

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: P451628

Luminaire Tested: **GALN-SA2C-730-U-T2-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P451628  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-11)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA2C-730-U-T2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9625 lumens  
Efficiency: N/A  
Efficacy: 89.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2

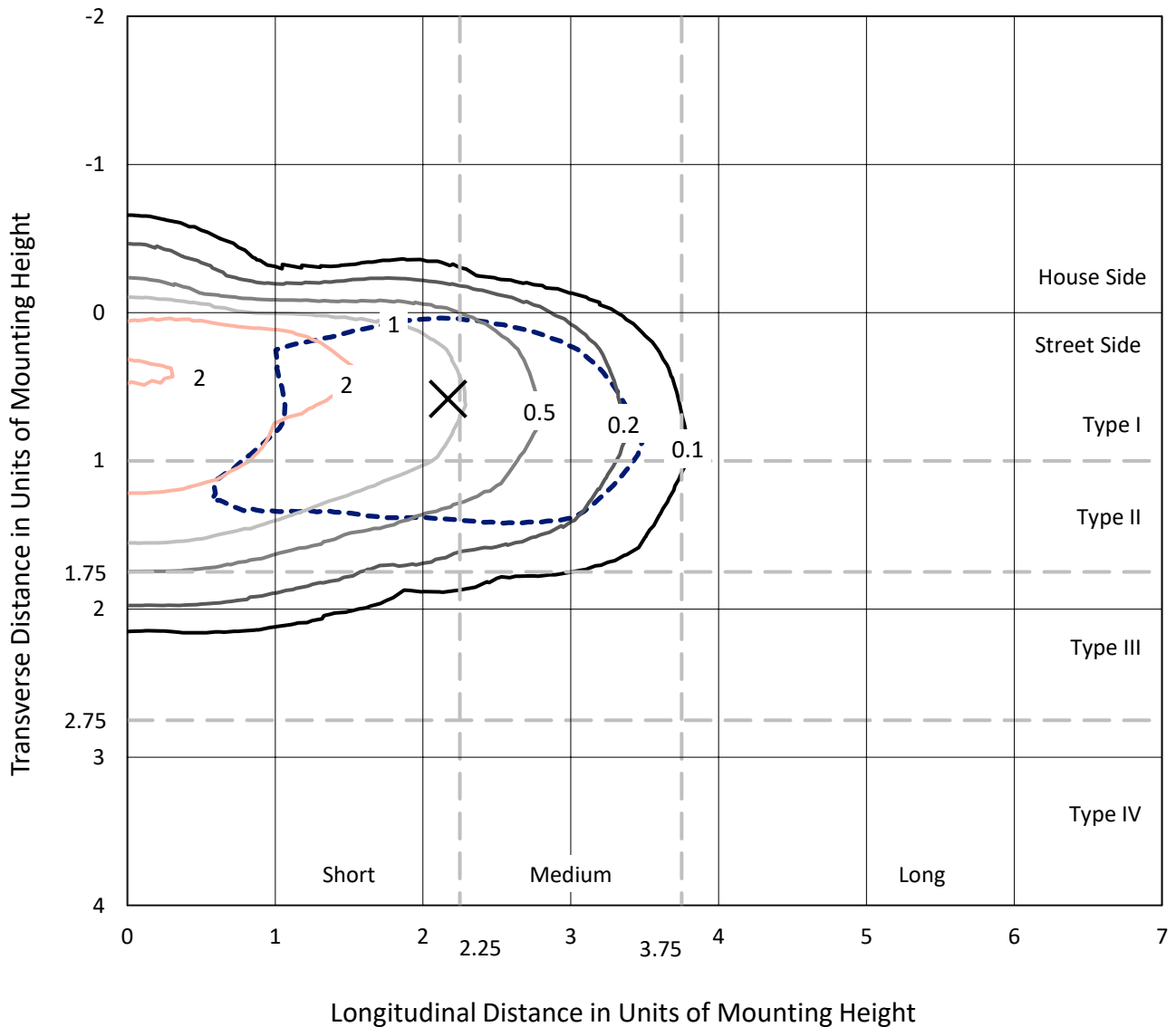
Input Watts (W): 108  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

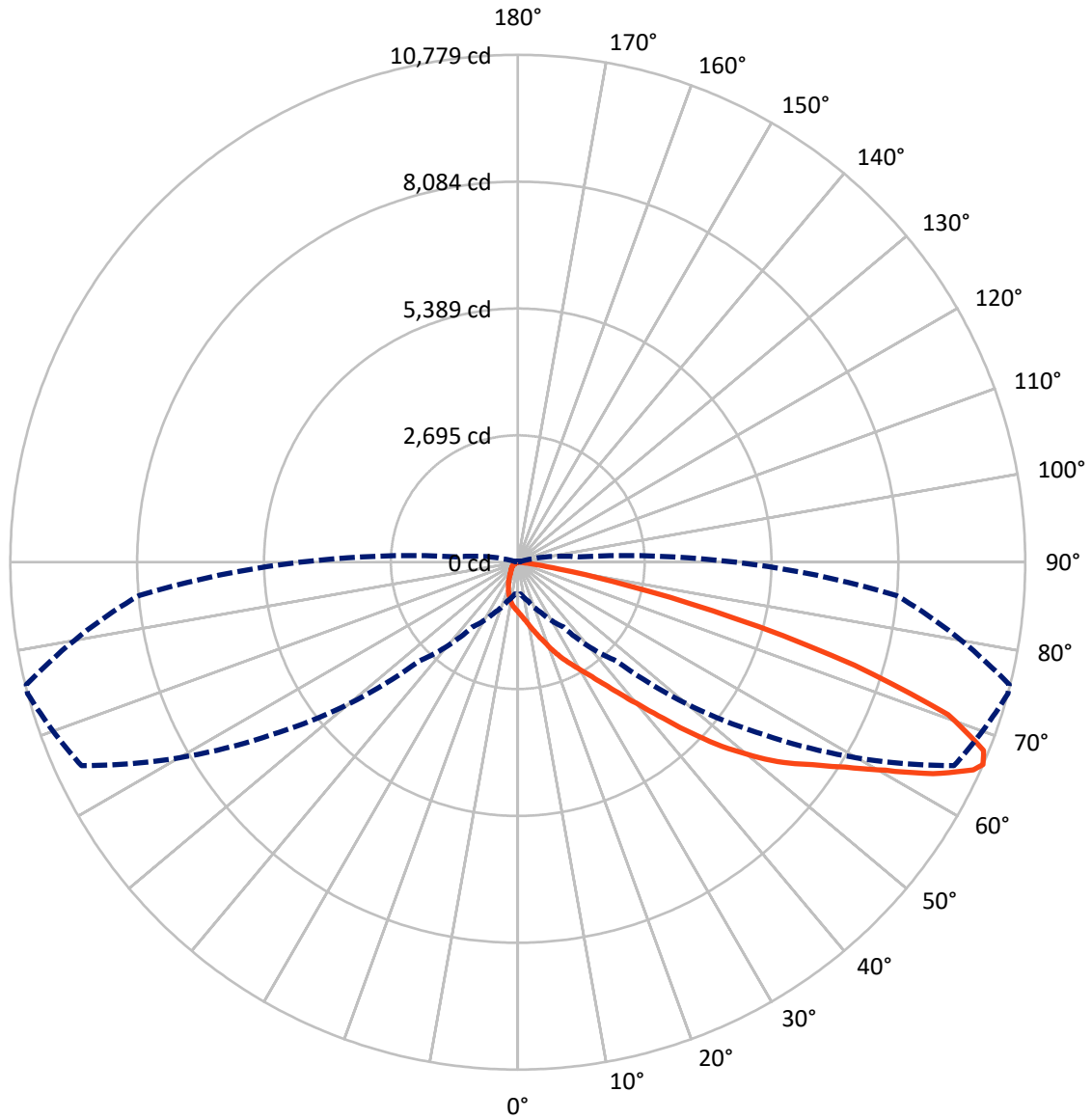
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral    - - - Horizontal Cone Through 66-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	594.2	0.0	594.2
	% Fixture	6.2	0.0	6.2
<b>Street Side</b>	Lumens	9030.8	0.0	9030.8
	% Fixture	93.8	0.0	93.8
<b>Total</b>	Lumens	9625.0	0.0	9625.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	101.5	1.1
10°-20°	298.8	3.1
20°-30°	515.9	5.4
30°-40°	930.7	9.7
40°-50°	1681.3	17.5
50°-60°	2621.1	27.2
60°-70°	2489.9	25.9
70°-80°	933.2	9.7
80°-90°	52.6	0.5
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°	9625.0	100.0
0°-180°	9625.0	100.0

**Coefficient of Utilization**



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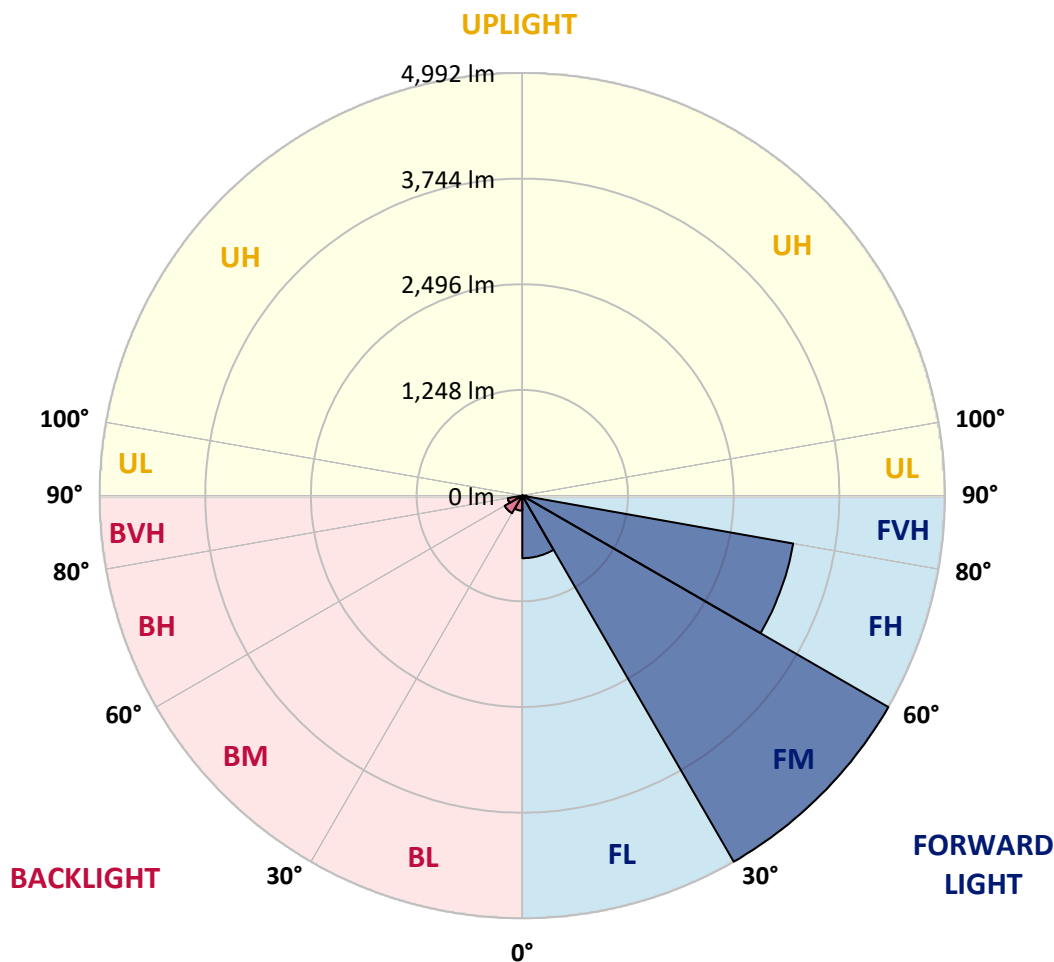
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	738.8	7.7			
FM (30°-60°)	4992.5	51.9			
