

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: P458882

Luminaire Tested: **GALN-SA4A-735-U-T3-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P458882  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA4A-735-U-T3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12373 lumens  
Efficiency: N/A  
Efficacy: 102.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2

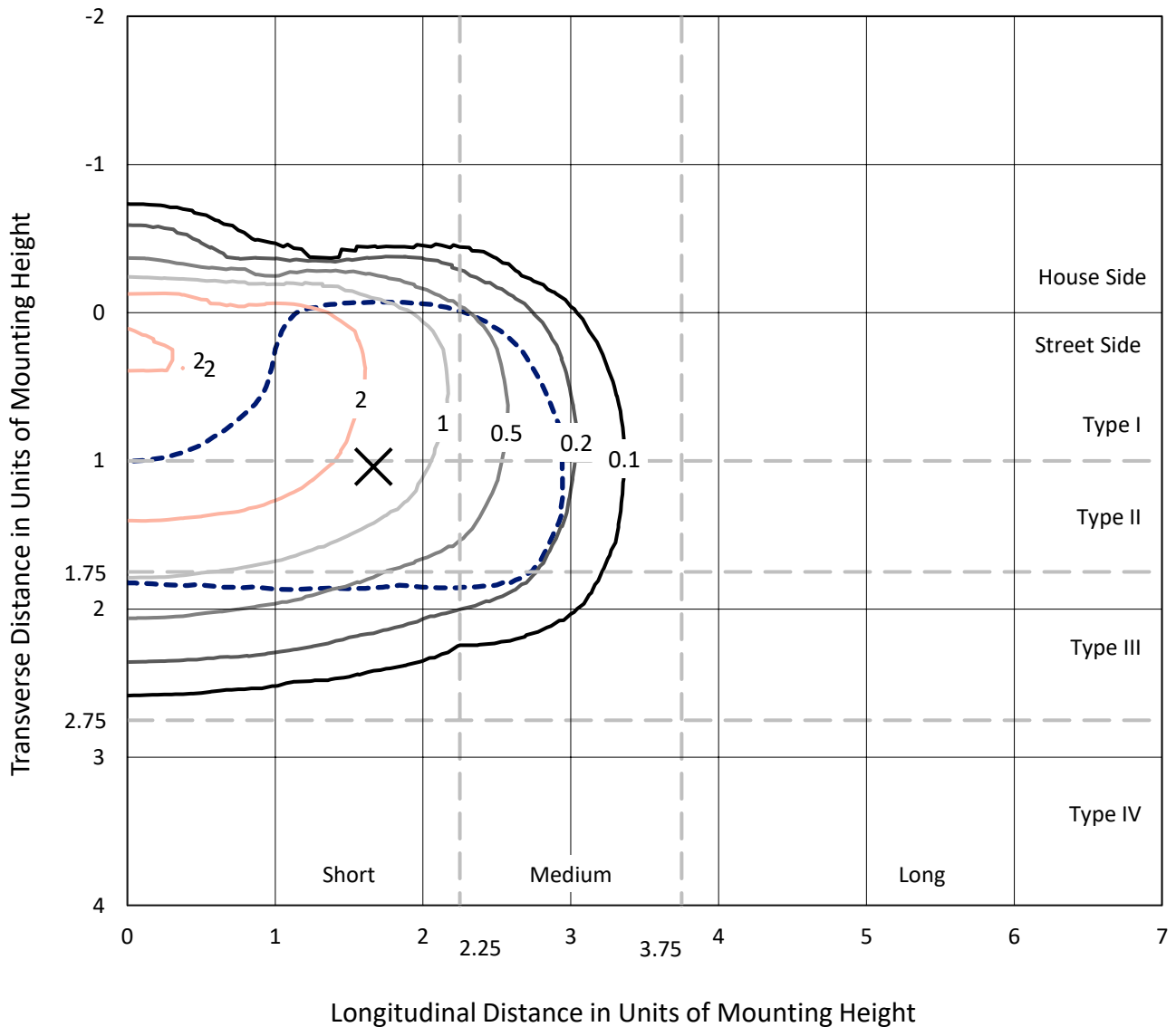
Input Watts (W): 121  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

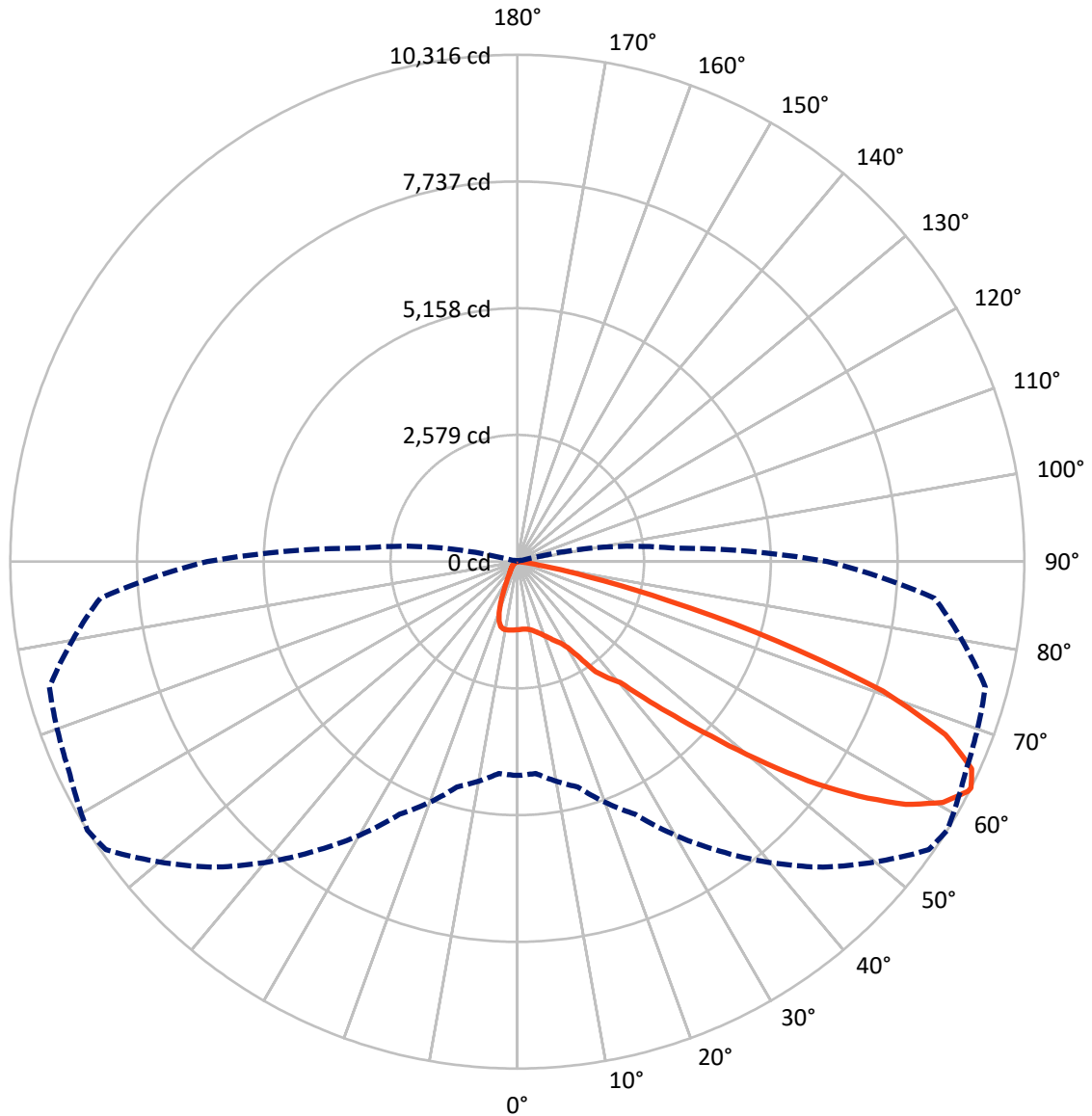
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral    - - - Horizontal Cone Through 63-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1281.1	0.0	1281.1
	% Fixture	10.4	0.0	10.4
<b>Street Side</b>	Lumens	11091.9	0.0	11091.9
	% Fixture	89.6	0.0	89.6
<b>Total</b>	Lumens	12373.0	0.0	12373.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	129.7	1.0
10°-20°	353.2	2.9
20°-30°	613.0	5.0
30°-40°	1126.4	9.1
40°-50°	2120.4	17.1
50°-60°	3626.8	29.3
60°-70°	3472.7	28.1
70°-80°	885.5	7.2
80°-90°	45.3	0.4
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°	12373.0	100.0
0°-180°	12373.0	100.0

**Coefficient of Utilization**



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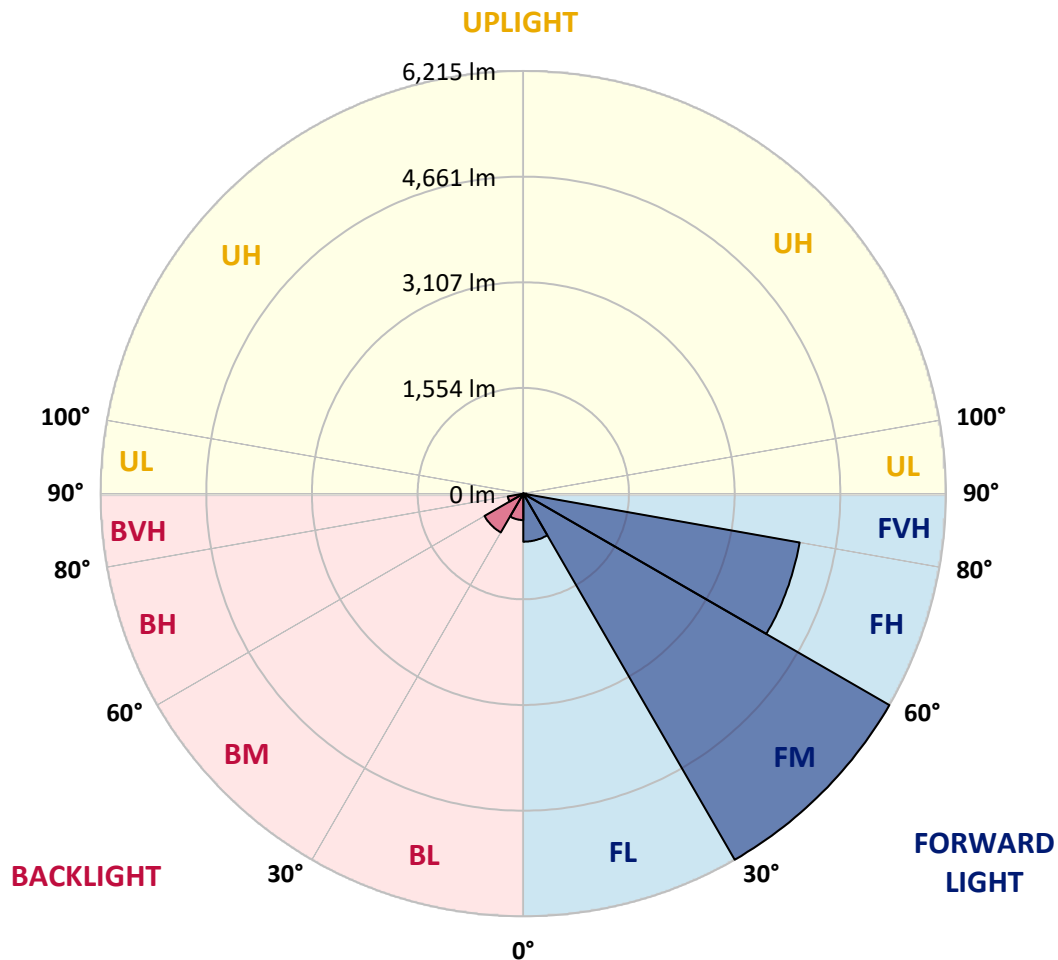
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	707.3	5.7			
FM (30°-60°)	6214.7	50.2			
FH (60°-80°)	4126.3	33.3			G2/5000
FVH (80°-90°)	43.5	0.4			G1/100
