

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: P452154

Luminaire Tested: **GALN-SA3A-750-U-T3-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P452154  
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-SA3A-750-U-T3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 5000K, 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: 10023 lumens  
Efficiency: N/A  
Efficacy: 107.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2

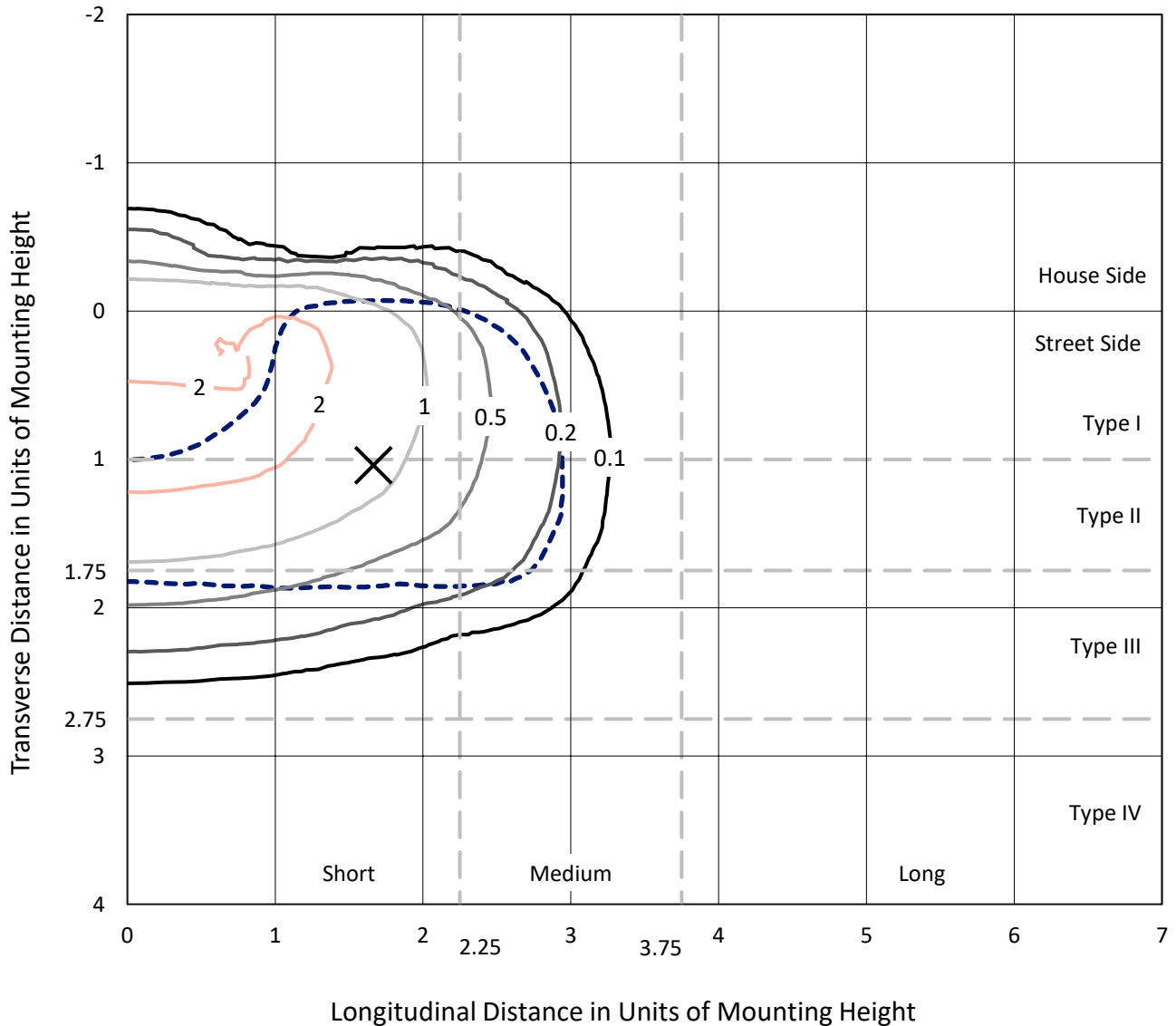
Input Watts (W): 93  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

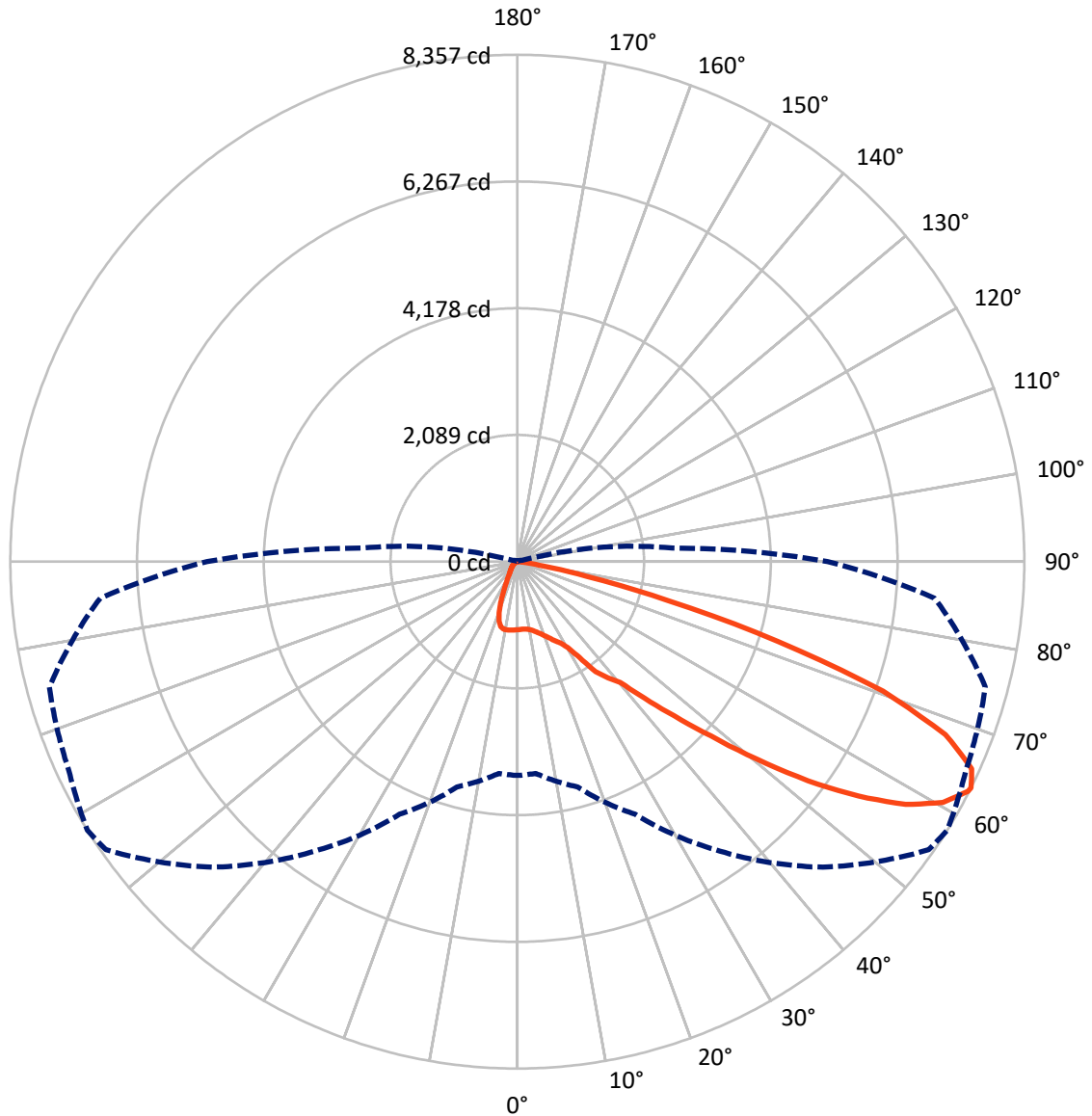
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 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	1037.8	0.0	1037.8
	% Fixture	10.4	0.0	10.4
<b>Street Side</b>	Lumens	8985.2	0.0	8985.2
	% Fixture	89.6	0.0	89.6
<b>Total</b>	Lumens	10023.0	0.0	10023.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	105.0	1.0
10°-20°	286.1	2.9
20°-30°	496.5	5.0
30°-40°	912.5	9.1
40°-50°	1717.7	17.1
50°-60°	2938.0	29.3
60°-70°	2813.1	28.1
70°-80°	717.4	7.2
80°-90°	36.7	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°	10023.0	100.0
0°-180°	10023.0	100.0



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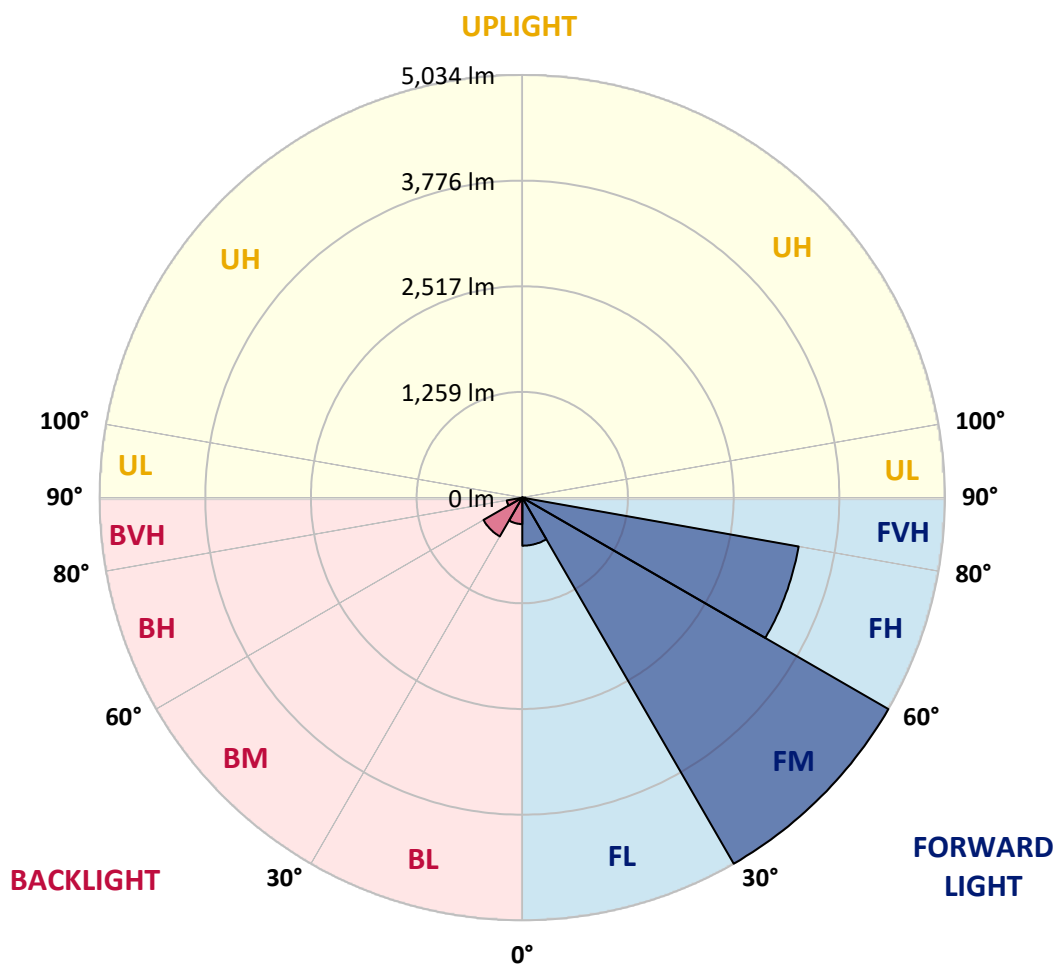
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	573.0	5.7			
FM	(30°-60°)	5034.4	50.2			
FH	(60°-80°)	3342.6	33.3			G2/5000
FVH	(80°-90°)	35.3	0.4			G1/100
