

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: P451696

Luminaire Tested: **GALN-SA2C-750-U-T4W-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451696
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-SA2C-750-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 5000K, 1050mA 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: 10227 lumens
Efficiency: N/A
Efficacy: 94.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

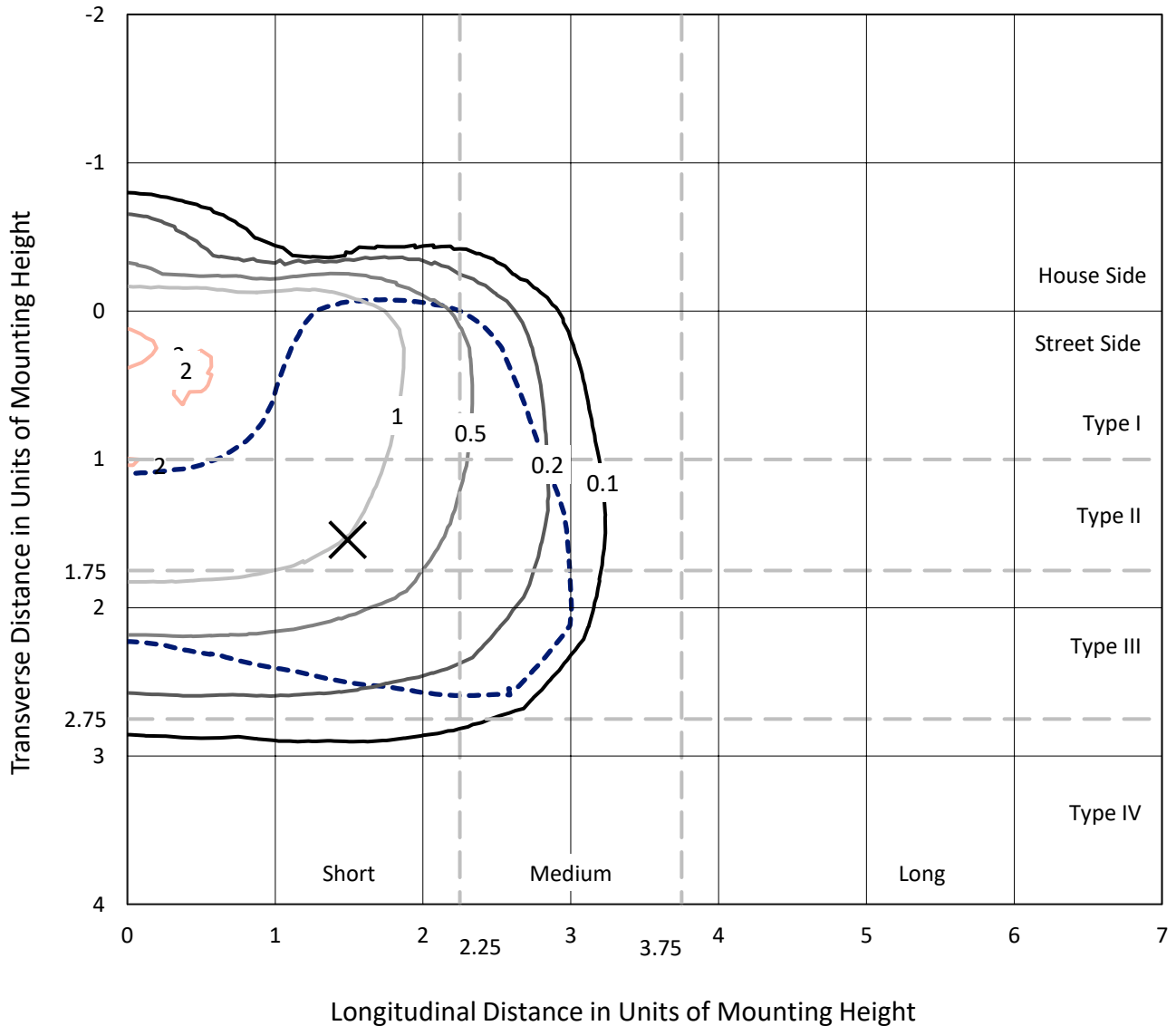
Input Watts (W): 108
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

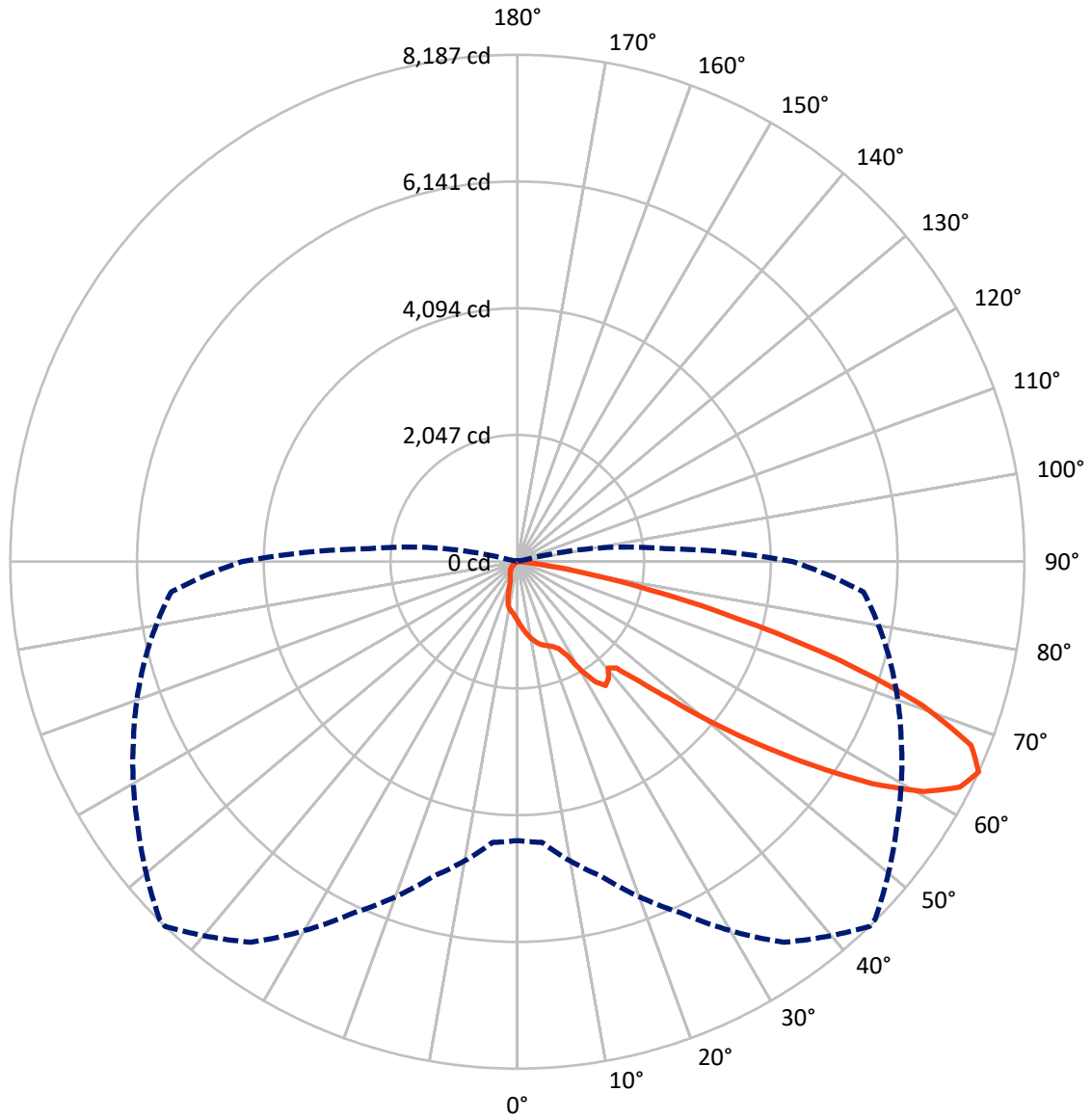
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 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
House Side	Lumens	942.3	0.0	942.3
	% Fixture	9.2	0.0	9.2
Street Side	Lumens	9284.7	0.0	9284.7
	% Fixture	90.8	0.0	90.8
Total	Lumens	10227.0	0.0	10227.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.7	0.9
10°-20°	284.9	2.8
20°-30°	483.1	4.7
30°-40°	803.3	7.9
40°-50°	1402.5	13.7
50°-60°	2740.1	26.8
60°-70°	3179.1	31.1
70°-80°	1157.7	11.3
80°-90°	81.6	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°	10227.0	100.0
0°-180°	10227.0	100.0



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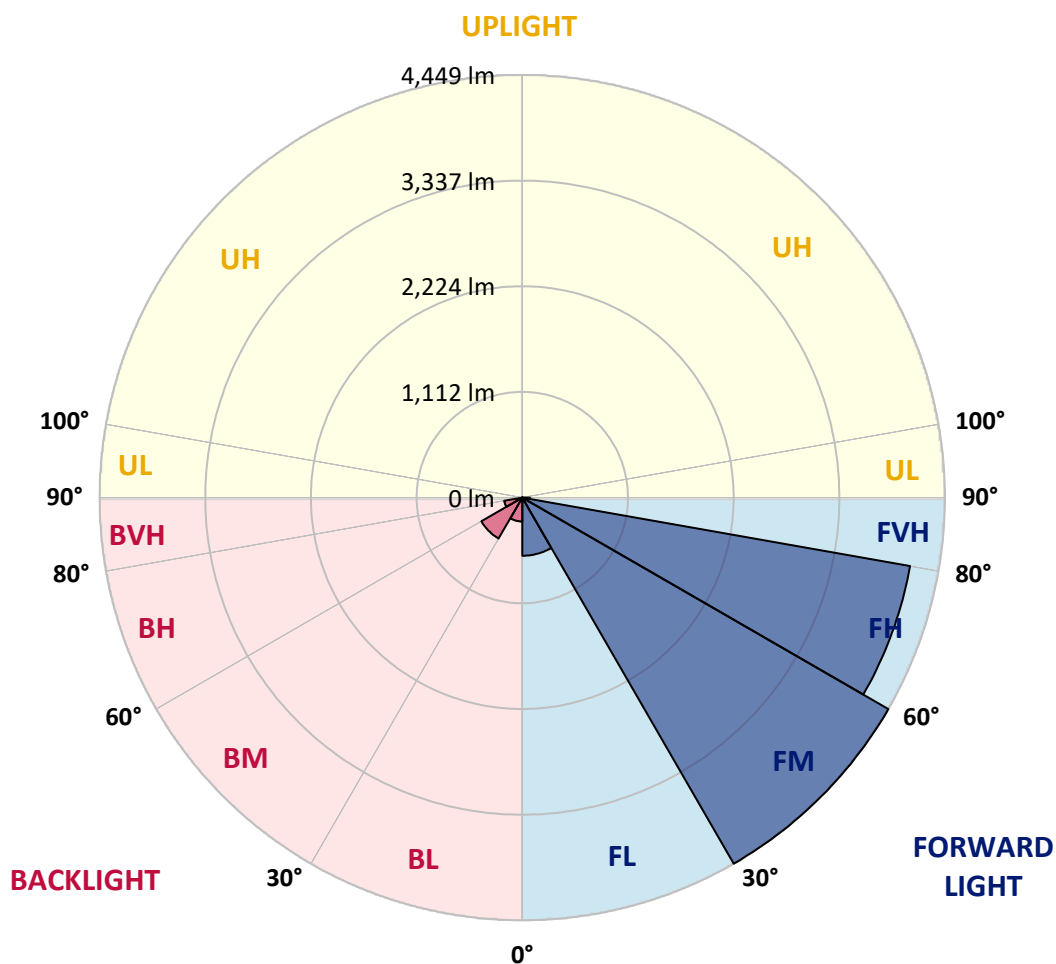
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	611.7	6.0			
FM	(30°-60°)	4448.8	43.5			
FH	(60°-80°)	4143.8	40.5			G2/5000