BL (0°-30°)	388.5	3.1	B1/500		
BM (30°-60°)	658.9	5.3	B1/1000		
BH (60°-80°)	231.9	1.9	B1/500		G1/500
BVH (80°-90°)	1.8	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 III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1385.2	1385.2	1385.2	1385.2	1385.2	1385.2	1385.2	1385.2	1385.2	1385.2	1385.2
2.5°	1350.7	1355.4	1360.1	1361.9	1368.4	1375.0	1379.6	1378.7	1386.1	1389.9	1389.9
5°	1296.7	1296.7	1308.8	1320.0	1338.6	1357.3	1375.0	1378.7	1392.7	1405.7	1410.4
7.5°	1251.1	1253.9	1263.2	1283.7	1308.8	1341.4	1376.8	1385.2	1409.4	1438.3	1450.4
10°	1229.6	1231.5	1243.6	1265.0	1296.7	1341.4	1390.8	1406.6	1443.9	1489.5	1506.3
12.5°	1225.0	1227.8	1239.9	1264.1	1300.4	1354.5	1421.5	1438.3	1492.3	1551.0	1576.2
15°	1233.4	1235.2	1247.3	1273.4	1313.5	1377.8	1462.5	1485.8	1550.1	1618.1	1650.7
17.5°	1263.2	1261.3	1269.7	1291.1	1335.8	1406.6	1511.9	1539.8	1615.3	1708.5	1729.9
20°	1389.9	1377.8	1370.3	1351.7	1369.4	1447.6	1571.5	1612.5	1705.7	1800.7	1815.6
22.5°	1662.8	1635.8	1582.7	1510.0	1454.1	1503.5	1643.2	1690.8	1810.9	1904.1	1904.1
25°	2010.3	1975.8	1922.7	1764.3	1627.4	1595.7	1724.3	1783.9	1925.5	2019.6	1988.8
27.5°	2445.3	2418.3	2314.9	2130.4	1920.8	1756.9	1818.4	1873.3	2027.0	2140.7	2076.4
30°	2799.3	2786.2	2701.5	2536.6	2305.6	2066.2	1993.5	2029.8	2162.1	2293.5	2227.3
32.5°	3098.3	3098.3	3011.7	2858.0	2641.9	2429.5	2290.7	2316.7	2443.4	2595.3	2472.3
35°	3427.1	3416.0	3346.1	3199.9	2957.7	2770.4	2713.6	2749.0	2863.6	2976.3	2673.5