BL	(0°-30°)	314.7	3.1	B1/500		
BM	(30°-60°)	533.8	5.3	B1/1000		
BH	(60°-80°)	187.9	1.9	B1/500		G1/500
BVH	(80°-90°)	1.4	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°	1122.1	1122.1	1122.1	1122.1	1122.1	1122.1	1122.1	1122.1	1122.1	1122.1	1122.1
2.5°	1094.2	1098.0	1101.7	1103.2	1108.5	1113.8	1117.6	1116.8	1122.9	1125.9	1125.9
5°	1050.4	1050.4	1060.2	1069.3	1084.4	1099.5	1113.8	1116.8	1128.2	1138.7	1142.5
7.5°	1013.4	1015.7	1023.3	1039.9	1060.2	1086.6	1115.3	1122.1	1141.7	1165.1	1174.9
10°	996.1	997.6	1007.4	1024.8	1050.4	1086.6	1126.6	1139.5	1169.7	1206.6	1220.2
12.5°	992.3	994.6	1004.4	1024.0	1053.4	1097.2	1151.5	1165.1	1208.9	1256.4	1276.8
15°	999.1	1000.6	1010.4	1031.6	1064.0	1116.1	1184.7	1203.6	1255.7	1310.8	1337.2
17.5°	1023.3	1021.7	1028.5	1045.9	1082.1	1139.5	1224.7	1247.4	1308.5	1384.0	1401.3
20°	1125.9	1116.1	1110.0	1094.9	1109.3	1172.7	1273.0	1306.2	1381.7	1458.7	1470.7
22.5°	1347.0	1325.1	1282.1	1223.2	1178.0	1217.9	1331.1	1369.6	1467.0	1542.4	1542.4
25°	1628.5	1600.5	1557.5	1429.2	1318.3	1292.7	1396.8	1445.1	1559.8	1636.0	1611.1
27.5°	1980.9	1959.0	1875.2	1725.8	1556.0	1423.2	1473.0	1517.5	1642.0	1734.1	1682.0
30°	2267.6	2257.1	2188.4	2054.8	1867.7	1673.7	1614.9	1644.3	1751.5	1857.9	1804.3
32.5°	2509.9	2509.9	2439.7	2315.2	2140.1	1968.0	1855.6	1876.7	1979.4	2102.4	2002.8
35°	2776.2	2767.2	2710.6	2592.1	2395.9	2244.2	2198.2	2226.9	2319.7	2411.0	2165.7
