

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: P452473

Luminaire Tested: **GALN-SA3B-830-U-T3-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P452473  
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-SA3B-830-U-T3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 3000K, 800mA 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: 9910 lumens  
Efficiency: N/A  
Efficacy: 81.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2

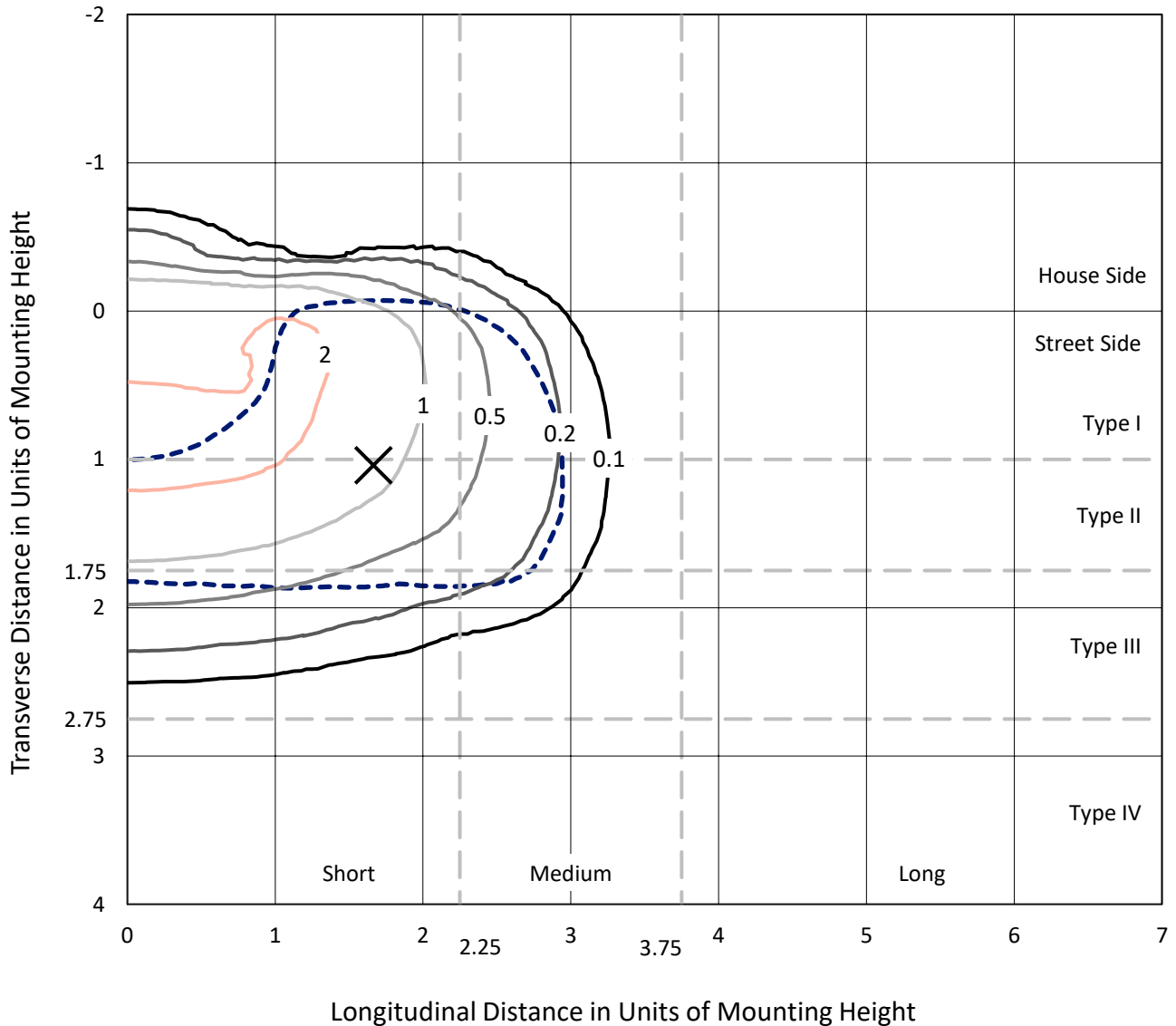
Input Watts (W): 121  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

