

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: P451464

Luminaire Tested: **GALN-SA2B-750-U-T4W-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P451464  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-27)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA2B-750-U-T4W-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 5000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8278 lumens  
Efficiency: N/A  
Efficacy: 101.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2

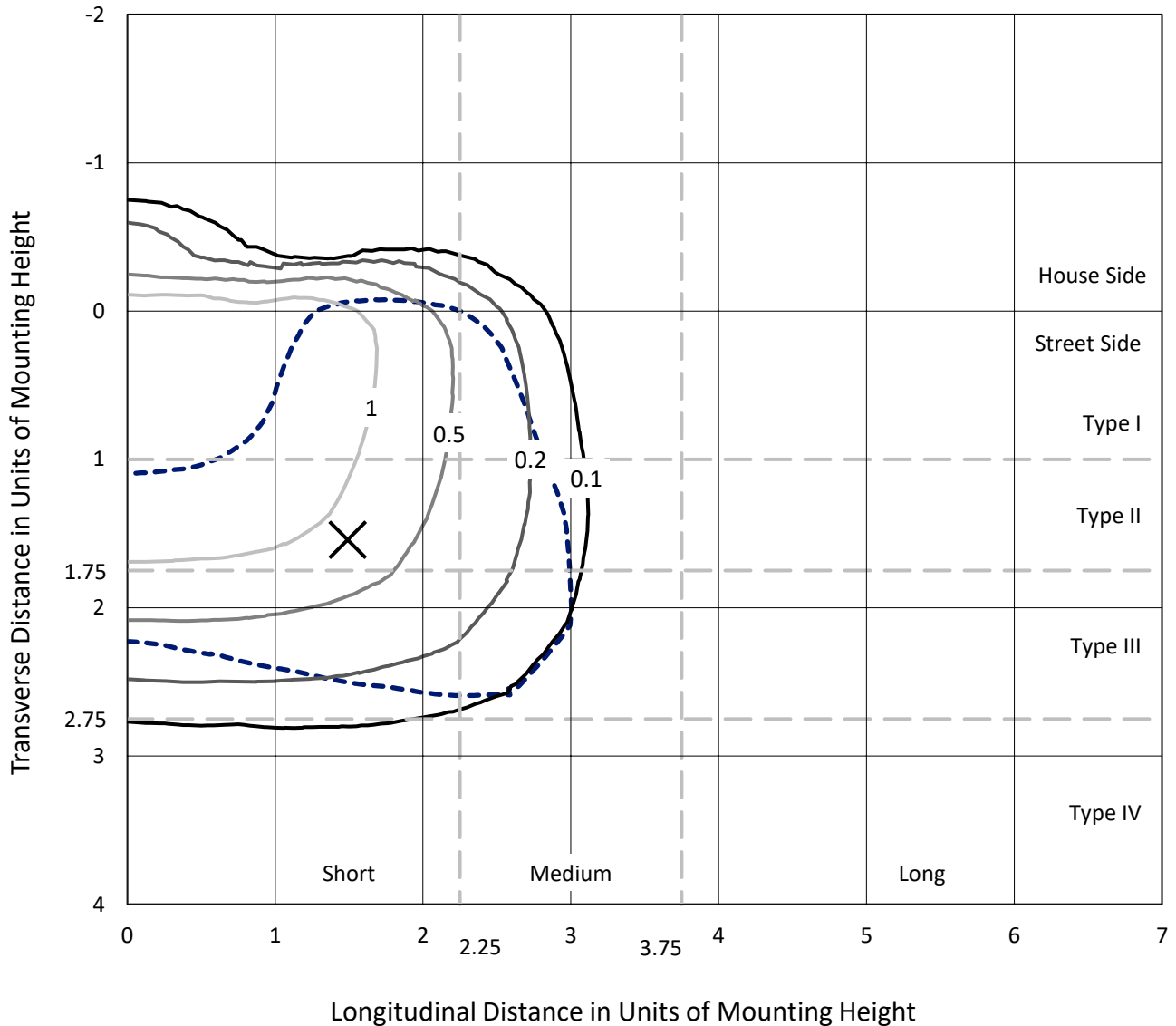
Input Watts (W): 82  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

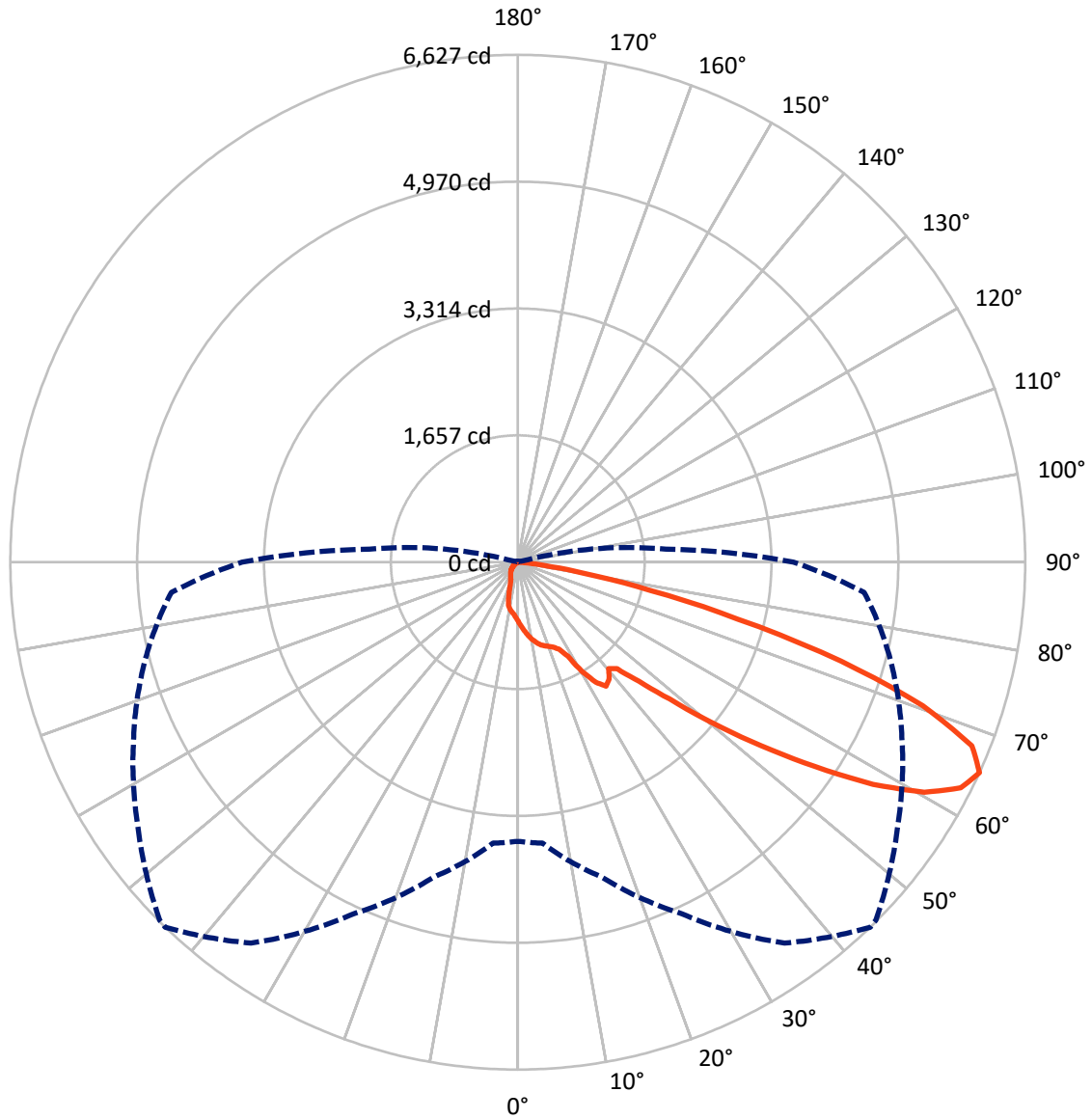
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	762.7	0.0	762.7
	% Fixture	9.2	0.0	9.2
<b>Street Side</b>	Lumens	7515.3	0.0	7515.3
	% Fixture	90.8	0.0	90.8
<b>Total</b>	Lumens	8278.0	0.0	8278.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	76.6	0.9
10°-20°	230.6	2.8
20°-30°	391.1	4.7
30°-40°	650.2	7.9
40°-50°	1135.3	13.7
50°-60°	2217.9	26.8
60°-70°	2573.3	31.1
70°-80°	937.1	11.3
80°-90°	66.0	0.8
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°	8278.0	100.0
0°-180°	8278.0	100.0



REPORT NUMBER: P451464

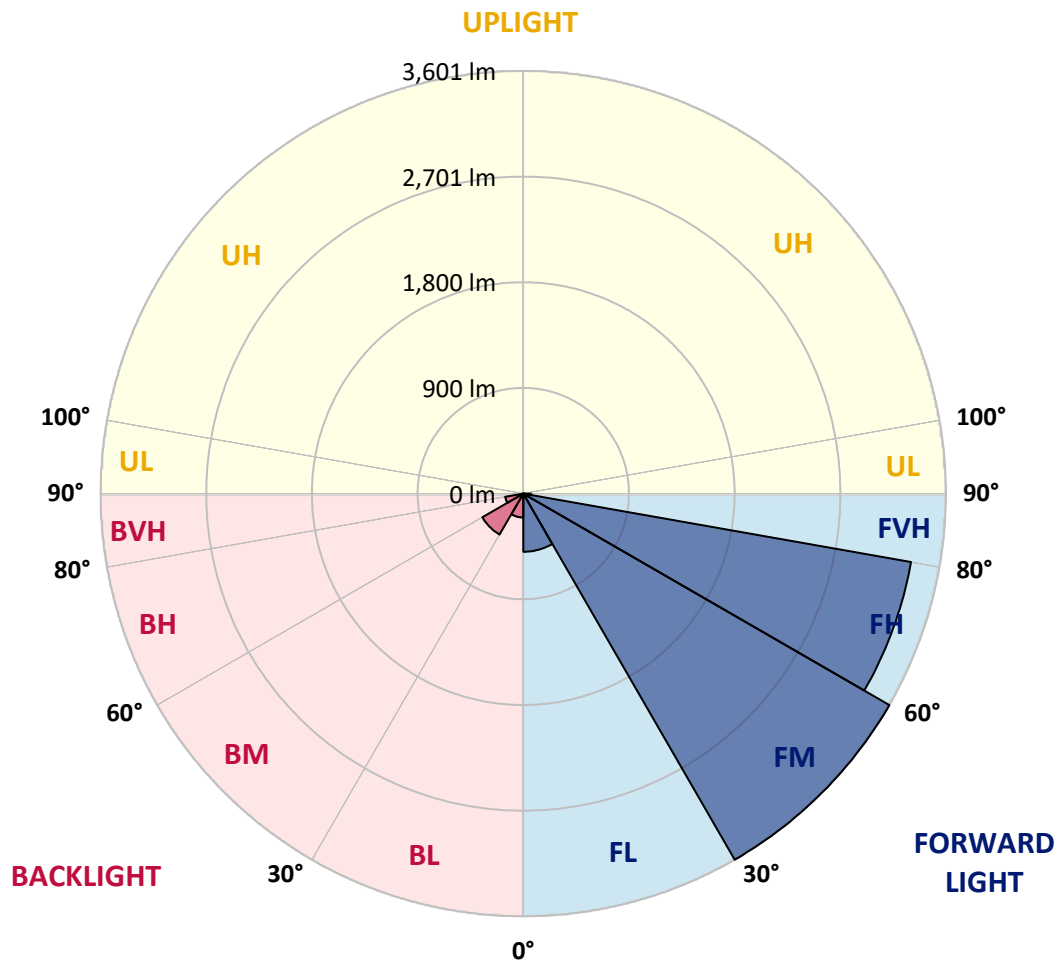
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	495.1	6.0			
FM (30°-60°)	3600.9	43.5			
FH (60°-80°)	3354.1	40.5			G2/5000