FH (60°-80°)	3249.6	33.8			G2/5000
FVH (80°-90°)	49.9	0.5			G1/100
BL (0°-30°)	177.5	1.8	B1/500		
BM (30°-60°)	240.5	2.5	B1/1000		
BH (60°-80°)	173.5	1.8	B1/500		G1/500
BVH (80°-90°)	2.7	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1052.6	1052.6	1052.6	1052.6	1052.6	1052.6	1052.6	1052.6	1052.6	1052.6	1052.6
2.5°	1257.6	1241.9	1246.9	1239.8	1223.4	1199.2	1177.8	1147.2	1116.6	1111.7	1077.5
5°	1423.4	1419.1	1413.4	1392.8	1381.4	1344.4	1300.3	1247.6	1184.3	1172.9	1110.9
7.5°	1536.5	1534.4	1537.2	1526.6	1516.6	1483.2	1436.2	1364.3	1266.1	1259.7	1156.5
10°	1573.5	1579.2	1589.9	1607.0	1622.7	1612.0	1576.4	1486.7	1372.1	1353.6	1208.4
12.5°	1552.2	1558.6	1584.2	1629.8	1680.3	1709.5	1695.2	1629.8	1484.6	1469.6	1266.8
15°	1497.4	1505.2	1541.5	1612.0	1702.4	1784.9	1820.5	1773.5	1615.5	1591.3	1337.3
17.5°	1416.3	1427.6	1479.6	1572.8	1696.7	1839.0	1939.4	1923.7	1755.0	1732.3	1414.1
20°	1355.1	1363.6	1407.7	1514.5	1672.5	1868.9	2052.5	2096.6	1927.3	1888.1	1504.5
22.5°	1395.6	1398.5	1413.4	1477.5	1629.1	1876.7	2152.1	2276.7	2110.2	2075.3	1598.5
25°	1594.2	1565.7	1550.8	1536.5	1619.8	1869.6	2242.5	2464.6	2292.4	2255.3	1691.7
27.5°	1907.3	1894.5	1819.1	1718.0	1698.8	1878.9	2302.3	2642.5	2463.9	2424.0	1782.8
30°	2248.2	2226.2	2179.9	2031.9	1883.1	1944.3	2345.7	2815.4	2666.7	2614.0	1866.1
32.5°	2561.4	2575.6	2506.6	2354.3	2182.0	2083.8	2402.0	3004.0	2899.4	2833.9	1962.8
35°	2926.5	2954.9	2848.9	2703.0	2501.6	2335.8	2511.6	3216.8	3194.8	3112.2	2112.3