37.5°	3056.2	3053.2	2994.3	2879.6	2719.6	2528.7	2420.8	2428.4	2475.9	2531.7	2356.7
40°	3360.3	3364.8	3287.9	3216.9	3066.0	2870.6	2663.8	2616.3	2660.8	2818.5	2709.1
42.5°	3719.5	3708.9	3675.7	3579.1	3457.6	3340.7	3092.4	3075.1	3114.3	3283.3	3164.9
45°	4136.8	4151.9	4094.5	4041.0	3959.5	3862.1	3654.6	3624.4	3667.4	3930.0	3761.8
47.5°	4554.9	4540.5	4577.5	4567.7	4611.5	4539.0	4355.6	4293.8	4397.1	4646.2	4398.7
50°	4873.3	4889.2	4966.1	5078.6	5266.5	5307.2	5131.4	5110.3	5156.3	5316.3	4968.4
52.5°	5080.1	5132.9	5253.6	5542.7	5881.5	6144.8	6011.3	5999.9	5981.1	6024.1	5513.2
55°	5215.1	5268.7	5426.4	5852.0	6435.4	6863.2	6870.0	6821.7	6697.2	6666.3	6022.6
57.5°	5132.1	5142.7	5367.6	5936.6	6742.5	7375.6	7597.5	7549.2	7319.0	7202.1	6472.3
60°	4613.0	4634.8	4948.0	5616.6	6608.9	7543.1	8079.7	8057.8	7805.7	7673.7	6822.5
62.5°	3693.1	3756.5	4078.7	4824.3	5987.9	7260.9	8275.1	8337.0	8140.8	7958.9	6932.7
63°	3524.1	3503.7	3844.0	4593.3	5823.4	7121.3	8278.1	8356.6	8155.9	7986.1	6902.5
65°	2608.7	2669.8	2890.9	3622.2	4846.1	6471.6	8091.7	8230.6	8100.0	7866.1	6568.2
67.5°	1464.7	1461.7	1706.2	2370.2	3392.0	5076.3	7316.8	7610.3	7583.1	7058.7	5444.6
70°	716.9	728.2	828.6	1228.5	1967.3	3502.2	6079.9	6396.9	6406.7	5544.2	3764.8
72.5°	324.5	329.8	401.5	598.4	1011.2	1864.7	4189.6	4492.2	4436.4	3533.1	2079.0
75°	171.3	182.6	221.1	301.1	487.5	769.0	2278.9	2571.7	2454.8	1614.1	765.2
77.5°	126.8	130.5	150.2	191.7	261.1	299.6	983.3	1169.7	1095.7	584.1	253.6