FVH (80°-90°)	65.1	0.8			G1/100
BL (0°-30°)	203.2	2.5	B1/500		
BM (30°-60°)	402.4	4.9	B1/1000		
BH (60°-80°)	156.2	1.9	B1/500		G1/500
BVH (80°-90°)	0.9	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°	44°	45°	55°	65°	75°	85°
0°	770.4	770.4	770.4	770.4	770.4	770.4	770.4	770.4	770.4	770.4	770.4
2.5°	867.2	863.4	861.5	851.4	843.8	834.3	834.3	822.3	808.4	793.2	779.3
5°	964.0	957.7	949.4	940.6	922.9	897.6	897.6	872.3	843.2	817.2	788.8
7.5°	1057.0	1051.3	1037.4	1020.3	991.2	964.6	962.7	926.0	891.3	852.0	811.6
10°	1138.6	1134.1	1122.1	1089.2	1058.9	1024.1	1023.5	982.3	941.9	893.8	843.8
12.5°	1195.5	1196.1	1180.3	1148.7	1109.5	1076.6	1074.1	1033.6	991.2	939.3	878.0
15°	1236.0	1236.0	1219.5	1184.1	1148.7	1119.6	1117.1	1081.6	1038.0	981.7	915.3
17.5°	1247.4	1251.2	1233.5	1201.8	1173.4	1148.1	1147.4	1117.7	1082.9	1028.5	953.2
20°	1242.9	1246.7	1232.8	1208.2	1188.5	1174.0	1172.1	1160.1	1127.8	1076.6	993.7
22.5°	1233.5	1237.3	1227.1	1212.6	1203.1	1207.5	1204.4	1214.5	1197.4	1135.4	1041.8
25°	1235.4	1239.1	1231.6	1223.3	1231.6	1258.8	1267.0	1310.6	1295.4	1210.1	1093.7
27.5°	1294.8	1302.4	1291.6	1295.4	1324.5	1387.8	1403.6	1478.9	1411.8	1304.9	1174.6
30°	1427.0	1422.0	1401.7	1420.1	1521.3	1655.4	1650.9	1638.9	1533.9	1414.4	1270.8
32.5°	1547.2	1542.8	1541.5	1620.6	1804.0	1869.2	1866.0	1749.6	1643.3	1539.6	1365.7
35°	1595.9	1578.8	1575.0	1766.7	2073.5	1987.4	1967.8	1795.2	1776.2	1676.2	1462.4