FVH	(80°-90°)	80.5	0.8			G1/100
BL	(0°-30°)	251.0	2.5	B1/500		
BM	(30°-60°)	497.1	4.9	B1/1000		
BH	(60°-80°)	193.0	1.9	B1/500		G1/500
BVH	(80°-90°)	1.1	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°	951.8	951.8	951.8	951.8	951.8	951.8	951.8	951.8	951.8	951.8	951.8
2.5°	1071.4	1066.7	1064.4	1051.9	1042.5	1030.8	1030.8	1015.9	998.7	980.0	962.8
5°	1191.0	1183.1	1173.0	1162.0	1140.2	1108.9	1108.9	1077.6	1041.7	1009.7	974.5
7.5°	1305.8	1298.8	1281.6	1260.5	1224.6	1191.7	1189.4	1144.1	1101.1	1052.6	1002.6
10°	1406.6	1401.2	1386.3	1345.7	1308.2	1265.2	1264.4	1213.6	1163.6	1104.2	1042.5
12.5°	1477.0	1477.8	1458.2	1419.1	1370.7	1330.1	1326.9	1276.9	1224.6	1160.5	1084.7
15°	1527.0	1527.0	1506.7	1462.9	1419.1	1383.2	1380.1	1336.3	1282.4	1212.8	1130.8
17.5°	1541.1	1545.7	1523.9	1484.8	1449.6	1418.4	1417.6	1380.9	1337.9	1270.7	1177.7
20°	1535.6	1540.3	1523.1	1492.6	1468.4	1450.4	1448.1	1433.2	1393.4	1330.1	1227.7
22.5°	1523.9	1528.6	1516.0	1498.1	1486.4	1491.8	1487.9	1500.4	1479.3	1402.7	1287.1
25°	1526.2	1530.9	1521.5	1511.4	1521.5	1555.1	1565.3	1619.2	1600.4	1494.9	1351.2
27.5°	1599.7	1609.0	1595.8	1600.4	1636.4	1714.5	1734.1	1827.1	1744.2	1612.2	1451.2
30°	1763.0	1756.7	1731.7	1754.4	1879.4	2045.1	2039.6	2024.8	1895.1	1747.4	1570.0
32.5°	1911.5	1906.0	1904.4	2002.1	2228.7	2309.2	2305.3	2161.5	2030.3	1902.1	1687.2
35°	1971.6	1950.5	1945.9	2182.6	2561.7	2455.4	2431.1	2217.8	2194.4	2070.9	1806.8