80°	92.8	95.8	111.7	135.8	164.5	152.4	370.5	424.8	381.1	198.5	77.7
82.5°	56.6	57.4	81.5	101.1	103.4	85.3	122.2	131.3	137.3	111.7	42.3
85°	20.4	25.7	55.1	73.2	61.1	43.0	51.3	56.6	61.9	70.9	24.9
87.5°	2.3	3.0	26.4	35.5	17.4	15.8	18.9	21.1	22.6	26.4	12.1
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°	1122.1	1122.1	1122.1	1122.1	1122.1	1122.1	1122.1	1122.1	1122.1	1122.1	1122.1
2.5°	1128.9	1131.9	1129.7	1125.9	1125.1	1122.9	1118.3	1118.3	1118.3	1119.8	1118.3
5°	1145.5	1147.8	1142.5	1134.9	1126.6	1116.1	1104.8	1098.0	1097.2	1095.7	1091.9
7.5°	1177.2	1180.2	1168.1	1150.0	1127.4	1101.7	1077.6	1055.0	1044.4	1036.1	1036.1
10°	1223.2	1226.3	1202.1	1169.7	1124.4	1072.3	1015.0	962.9	922.1	903.3	898.7
12.5°	1278.3	1279.8	1239.8	1183.2	1108.5	1008.2	885.9	772.0	692.7	656.5	652.7
15°	1338.7	1328.1	1275.3	1188.5	1063.3	876.1	664.8	525.2	443.0	418.8	427.9
17.5°	1399.8	1380.2	1302.5	1180.2	961.4	664.8	446.7	358.4	332.8	326.0	326.0
20°	1457.2	1430.0	1322.1	1144.0	784.8	458.1	331.3	310.1	305.6	301.1	301.8
22.5°	1514.5	1473.0	1339.4	1063.3	584.8	327.5	296.6	289.8	283.7	277.7	276.9
25°	1570.4	1513.0	1346.2	913.8	398.4	281.5	270.9	261.9	249.8	243.0	241.5
27.5°	1628.5	1561.3	1341.7	725.2	290.5	252.0	241.5	228.6	214.3	202.2	202.2
30°	1740.1	1653.4	1325.9	521.4	244.5	221.9	208.3	187.9	172.1	160.0	159.2
32.5°	1892.6	1773.3	1271.5	366.7	217.3	195.4	175.1	152.4	135.8	126.8	126.8