37.5°	1742.7	1730.6	1671.8	1790.7	1965.9	1937.5	1922.3	1873.6	1917.9	1797.0	1571.9
40°	2045.0	2011.5	1958.3	1842.0	1813.5	1825.5	1840.7	1974.2	2085.5	1962.1	1718.0
42.5°	2420.7	2413.1	2314.5	2097.5	1884.3	1900.8	1920.4	2184.2	2326.5	2210.7	1956.4
45°	2871.7	2882.5	2740.2	2484.0	2204.4	2218.3	2246.8	2494.1	2652.9	2597.2	2331.5
47.5°	3281.6	3273.4	3225.3	2959.0	2701.0	2670.0	2716.1	2892.0	3104.5	3113.4	2797.1
50°	3694.0	3737.7	3666.2	3561.8	3370.2	3305.0	3287.9	3374.0	3697.8	3655.5	3356.3
52.5°	4286.7	4309.5	4175.4	4148.8	4192.5	3981.2	3964.1	3985.0	4274.7	4129.2	3775.0
55°	4659.3	4646.0	4596.0	4803.5	4976.2	4712.4	4690.9	4606.8	4753.5	4463.8	4177.9
57.5°	4776.9	4795.9	4912.3	5287.4	5696.0	5472.1	5432.9	5193.8	5098.9	4775.7	4548.6
60°	4724.4	4759.2	5010.4	5568.3	6135.0	6101.5	6068.0	5666.3	5346.9	5036.3	4808.6
62.5°	4350.6	4399.3	4801.0	5518.3	6283.7	6493.0	6451.3	5961.1	5512.0	5162.8	4854.1
65°	3646.0	3682.0	4258.9	5064.8	6072.4	6627.1	6612.0	6053.4	5537.9	5047.0	4542.3
67.5°	2599.1	2721.8	3256.3	4268.4	5447.4	6398.2	6424.1	5942.7	5294.4	4546.7	3761.7
70°	1633.9	1717.3	2100.7	3055.8	4367.1	5613.2	5698.6	5436.1	4594.8	3544.1	2518.1
72.5°	779.3	841.3	1114.5	1934.3	3082.4	4416.4	4484.1	4462.6	3553.0	2232.9	1299.2
75°	347.3	370.7	532.0	987.4	1990.0	2968.5	3143.7	3172.8	2220.2	1092.4	505.4
77.5°	177.1	177.7	249.2	478.2	993.7	1771.1	1805.9	1907.7	1203.7	481.4	175.8