37.5°	3297.3	3314.3	3249.6	3044.6	2863.1	2656.0	2717.9	3479.5	3558.4	3488.0	2290.9
40°	3609.0	3632.5	3584.8	3402.6	3209.0	3026.8	3017.6	3765.5	3991.2	3918.6	2557.1
42.5°	3847.4	3865.2	3866.6	3737.8	3563.4	3480.9	3399.7	4130.6	4533.5	4449.5	2866.0
45°	4148.4	4174.1	4159.1	4071.6	3941.3	3926.4	3884.4	4571.9	5182.5	5076.5	3266.7
47.5°	4613.9	4631.0	4594.0	4490.8	4358.4	4381.9	4357.0	5066.5	5844.4	5753.3	3681.6
50°	4937.0	4965.5	5018.1	5059.4	4963.3	4876.5	4802.5	5528.4	6472.8	6391.0	4105.7
52.5°	4933.4	4980.4	5146.9	5354.8	5564.7	5538.4	5325.6	6038.7	7072.8	6971.7	4504.3
55°	4601.1	4692.2	4937.0	5305.6	5887.1	6176.8	6080.0	6629.4	7590.9	7522.6	4966.2
57.5°	3915.0	3970.5	4310.7	4826.0	5707.0	6477.1	6953.9	7430.0	8212.2	8180.2	5683.6
60°	2633.3	2658.2	3095.8	3732.8	4858.7	6177.5	7594.4	8398.6	8977.3	8961.6	6521.2
62.5°	1508.8	1519.5	1836.9	2374.2	3457.4	5235.2	7648.5	9593.6	9894.6	9903.2	7490.5
65°	812.0	817.7	1073.9	1393.5	2103.8	3731.4	6877.8	10248.3	10636.2	10652.6	8091.2
66°	701.0	674.0	854.7	1187.8	1673.9	2969.9	6390.3	10224.8	10778.5	10760.7	8069.8
67.5°	533.1	557.3	682.5	913.1	1240.5	2111.6	5275.8	9770.1	10670.4	10614.9	7741.8
70°	381.5	391.4	486.1	651.2	844.8	1158.6	3371.3	8114.7	9698.2	9623.5	6744.7
72.5°	246.2	256.9	344.5	471.1	610.6	632.7	1887.4	5862.9	7477.0	7466.3	5079.3
75°	175.8	185.8	227.7	337.3	459.0	391.4	908.8	3951.3	4753.4	4721.3	3142.1