37.5°	3772.8	3769.0	3696.4	3554.8	3357.3	3121.6	2988.4	2997.7	3056.4	3125.3	2909.2
40°	4148.2	4153.8	4058.7	3971.2	3784.9	3543.6	3288.3	3229.7	3284.6	3479.3	3344.2
42.5°	4591.6	4578.5	4537.5	4418.3	4268.3	4123.9	3817.5	3796.0	3844.5	4053.1	3906.9
45°	5106.7	5125.4	5054.6	4988.4	4887.8	4767.6	4511.5	4474.2	4527.3	4851.5	4643.7
47.5°	5622.8	5605.1	5650.7	5638.6	5692.7	5603.2	5376.9	5300.5	5428.1	5735.5	5430.0
50°	6015.9	6035.5	6130.5	6269.3	6501.2	6551.5	6334.5	6308.4	6365.2	6562.7	6133.3
52.5°	6271.2	6336.4	6485.4	6842.2	7260.5	7585.6	7420.7	7406.7	7383.4	7436.5	6805.9
55°	6437.9	6504.0	6698.7	7224.1	7944.2	8472.4	8480.8	8421.2	8267.4	8229.3	7434.6
57.5°	6335.4	6348.5	6626.1	7328.5	8323.3	9104.9	9378.8	9319.2	9035.0	8890.7	7989.8
60°	5694.5	5721.5	6108.1	6933.5	8158.5	9311.7	9974.0	9947.0	9635.9	9472.9	8422.1
62.5°	4559.0	4637.2	5035.0	5955.4	7391.8	8963.3	10215.3	10291.7	10049.5	9825.0	8558.1
63°	4350.3	4325.2	4745.3	5670.3	7188.7	8791.0	10219.0	10315.9	10068.1	9858.5	8520.8
65°	3220.3	3295.8	3568.7	4471.4	5982.4	7988.9	9988.9	10160.3	9999.2	9710.4	8108.2
67.5°	1808.1	1804.4	2106.2	2926.0	4187.3	6266.5	9032.2	9394.6	9361.1	8713.7	6721.1
70°	885.0	898.9	1022.8	1516.6	2428.5	4323.3	7505.4	7896.7	7908.8	6844.1	4647.5
72.5°	400.6	407.1	495.6	738.7	1248.3	2301.8	5171.9	5545.5	5476.5	4361.5	2566.4
75°	211.5	225.4	272.9	371.7	601.8	949.2	2813.3	3174.7	3030.3	1992.6	944.6
77.5°	156.5	161.2	185.4	236.6	322.3	369.8	1213.8	1443.9	1352.6	721.0	313.0