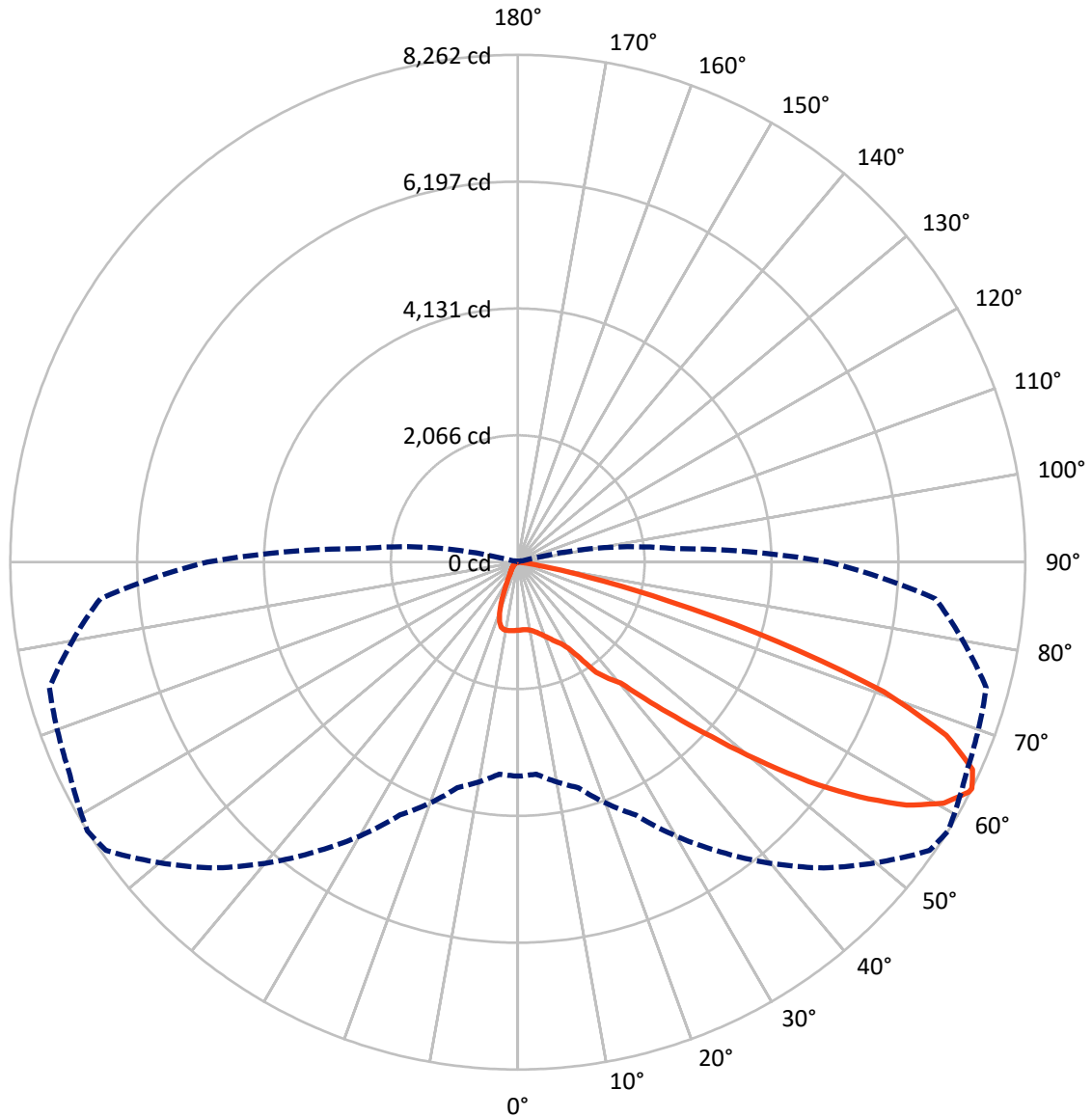
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 fc  
 Type III - Short - N/A

REPORT NUMBER: P452473  
CATALOG NUMBER: GALN-SA3B-830-U-T3-HSS

### Luminous Intensity Polar Plot



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

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CATALOG NUMBER: GALN-SA3B-830-U-T3-HSS

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1026.1	0.0	1026.1
	% Fixture	10.4	0.0	10.4
<b>Street Side</b>	Lumens	8883.9	0.0	8883.9
	% Fixture	89.6	0.0	89.6
<b>Total</b>	Lumens	9910.0	0.0	9910.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	103.9	1.0
10°-20°	282.9	2.9
20°-30°	491.0	5.0
30°-40°	902.2	9.1
40°-50°	1698.3	17.1
50°-60°	2904.9	29.3
60°-70°	2781.4	28.1
70°-80°	709.3	7.2
80°-90°	36.3	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°	9910.0	100.0
0°-180°	9910.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P452473