77.5°	127.4	132.4	152.3	220.6	328.1	280.4	421.3	2110.2	2366.4	2478.1	1388.5
80°	73.3	77.6	106.0	134.5	222.0	191.4	201.4	846.9	873.2	831.3	434.1
82.5°	36.3	41.3	63.3	91.8	138.8	128.8	92.5	254.8	269.0	261.9	109.6
85°	8.5	10.7	35.6	60.5	67.6	57.6	44.8	74.7	92.5	90.4	42.0
87.5°	0.7	1.4	12.8	10.7	11.4	19.2	15.7	19.2	29.9	27.8	14.9
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°	1052.6	1052.6	1052.6	1052.6	1052.6	1052.6	1052.6	1052.6	1052.6	1052.6	1052.6
2.5°	1061.8	1048.3	1009.2	970.7	938.7	905.3	874.7	856.9	849.8	841.9	845.5
5°	1076.8	1044.0	965.1	896.7	829.8	772.9	727.3	698.2	683.9	681.8	678.2
7.5°	1096.7	1040.5	918.1	811.3	723.8	660.4	608.5	566.5	553.7	542.3	533.1
10°	1120.9	1034.1	859.7	721.7	628.4	548.7	480.4	430.6	405.0	397.8	402.8
12.5°	1146.5	1022.0	798.5	639.1	531.6	429.9	366.5	341.6	334.5	331.6	332.4
15°	1172.2	1007.0	734.5	559.4	423.5	343.0	313.9	307.4	304.6	303.2	301.8
17.5°	1195.6	982.8	662.6	481.8	343.0	293.2	282.5	276.8	271.2	269.0	265.5
20°	1223.4	955.1	597.8	395.0	290.4	265.5	252.6	242.0	233.4	227.7	227.0
22.5°	1249.7	919.5	530.2	327.4	264.7	238.4	217.8	206.4	196.4	189.3	191.4
25°	1264.0	876.1	469.7	285.4	241.3	211.4	188.6	174.4	163.7	160.1	159.4
27.5°	1264.0	822.7	410.6	261.2	219.9	187.2	163.7	150.2	143.0	138.1	138.8
30°	1254.0	763.6	355.8	242.7	201.4	165.8	143.8	131.7	126.0	122.4	121.7
32.5°	1246.2	707.4	308.9	224.9	182.2	147.3	128.1	118.9	113.2	109.6	109.6
