523.6	1399.2
12.5°	1743.9	1760.2	1766.9	1784.5	1807.5	1846.7	1842.6	1781.8	1657.4	1642.5	1484.4
15°	1773.7	1787.2	1780.4	1808.8	1852.1	1918.3	1953.5	1944.0	1810.2	1783.1	1583.1
17.5°	1800.7	1776.4	1799.4	1856.1	1899.4	2000.8	2086.0	2125.2	1976.5	1945.4	1673.6
20°	1837.2	1830.5	1826.4	1854.8	1931.8	2067.0	2236.0	2307.7	2163.0	2130.6	1803.4
22.5°	1948.1	1949.4	1946.7	1904.8	1960.2	2113.0	2367.2	2544.3	2386.1	2359.0	1950.8
25°	2094.1	2076.5	2063.0	2029.2	2022.4	2154.9	2499.6	2833.6	2653.8	2634.8	2110.3
27.5°	2248.2	2248.2	2207.6	2176.5	2133.3	2259.0	2621.3	3114.8	2976.9	2951.2	2249.5
30°	2415.8	2425.3	2419.9	2353.6	2326.6	2372.6	2745.7	3474.4	3347.3	3314.8	2479.4
32.5°	2663.2	2642.9	2665.9	2610.5	2530.7	2571.3	2941.7	3796.1	3828.5	3782.6	2780.8
35°	2990.4	2978.2	2963.3	2872.8	2778.1	2810.6	3218.8	4192.2	4432.8	4409.9	3085.0
37.5°	3283.7	3277.0	3264.8	3202.6	3093.1	3132.3	3533.8	4604.5	5022.3	4946.6	3514.9
40°	3592.0	3628.5	3589.3	3533.8	3433.8	3520.3	3904.3	4849.2	5518.4	5426.5	3843.4
42.5°	4009.7	3981.3	3998.9	3897.5	3843.4	3938.1	4276.0	5093.9	5903.7	5794.2	4192.2
45°	4454.5	4455.8	4408.5	4376.1	4235.5	4338.2	4504.5	5229.1	6210.6	6125.4	4455.8
47.5°	4739.7	4738.4	4789.7	4841.1	4696.5	4595.1	4660.0	5357.5	6368.7	6329.5	4551.8
50°	4695.1	4708.6	4774.9	4966.8	5042.5	4906.0	4806.0	5319.7	6440.4	6436.3	4634.3
52.5°	4084.1	4128.7	4239.5	4516.7	4897.9	5066.9	4958.7	5390.0	6475.5	6482.3	4757.3
55°	3109.3	3133.7	3344.6	3681.2	4103.0	4681.6	4897.9	5445.4	6502.6	6514.8	4906.0
56°	2697.0	2632.1	2936.3	3175.6	3679.8	4312.5	4743.8	5402.1	6486.4	6579.6	4980.4
57.5°	2035.9	1992.7	2238.7	2537.5	3022.8	3690.7	4265.2	5198.0	6376.9	6375.5	4873.6
60°	1238.3	1195.1	1384.3	1560.1	1831.8	2272.5	2882.2	4139.5	5391.3	5504.9	3946.2
62.5°	736.8	763.8	950.4	1057.2	1145.0	1191.0	1491.1	2460.4	3597.4	3678.5	2448.3
65°	490.7	500.2	640.8	816.5	855.7	681.4	607.0	996.3	1560.1	1510.1	1009.9
67.5°	302.8	324.5	429.9	613.8	680.0	497.5	288.0	371.8	429.9	429.9	292.0
70°	183.9	194.7	286.6	417.7	466.4	320.4	209.5	209.5	206.8	202.8	174.4
72.5°	87.9	94.6	146.0	215.0	219.0	169.0	162.2	177.1	173.0	171.7	144.7
75°	37.9	40.6	51.4	67.6	77.1	71.7	98.7	127.1	131.1	127.1	104.1
77.5°	12.2	13.5	18.9	24.3	25.7	31.1	41.9	52.7	60.8	56.8	51.4
80°	1.4	2.7	5.4	12.2	18.9	24.3	31.1	35.1	39.2	39.2	36.5
82.5°	1.4	1.4	5.4	10.8	17.6	23.0	29.7	33.8	39.2	40.6	37.9
85°	0.0	1.4	4.1	9.5	14.9	14.9	13.5	13.5	9.5	9.5	9.5
87.5°	0.0	0.0	1.4	1.4	1.4	2.7	2.7	2.7	2.7	2.7	2.7
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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CATALOG NUMBER: GALN-SA3A-730-U-T2-GRSBK