37.5°	2152.9	2138.1	2065.4	2212.3	2428.8	2393.6	2374.9	2314.7	2369.4	2220.2	1941.9
40°	2526.5	2485.1	2419.4	2275.6	2240.5	2255.3	2274.1	2439.0	2576.5	2424.1	2122.5
42.5°	2990.7	2981.3	2859.4	2591.3	2328.0	2348.3	2372.5	2698.4	2874.2	2731.2	2417.1
45°	3547.9	3561.2	3385.3	3068.8	2723.4	2740.6	2775.8	3081.3	3277.5	3208.7	2880.5
47.5°	4054.3	4044.1	3984.7	3655.7	3336.9	3298.6	3355.6	3572.9	3835.4	3846.4	3455.7
50°	4563.8	4617.7	4529.4	4400.4	4163.7	4083.2	4062.1	4168.4	4568.5	4516.1	4146.5
52.5°	5296.0	5324.1	5158.5	5125.7	5179.6	4918.6	4897.5	4923.3	5281.2	5101.4	4663.8
55°	5756.3	5739.9	5678.2	5934.5	6147.8	5821.9	5795.4	5691.4	5872.7	5514.8	5161.6
57.5°	5901.7	5925.1	6068.9	6532.3	7037.1	6760.5	6712.0	6416.6	6299.4	5900.1	5619.5
60°	5836.8	5879.8	6190.0	6879.3	7579.5	7538.0	7496.6	7000.4	6605.8	6222.1	5940.7
62.5°	5374.9	5435.1	5931.3	6817.5	7763.1	8021.8	7970.2	7364.6	6809.7	6378.3	5997.0
65°	4504.4	4548.9	5261.6	6257.2	7502.1	8187.4	8168.7	7478.7	6841.8	6235.3	5611.7
67.5°	3211.1	3362.7	4023.0	5273.3	6730.0	7904.6	7936.6	7341.9	6540.9	5617.2	4647.4
70°	2018.5	2121.7	2595.3	3775.3	5395.3	6934.8	7040.3	6715.9	5676.6	4378.6	3111.0
72.5°	962.8	1039.4	1376.9	2389.7	3808.1	5456.2	5539.8	5513.3	4389.5	2758.6	1605.1
75°	429.0	457.9	657.2	1219.9	2458.5	3667.4	3883.9	3919.8	2743.0	1349.6	624.4
77.5°	218.8	219.6	307.9	590.8	1227.7	2188.1	2231.1	2356.9	1487.1	594.7	217.2