35°	1258.3	659.0	272.6	207.1	164.4	133.1	116.0	107.5	101.8	98.9	98.2
37.5°	1290.3	614.9	244.8	187.9	148.0	121.0	107.5	97.5	91.8	88.2	86.8
40°	1369.3	590.0	224.2	170.1	132.4	111.0	97.5	88.2	81.1	77.6	76.9
42.5°	1496.0	590.7	204.3	153.7	120.3	102.5	89.0	78.3	70.5	66.9	66.2
45°	1686.7	617.7	188.6	138.1	109.6	93.2	79.7	68.3	61.2	57.6	57.6
47.5°	1915.2	670.4	175.1	124.5	99.6	84.7	70.5	59.1	52.0	49.1	49.1
50°	2162.8	738.7	161.6	110.3	91.1	75.4	60.5	51.2	45.5	43.4	43.4
52.5°	2415.5	821.3	148.0	98.9	81.8	65.5	52.0	45.5	40.6	39.1	38.4
55°	2747.1	926.6	133.8	86.8	71.9	56.2	46.3	39.9	34.2	32.0	31.3
57.5°	3257.4	1085.3	118.1	76.2	59.1	47.0	39.9	33.4	27.0	23.5	22.8
60°	3873.0	1278.9	101.8	66.9	47.7	38.4	32.0	25.6	19.9	15.7	14.9
62.5°	4449.5	1402.0	86.1	56.2	37.7	29.2	22.8	19.2	14.2	10.0	9.3
65°	4704.3	1360.8	71.2	45.5	29.9	20.6	14.9	13.5	8.5	4.3	3.6
66°	4619.6	1299.5	65.5	41.3	27.0	17.8	12.8	11.4	6.4	2.1	2.1
67.5°	4369.8	1155.1	56.9	35.6	23.5	14.2	10.0	8.5	3.6	0.7	0.0
70°	3744.2	934.4	44.8	26.3	17.1	10.0	5.7	4.3	2.1	0.0	0.0
72.5°	2875.9	696.0	35.6	19.9	12.1	5.7	2.8	1.4	2.1	0.0	0.0
75°	1762.1	397.8	27.8	14.9	7.8	3.6	2.1	0.0	2.1	0.7	0.0
77.5°	782.1	178.6	18.5	10.0	5.7	2.8	1.4	0.0	1.4	0.7	0.0
80°	197.8	58.4	10.7	7.1	4.3	2.1	0.7	0.0	1.4	1.4	0.7
82.5°	54.1	21.4	7.8	5.7	3.6	2.1	0.7	0.0	1.4	1.4	1.4
85°	21.4	10.0	7.1	5.7	4.3	2.1	0.7	0.0	1.4	1.4	1.4
87.5°	10.0	7.1	7.1	6.4	5.0	2.1	0.7	0.0	1.4	0.7	1.4
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)