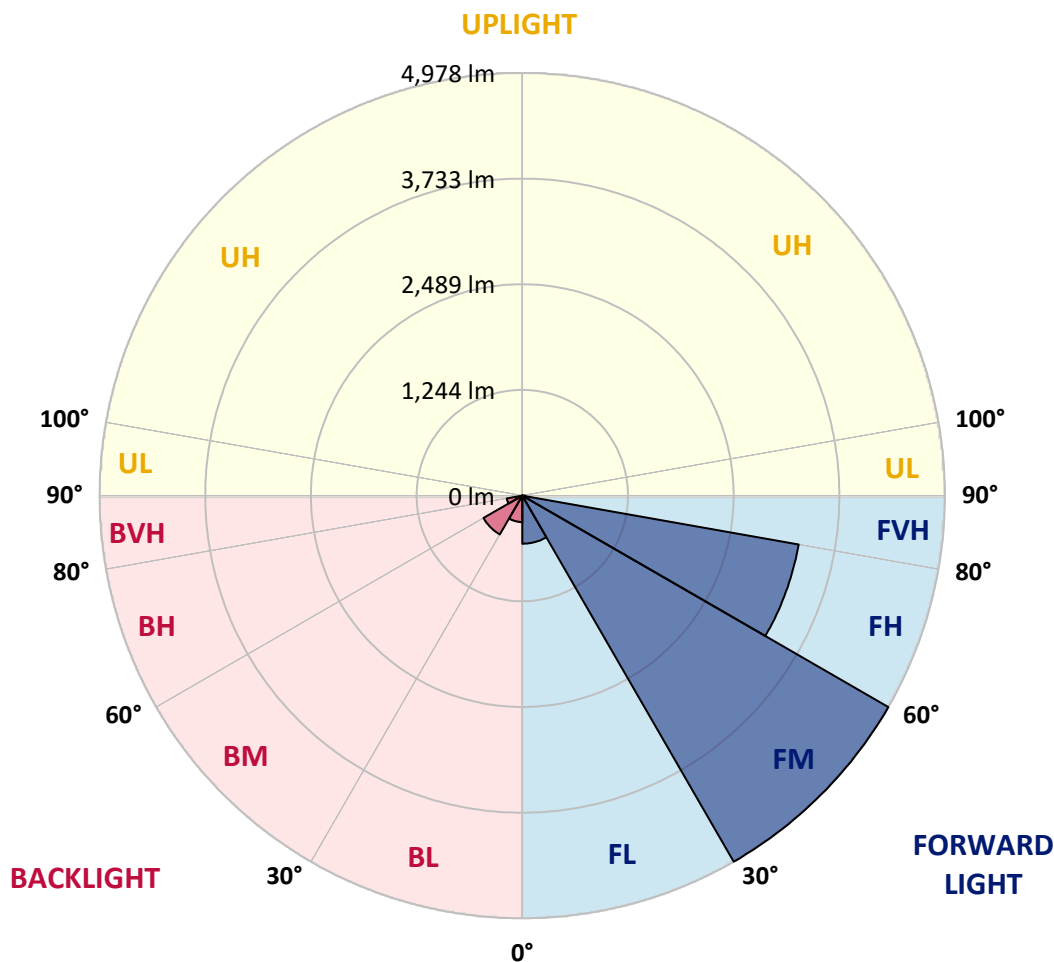
CATALOG NUMBER: GALN-SA3B-830-U-T3-HSS

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	566.5	5.7			
FM	(30°-60°)	4977.6	50.2			
FH	(60°-80°)	3304.9	33.3			G2/5000
FVH	(80°-90°)	34.9	0.4			G1/100
BL	(0°-30°)	311.2	3.1	B1/500		
BM	(30°-60°)	527.8	5.3	B1/1000		
BH	(60°-80°)	185.7	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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CATALOG NUMBER: GALN-SA3B-830-U-T3-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1109.5	1109.5	1109.5	1109.5	1109.5	1109.5	1109.5	1109.5	1109.5	1109.5	1109.5
2.5°	1081.9	1085.6	1089.3	1090.8	1096.0	1101.3	1105.0	1104.2	1110.2	1113.2	1113.2
5°	1038.6	1038.6	1048.3	1057.2	1072.2	1087.1	1101.3	1104.2	1115.4	1125.9	1129.6
7.5°	1002.0	1004.3	1011.7	1028.1	1048.3	1074.4	1102.7	1109.5	1128.9	1152.0	1161.7
10°	984.9	986.4	996.1	1013.2	1038.6	1074.4	1113.9	1126.6	1156.5	1193.0	1206.5
12.5°	981.1	983.4	993.1	1012.5	1041.6	1084.8	1138.6	1152.0	1195.3	1242.3	1262.4
15°	987.8	989.3	999.0	1019.9	1052.0	1103.5	1171.4	1190.0	1241.5	1296.0	1322.1
17.5°	1011.7	1010.2	1016.9	1034.1	1069.9	1126.6	1210.9	1233.3	1293.8	1368.4	1385.5
20°	1113.2	1103.5	1097.5	1082.6	1096.8	1159.5	1258.7	1291.5	1366.1	1442.2	1454.2
22.5°	1331.8	1310.2	1267.6	1209.4	1164.7	1204.2	1316.1	1354.2	1450.4	1525.0	1525.0
25°	1610.1	1582.5	1540.0	1413.1	1303.5	1278.1	1381.0	1428.8	1542.2	1617.6	1592.9
27.5°	1958.5	1936.9	1854.1	1706.3	1538.5	1407.2	1456.4	1500.4	1623.5	1714.6	1663.1
30°	2242.1	2231.6	2163.7	2031.7	1846.6	1654.9	1596.7	1625.8	1731.7	1836.9	1783.9
32.5°	2481.6	2481.6	2412.2	2289.1	2116.0	1945.9	1834.7	1855.6	1957.0	2078.7	1980.2
35°	2744.9	2736.0	2680.0	2562.9	2368.9	2218.9	2173.4	2201.8	2293.5	2383.8	2141.3
37.5°	3021.7	3018.8	2960.6	2847.1	2689.0	2500.2	2393.5	2401.0	2448.0	2503.2	2330.1
40°	3322.4	3326.9	3250.8	3180.7	3031.4	2838.2	2633.8	2586.8	2630.8	2786.7	2678.5
42.5°	3677.6	3667.1	3634.3	3538.8	3418.7	3303.0	3057.6	3040.4	3079.2	3246.3	3129.2
45°	4090.2	4105.1	4048.4	3995.4	3914.8	3818.6	3613.4	3583.6	3626.1	3885.7	3719.3