80°	94.2	100.6	132.2	225.8	515.5	872.3	867.8	953.9	533.9	235.9	58.8
82.5°	42.4	46.8	74.6	118.3	251.8	330.8	356.8	390.3	229.0	150.5	25.9
85°	12.7	15.2	36.7	59.5	91.1	95.5	106.9	137.9	129.7	106.9	13.3
87.5°	1.9	1.9	15.2	16.4	13.3	17.1	17.7	19.6	41.7	39.2	7.0
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°	770.4	770.4	770.4	770.4	770.4	770.4	770.4	770.4	770.4	770.4	770.4
2.5°	771.7	767.3	751.5	738.2	726.8	719.8	711.6	706.5	704.0	702.1	702.8
5°	774.9	764.1	736.9	715.4	699.0	681.2	669.2	662.3	659.1	654.0	654.0
7.5°	792.6	775.5	737.5	704.7	676.2	652.1	629.4	621.2	615.5	614.2	612.9
10°	817.9	796.4	744.5	699.0	658.5	625.6	593.3	564.9	542.7	529.4	527.5
12.5°	849.5	818.5	755.3	695.2	643.3	585.1	499.7	442.1	403.6	391.5	393.4
15°	878.6	845.1	766.0	692.0	615.5	485.2	388.4	322.6	303.0	301.1	301.7
17.5°	913.4	873.5	778.7	687.6	538.9	370.7	288.4	270.7	274.5	280.8	280.2
20°	949.4	903.9	793.8	661.0	430.1	279.0	254.9	256.8	262.5	268.2	269.5
22.5°	988.0	938.7	811.6	597.1	328.3	242.9	241.6	244.2	249.9	256.2	257.4
25°	1041.2	982.3	824.8	513.6	248.6	224.6	227.1	231.5	236.6	243.5	244.8
27.5°	1109.5	1041.2	831.8	404.8	215.1	208.1	208.7	215.1	221.4	227.7	227.7
30°	1198.0	1111.4	817.9	306.1	198.6	192.3	189.8	193.6	201.8	208.1	208.7
32.5°	1277.1	1177.8	781.2	234.0	186.6	177.7	171.4	172.1	175.2	179.0	179.6
35°	1356.2	1242.3	718.6	196.7	173.9	163.8	154.3	149.3	146.7	144.9	146.7