80°	116.4	124.3	163.3	279.0	636.9	1077.6	1072.2	1178.5	659.6	291.5	72.7
82.5°	52.4	57.8	92.2	146.1	311.0	408.7	440.7	482.2	282.9	186.0	32.0
85°	15.6	18.8	45.3	73.5	112.5	118.0	132.1	170.4	160.2	132.1	16.4
87.5°	2.3	2.3	18.8	20.3	16.4	21.1	21.9	24.2	51.6	48.5	8.6
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°	951.8	951.8	951.8	951.8	951.8	951.8	951.8	951.8	951.8	951.8	951.8
2.5°	953.4	947.9	928.4	912.0	897.9	889.3	879.2	872.9	869.8	867.4	868.2
5°	957.3	944.0	910.4	883.8	863.5	841.6	826.8	818.2	814.3	808.0	808.0
7.5°	979.2	958.1	911.2	870.6	835.4	805.7	777.6	767.4	760.4	758.8	757.2
10°	1010.4	983.9	919.8	863.5	813.5	772.9	733.0	697.9	670.5	654.1	651.7
12.5°	1049.5	1011.2	933.1	858.8	794.8	722.9	617.4	546.2	498.6	483.7	486.1
15°	1085.5	1044.0	946.4	854.9	760.4	599.4	479.8	398.5	374.3	372.0	372.8
17.5°	1128.4	1079.2	962.0	849.5	665.8	457.9	356.3	334.5	339.2	347.0	346.2
20°	1173.0	1116.7	980.7	816.6	531.4	344.6	314.9	317.3	324.3	331.3	332.9
22.5°	1220.7	1159.7	1002.6	737.7	405.6	300.1	298.5	301.6	308.7	316.5	318.1
25°	1286.3	1213.6	1019.0	634.6	307.1	277.4	280.5	286.0	292.3	300.9	302.4
27.5°	1370.7	1286.3	1027.6	500.1	265.7	257.1	257.9	265.7	273.5	281.3	281.3
30°	1480.1	1373.0	1010.4	378.2	245.4	237.6	234.4	239.1	249.3	257.1	257.9
32.5°	1577.8	1455.1	965.1	289.1	230.5	219.6	211.8	212.6	216.5	221.2	221.9
35°	1675.5	1534.8	887.7	243.0	214.9	202.4	190.7	184.4	181.3	179.0	181.3