47.5°	4503.5	4489.3	4525.9	4516.2	4559.5	4487.8	4306.5	4245.4	4347.6	4593.8	4349.1
50°	4818.4	4834.0	4910.1	5021.3	5207.1	5247.4	5073.5	5052.6	5098.2	5256.3	4912.4
52.5°	5022.8	5075.0	5194.4	5480.2	5815.2	6075.6	5943.5	5932.3	5913.7	5956.2	5451.1
55°	5156.4	5209.3	5365.3	5786.1	6362.8	6785.9	6792.6	6744.8	6621.7	6591.1	5954.7
57.5°	5074.3	5084.7	5307.1	5869.6	6666.5	7292.5	7511.8	7464.1	7236.5	7120.9	6399.4
60°	4561.0	4582.6	4892.2	5553.3	6534.4	7458.1	7988.6	7966.9	7717.7	7587.2	6745.6
62.5°	3651.5	3714.1	4032.7	4769.9	5920.4	7179.1	8181.8	8243.0	8049.0	7869.2	6854.5
63°	3484.3	3464.2	3800.7	4541.6	5757.7	7041.0	8184.8	8262.4	8063.9	7896.1	6824.7
65°	2579.3	2639.7	2858.3	3581.3	4791.5	6398.6	8000.5	8137.8	8008.7	7777.4	6494.1
67.5°	1448.2	1445.2	1687.0	2343.5	3353.8	5019.1	7234.3	7524.5	7497.6	6979.1	5383.2
70°	708.8	720.0	819.2	1214.7	1945.1	3462.7	6011.4	6324.8	6334.5	5481.7	3722.3
72.5°	320.8	326.0	396.9	591.7	999.8	1843.6	4142.4	4441.6	4386.4	3493.3	2055.5
75°	169.4	180.6	218.6	297.7	482.0	760.3	2253.2	2542.7	2427.1	1595.9	756.6
77.5°	125.3	129.1	148.5	189.5	258.2	296.2	972.2	1156.5	1083.3	577.5	250.7
80°	91.8	94.8	110.4	134.3	162.7	150.7	366.3	420.1	376.8	196.2	76.8
82.5°	56.0	56.7	80.6	100.0	102.2	84.3	120.9	129.8	135.8	110.4	41.8
85°	20.1	25.4	54.5	72.4	60.4	42.5	50.7	56.0	61.2	70.1	24.6
87.5°	2.2	3.0	26.1	35.1	17.2	15.7	18.7	20.9	22.4	26.1	11.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P452473  
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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1109.5	1109.5	1109.5	1109.5	1109.5	1109.5	1109.5	1109.5	1109.5	1109.5	1109.5
2.5°	1116.2	1119.2	1116.9	1113.2	1112.4	1110.2	1105.7	1105.7	1105.7	1107.2	1105.7
5°	1132.6	1134.8	1129.6	1122.1	1113.9	1103.5	1092.3	1085.6	1084.8	1083.3	1079.6
7.5°	1163.9	1166.9	1155.0	1137.1	1114.7	1089.3	1065.4	1043.1	1032.6	1024.4	1024.4
10°	1209.4	1212.4	1188.6	1156.5	1111.7	1060.2	1003.5	952.0	911.7	893.1	888.6
12.5°	1263.9	1265.4	1225.9	1169.9	1096.0	996.8	875.9	763.3	684.9	649.1	645.4