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1220.8	1220.8	1220.8	1220.8	1220.8	1220.8	1220.8	1220.8	1220.8	1220.8	1220.8
2.5°	1231.6	1228.9	1192.4	1169.4	1157.2	1132.9	1118.0	1107.2	1099.1	1089.6	1091.0
5°	1247.8	1238.3	1177.5	1135.6	1085.6	1058.5	1035.5	1016.6	1004.5	1001.7	996.3
7.5°	1293.8	1243.7	1151.8	1076.1	1012.6	985.5	965.2	953.1	958.5	946.3	955.8
10°	1328.9	1254.6	1120.7	1011.2	947.7	927.4	916.6	926.0	939.6	934.2	927.4
12.5°	1372.2	1265.4	1070.7	949.0	889.5	874.7	893.6	911.2	938.2	949.0	935.5
15°	1420.8	1277.5	1007.2	877.4	839.5	851.7	884.1	915.2	942.3	955.8	963.9
17.5°	1480.3	1273.5	945.0	820.6	792.2	827.4	866.6	895.0	935.5	955.8	950.4
20°	1535.7	1260.0	876.0	763.8	765.2	797.6	830.1	876.0	897.7	924.7	915.2
22.5°	1588.5	1235.6	804.4	724.6	724.6	774.6	790.9	820.6	839.5	853.0	851.7
25°	1662.8	1189.7	744.9	686.8	703.0	735.4	748.9	758.4	750.3	761.1	762.5
27.5°	1715.5	1142.3	696.2	653.0	682.7	707.0	703.0	697.6	678.6	663.8	673.2
30°	1772.3	1086.9	654.3	630.0	646.2	667.8	651.6	635.4	605.6	581.3	582.7
32.5°	1853.4	1061.2	617.8	602.9	624.6	627.3	609.7	585.4	555.6	532.6	531.3
35°	2004.9	1045.0	586.7	585.4	589.4	590.8	573.2	543.5	531.3	512.4	519.1
37.5°	2156.3	1036.9	565.1	559.7	558.3	559.7	539.4	511.0	534.0	532.6	535.3
40°	2349.6	1073.4	534.0	527.2	528.6	528.6	502.9	494.8	535.3	539.4	540.8
42.5°	2545.6	1119.4	513.7	492.1	497.5	497.5	484.0	474.5	502.9	475.9	471.8
45°	2715.9	1187.0	492.1	456.9	470.5	477.2	473.2	456.9	439.4	393.4	393.4
47.5°	2771.4	1246.4	466.4	423.1	434.0	463.7	451.5	417.7	386.6	348.8	346.1
50°	2868.7	1311.3	446.1	383.9	406.9	443.4	431.3	397.5	362.3	335.3	336.6
52.5°	2968.7	1385.7	408.3	338.0	366.4	427.2	427.2	389.3	335.3	316.3	313.6
55°	3118.8	1383.0	340.7	277.1	327.2	402.9	409.6	348.8	300.1	285.2	285.2
56°	3140.4	1320.8	306.9	259.6	309.6	396.1	397.5	338.0	286.6	270.4	270.4
57.5°	2978.2	1192.4	269.0	237.9	288.0	383.9	385.3	328.5	275.8	252.8	250.1
60°	2291.5	807.1	224.4	212.2	260.9	346.1	352.8	298.8	242.0	224.4	223.1
62.5°	1293.8	447.5	197.4	192.0	224.4	294.7	315.0	260.9	205.5	196.0	198.7
65°	590.8	246.0	166.3	155.5	181.2	227.1	254.2	215.0	169.0	158.2	158.2
67.5°	216.3	167.6	141.9	123.0	127.1	147.4	164.9	139.2	112.2	96.0	100.0
70°	154.1	140.6	124.4	106.8	98.7	96.0	94.6	78.4	55.4	43.3	46.0
72.5°	124.4	116.3	104.1	90.6	77.1	64.9	55.4	40.6	25.7	17.6	16.2
75°	89.2	85.2	75.7	64.9	54.1	46.0	37.9	25.7	13.5	6.8	6.8
77.5°	46.0	46.0	44.6	40.6	33.8	27.0	21.6	14.9	8.1	2.7	2.7
80°	35.1	37.9	39.2	35.1	31.1	24.3	17.6	10.8	5.4	1.4	1.4
82.5°	33.8	39.2	41.9	36.5	31.1	23.0	17.6	10.8	5.4	1.4	1.4
85°	8.1	8.1	12.2	13.5	17.6	18.9	14.9	9.5	4.1	1.4	1.4
87.5°	2.7	2.7	2.7	2.7	2.7	2.7	1.4	1.4	1.4	1.4	0.0
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)