37.5°	1457.4	1322.6	635.1	179.0	163.2	150.5	137.3	126.5	117.7	112.0	113.2
40°	1587.7	1434.0	536.4	167.6	153.1	137.9	120.2	106.3	91.1	86.0	83.5
42.5°	1802.7	1602.9	432.7	158.1	143.0	124.6	102.5	83.5	69.6	64.5	65.8
45°	2142.4	1816.0	333.3	148.0	132.8	110.1	86.0	65.8	54.4	51.9	53.1
47.5°	2592.8	2091.8	256.8	136.6	120.2	94.2	67.7	51.9	44.9	44.3	43.6
50°	3016.6	2348.6	214.4	124.0	105.0	78.4	55.7	43.6	39.2	38.6	38.6
52.5°	3399.9	2532.7	174.6	109.4	88.6	64.5	46.8	38.6	34.8	32.9	32.9
55°	3740.8	2652.9	141.7	91.7	69.6	51.2	40.5	34.8	30.4	27.8	27.2
57.5°	3998.3	2667.4	106.3	73.4	51.9	39.9	34.8	30.4	25.3	22.1	20.9
60°	4108.4	2541.5	78.4	55.7	38.6	31.6	27.8	24.7	19.0	15.8	15.2
62.5°	3997.7	2296.8	58.2	42.4	29.7	23.4	19.6	18.3	13.3	9.5	8.9
65°	3601.1	1943.2	46.2	32.3	22.1	17.1	12.7	12.0	8.2	4.4	3.8
67.5°	2885.0	1521.9	36.7	24.0	15.8	11.4	8.2	7.6	4.4	1.3	1.3
70°	1876.1	972.8	29.7	17.7	10.1	7.6	5.1	3.8	2.5	0.6	0.0
72.5°	927.9	454.8	24.0	13.9	7.0	3.8	1.9	1.3	1.9	0.0	0.0
75°	359.9	161.9	17.7	9.5	3.8	1.9	1.3	0.0	0.6	0.0	0.0
77.5°	119.6	53.8	10.8	5.1	2.5	1.3	0.0	0.0	0.0	0.0	0.0
80°	44.3	20.9	5.7	3.2	1.3	0.6	0.0	0.0	0.0	0.0	0.0
82.5°	17.7	8.2	3.8	2.5	1.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	8.9	5.1	2.5	1.9	1.3	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.3	3.8	2.5	1.9	1.3	0.6	0.0	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)