15°	1323.6	1313.2	1260.9	1175.1	1051.3	866.2	657.3	519.3	438.0	414.1	423.0
17.5°	1384.0	1364.6	1287.8	1166.9	950.5	657.3	441.7	354.4	329.0	322.3	322.3
20°	1440.7	1413.9	1307.2	1131.1	776.0	452.9	327.5	306.7	302.2	297.7	298.4
22.5°	1497.4	1456.4	1324.3	1051.3	578.2	323.8	293.2	286.5	280.5	274.6	273.8
25°	1552.7	1495.9	1331.1	903.5	393.9	278.3	267.9	258.9	247.0	240.2	238.8
27.5°	1610.1	1543.7	1326.6	717.0	287.3	249.2	238.8	226.1	211.9	200.0	200.0
30°	1720.5	1634.7	1310.9	515.6	241.7	219.4	205.9	185.8	170.1	158.2	157.4
32.5°	1871.2	1753.4	1257.2	362.6	214.9	193.2	173.1	150.7	134.3	125.3	125.3
35°	2005.5	1872.7	1156.5	267.1	193.2	167.9	143.3	121.6	108.9	103.0	100.7
37.5°	2210.0	2047.3	1017.7	217.1	172.4	145.5	120.1	100.0	89.5	85.1	85.1
40°	2516.6	2260.7	847.6	190.3	152.2	123.9	100.0	84.3	76.1	70.9	70.9
42.5°	2897.1	2521.8	675.2	170.9	133.6	106.7	83.6	71.6	64.2	60.4	59.7
45°	3376.1	2797.2	520.0	153.0	118.6	91.0	70.9	60.4	53.0	50.7	51.5
47.5°	3876.0	3039.6	402.9	137.3	103.0	76.8	60.4	52.2	47.0	44.0	44.0
50°	4302.8	3206.8	305.9	119.4	91.0	64.9	53.0	47.0	42.5	41.0	40.3
52.5°	4659.4	3255.3	234.3	103.7	79.8	56.0	47.0	42.5	38.8	36.6	36.6
55°	4963.1	3212.7	183.5	87.3	67.1	48.5	41.8	38.1	33.6	31.3	30.6
57.5°	5140.7	3076.2	140.3	72.4	54.5	40.3	36.6	32.1	26.9	23.1	23.1
60°	5230.2	2877.7	107.4	59.7	41.8	32.1	29.8	23.9	18.7	15.7	14.9
62.5°	5122.8	2614.4	81.3	47.0	31.3	23.9	20.1	17.2	11.9	9.0	9.0
63°	5056.4	2538.3	78.3	44.8	29.1	22.4	18.7	15.7	10.4	8.2	7.5
65°	4609.5	2206.2	64.2	35.8	23.1	15.7	12.7	11.2	7.5	3.7	3.0
67.5°	3660.4	1687.7	50.7	26.9	16.4	11.2	7.5	6.7	2.2	0.0	0.0
70°	2474.8	1090.1	39.5	19.4	11.2	6.7	3.7	3.0	0.7	0.0	0.0
72.5°	1290.8	558.8	30.6	14.2	6.7	4.5	2.2	0.7	0.0	0.0	0.0
75°	456.6	190.3	22.4	9.0	4.5	2.2	0.7	0.0	0.0	0.0	0.0
77.5°	138.0	70.9	14.2	6.7	3.0	1.5	0.0	0.0	0.0	0.0	0.0
80°	48.5	26.1	8.2	4.5	2.2	0.7	0.0	0.0	0.0	0.0	0.0
82.5°	23.9	12.7	5.2	3.7	2.2	0.7	0.0	0.0	0.0	0.0	0.0
85°	13.4	8.2	4.5	3.7	2.2	1.5	0.0	0.0	0.0	0.0	0.0
87.5°	9.7	6.0	4.5	3.7	3.0	1.5	0.7	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)