35°	2028.4	1894.1	1169.7	270.2	195.4	169.8	144.9	123.0	110.2	104.1	101.9
37.5°	2235.2	2070.7	1029.3	219.6	174.3	147.2	121.5	101.1	90.6	86.0	86.0
40°	2545.3	2286.5	857.2	192.4	153.9	125.3	101.1	85.3	77.0	71.7	71.7
42.5°	2930.2	2550.6	682.9	172.8	135.1	107.9	84.5	72.4	64.9	61.1	60.4
45°	3414.6	2829.1	526.0	154.7	120.0	92.1	71.7	61.1	53.6	51.3	52.1
47.5°	3920.2	3074.3	407.5	138.8	104.1	77.7	61.1	52.8	47.5	44.5	44.5
50°	4351.9	3243.3	309.4	120.7	92.1	65.7	53.6	47.5	43.0	41.5	40.7
52.5°	4712.6	3292.4	236.9	104.9	80.7	56.6	47.5	43.0	39.2	37.0	37.0
55°	5019.7	3249.4	185.6	88.3	67.9	49.1	42.3	38.5	34.0	31.7	30.9
57.5°	5199.3	3111.3	141.9	73.2	55.1	40.7	37.0	32.4	27.2	23.4	23.4
60°	5289.9	2910.6	108.7	60.4	42.3	32.4	30.2	24.1	18.9	15.8	15.1
62.5°	5181.2	2644.2	82.3	47.5	31.7	24.1	20.4	17.4	12.1	9.1	9.1
63°	5114.0	2567.2	79.2	45.3	29.4	22.6	18.9	15.8	10.6	8.3	7.5
65°	4662.0	2231.4	64.9	36.2	23.4	15.8	12.8	11.3	7.5	3.8	3.0
67.5°	3702.1	1706.9	51.3	27.2	16.6	11.3	7.5	6.8	2.3	0.0	0.0
70°	2503.1	1102.5	40.0	19.6	11.3	6.8	3.8	3.0	0.8	0.0	0.0
72.5°	1305.5	565.2	30.9	14.3	6.8	4.5	2.3	0.8	0.0	0.0	0.0
75°	461.8	192.4	22.6	9.1	4.5	2.3	0.8	0.0	0.0	0.0	0.0
77.5°	139.6	71.7	14.3	6.8	3.0	1.5	0.0	0.0	0.0	0.0	0.0
80°	49.1	26.4	8.3	4.5	2.3	0.8	0.0	0.0	0.0	0.0	0.0
82.5°	24.1	12.8	5.3	3.8	2.3	0.8	0.0	0.0	0.0	0.0	0.0
85°	13.6	8.3	4.5	3.8	2.3	1.5	0.0	0.0	0.0	0.0	0.0
87.5°	9.8	6.0	4.5	3.8	3.0	1.5	0.8	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)