37.5°	1800.5	1634.1	784.6	221.2	201.6	186.0	169.6	156.3	145.4	138.3	139.9
40°	1961.5	1771.6	662.7	207.1	189.1	170.4	148.5	131.3	112.5	106.3	103.2
42.5°	2227.2	1980.2	534.5	195.4	176.6	153.9	126.6	103.2	86.0	79.7	81.3
45°	2646.8	2243.6	411.8	182.9	164.1	136.0	106.3	81.3	67.2	64.1	65.6
47.5°	3203.2	2584.3	317.3	168.8	148.5	116.4	83.6	64.1	55.5	54.7	53.9
50°	3726.8	2901.6	264.9	153.2	129.7	96.9	68.8	53.9	48.5	47.7	47.7
52.5°	4200.4	3129.0	215.7	135.2	109.4	79.7	57.8	47.7	43.0	40.6	40.6
55°	4621.6	3277.5	175.0	113.3	86.0	63.3	50.0	43.0	37.5	34.4	33.6
57.5°	4939.7	3295.5	131.3	90.7	64.1	49.2	43.0	37.5	31.3	27.4	25.8
60°	5075.6	3139.9	96.9	68.8	47.7	39.1	34.4	30.5	23.4	19.5	18.8
62.5°	4938.9	2837.5	71.9	52.4	36.7	28.9	24.2	22.7	16.4	11.7	10.9
65°	4448.9	2400.7	57.0	39.9	27.4	21.1	15.6	14.8	10.2	5.5	4.7
67.5°	3564.3	1880.2	45.3	29.7	19.5	14.1	10.2	9.4	5.5	1.6	1.6
70°	2317.8	1201.9	36.7	21.9	12.5	9.4	6.3	4.7	3.1	0.8	0.0
72.5°	1146.4	561.9	29.7	17.2	8.6	4.7	2.3	1.6	2.3	0.0	0.0
75°	444.7	200.1	21.9	11.7	4.7	2.3	1.6	0.0	0.8	0.0	0.0
77.5°	147.7	66.4	13.3	6.3	3.1	1.6	0.0	0.0	0.0	0.0	0.0
80°	54.7	25.8	7.0	3.9	1.6	0.8	0.0	0.0	0.0	0.0	0.0
82.5°	21.9	10.2	4.7	3.1	1.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	10.9	6.3	3.1	2.3	1.6	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.8	4.7	3.1	2.3	1.6	0.8	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)