80°	114.6	118.3	137.9	167.7	203.1	188.2	457.4	524.5	470.4	245.0	95.9
82.5°	69.9	70.8	100.6	124.8	127.6	105.3	150.9	162.1	169.5	137.9	52.2
85°	25.2	31.7	68.0	90.4	75.5	53.1	63.3	69.9	76.4	87.6	30.7
87.5°	2.8	3.7	32.6	43.8	21.4	19.6	23.3	26.1	27.9	32.6	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°	1385.2	1385.2	1385.2	1385.2	1385.2	1385.2	1385.2	1385.2	1385.2	1385.2	1385.2
2.5°	1393.6	1397.3	1394.5	1389.9	1388.9	1386.1	1380.5	1380.5	1380.5	1382.4	1380.5
5°	1414.1	1416.9	1410.4	1401.0	1390.8	1377.8	1363.8	1355.4	1354.5	1352.6	1347.9
7.5°	1453.2	1456.9	1442.0	1419.7	1391.7	1360.1	1330.2	1302.3	1289.3	1279.0	1279.0
10°	1510.0	1513.8	1483.9	1443.9	1388.0	1323.7	1252.9	1188.6	1138.3	1115.1	1109.5
12.5°	1578.0	1579.9	1530.5	1460.7	1368.4	1244.5	1093.6	953.0	855.2	810.4	805.8
15°	1652.6	1639.5	1574.3	1467.2	1312.5	1081.5	820.7	648.4	546.8	517.0	528.2
17.5°	1728.0	1703.8	1607.8	1456.9	1186.8	820.7	551.5	442.5	410.8	402.4	402.4
20°	1798.8	1765.3	1632.1	1412.2	968.8	565.4	408.9	382.9	377.3	371.7	372.6
22.5°	1869.6	1818.4	1653.5	1312.5	721.9	404.3	366.1	357.7	350.3	342.8	341.9
25°	1938.5	1867.7	1661.9	1128.1	491.9	347.5	334.4	323.2	308.3	300.0	298.1
27.5°	2010.3	1927.4	1656.3	895.2	358.6	311.1	298.1	282.3	264.6	249.7	249.7
30°	2148.1	2041.0	1636.7	643.7	301.8	273.9	257.1	232.0	212.4	197.5	196.6
32.5°	2336.3	2189.1	1569.7	452.7	268.3	241.3	216.1	188.2	167.7	156.5	156.5
35°	2504.0	2338.2	1443.9	333.5	241.3	209.6	178.9	151.8	136.0	128.6	125.8
37.5°	2759.2	2556.2	1270.6	271.1	215.2	181.7	150.0	124.8	111.8	106.2	106.2
40°	3142.1	2822.6	1058.2	237.5	190.0	154.6	124.8	105.3	95.0	88.5	88.5
42.5°	3617.2	3148.6	843.0	213.3	166.7	133.2	104.3	89.4	80.1	75.5	74.5
45°	4215.2	3492.4	649.3	191.0	148.1	113.6	88.5	75.5	66.1	63.3	64.3
47.5°	4839.4	3795.1	503.0	171.4	128.6	95.9	75.5	65.2	58.7	55.0	55.0
50°	5372.2	4003.8	381.9	149.0	113.6	81.0	66.1	58.7	53.1	51.2	50.3
52.5°	5817.5	4064.3	292.5	129.5	99.7	69.9	58.7	53.1	48.4	45.6	45.6
55°	6196.6	4011.2	229.2	109.0	83.8	60.6	52.2	47.5	41.9	39.1	38.2
57.5°	6418.3	3840.8	175.1	90.4	68.0	50.3	45.6	40.1	33.5	28.9	28.9
60°	6530.1	3593.0	134.1	74.5	52.2	40.1	37.3	29.8	23.3	19.6	18.6
62.5°	6396.0	3264.1	101.5	58.7	39.1	29.8	25.2	21.4	14.9	11.2	11.2
63°	6313.1	3169.1	97.8	55.9	36.3	27.9	23.3	19.6	13.0	10.2	9.3
65°	5755.1	2754.6	80.1	44.7	28.9	19.6	15.8	14.0	9.3	4.7	3.7
67.5°	4570.2	2107.2	63.3	33.5	20.5	14.0	9.3	8.4	2.8	0.0	0.0
70°	3089.9	1361.0	49.4	24.2	14.0	8.4	4.7	3.7	0.9	0.0	0.0
72.5°	1611.6	697.7	38.2	17.7	8.4	5.6	2.8	0.9	0.0	0.0	0.0
75°	570.1	237.5	27.9	11.2	5.6	2.8	0.9	0.0	0.0	0.0	0.0
77.5°	172.3	88.5	17.7	8.4	3.7	1.9	0.0	0.0	0.0	0.0	0.0
80°	60.6	32.6	10.2	5.6	2.8	0.9	0.0	0.0	0.0	0.0	0.0
82.5°	29.8	15.8	6.5	4.7	2.8	0.9	0.0	0.0	0.0	0.0	0.0
85°	16.8	10.2	5.6	4.7	2.8	1.9	0.0	0.0	0.0	0.0	0.0
87.5°	12.1	7.5	5.6	4.7	3.7	1.9	0.9	0.0	0.0	0.0	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)