

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: P452131

Luminaire Tested: **GALN-SA3A-740-U-T4W-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452131
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-SA3A-740-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 4000K, 615mA 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: 9876 lumens
Efficiency: N/A
Efficacy: 106.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

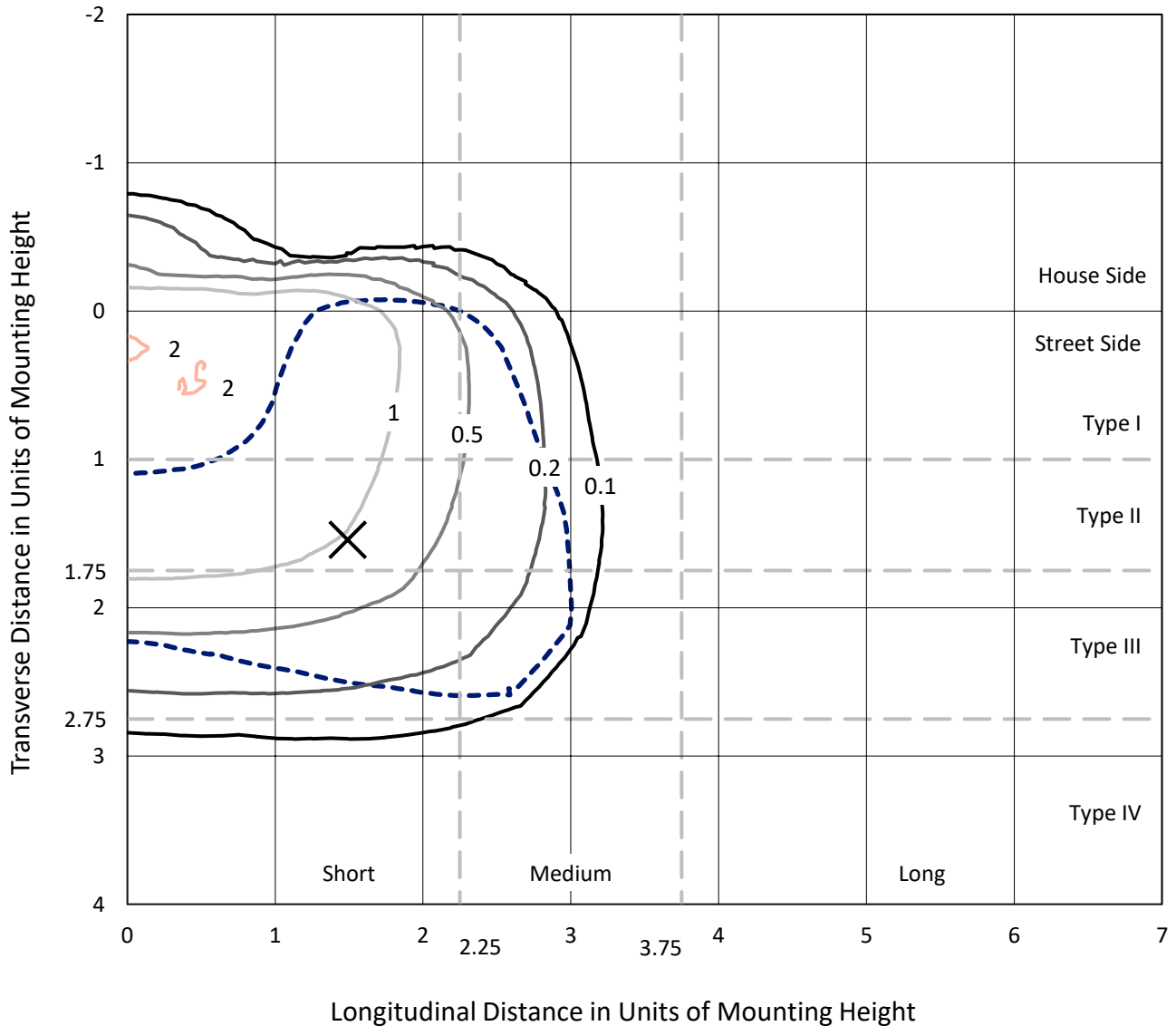
Input Watts (W): 93
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

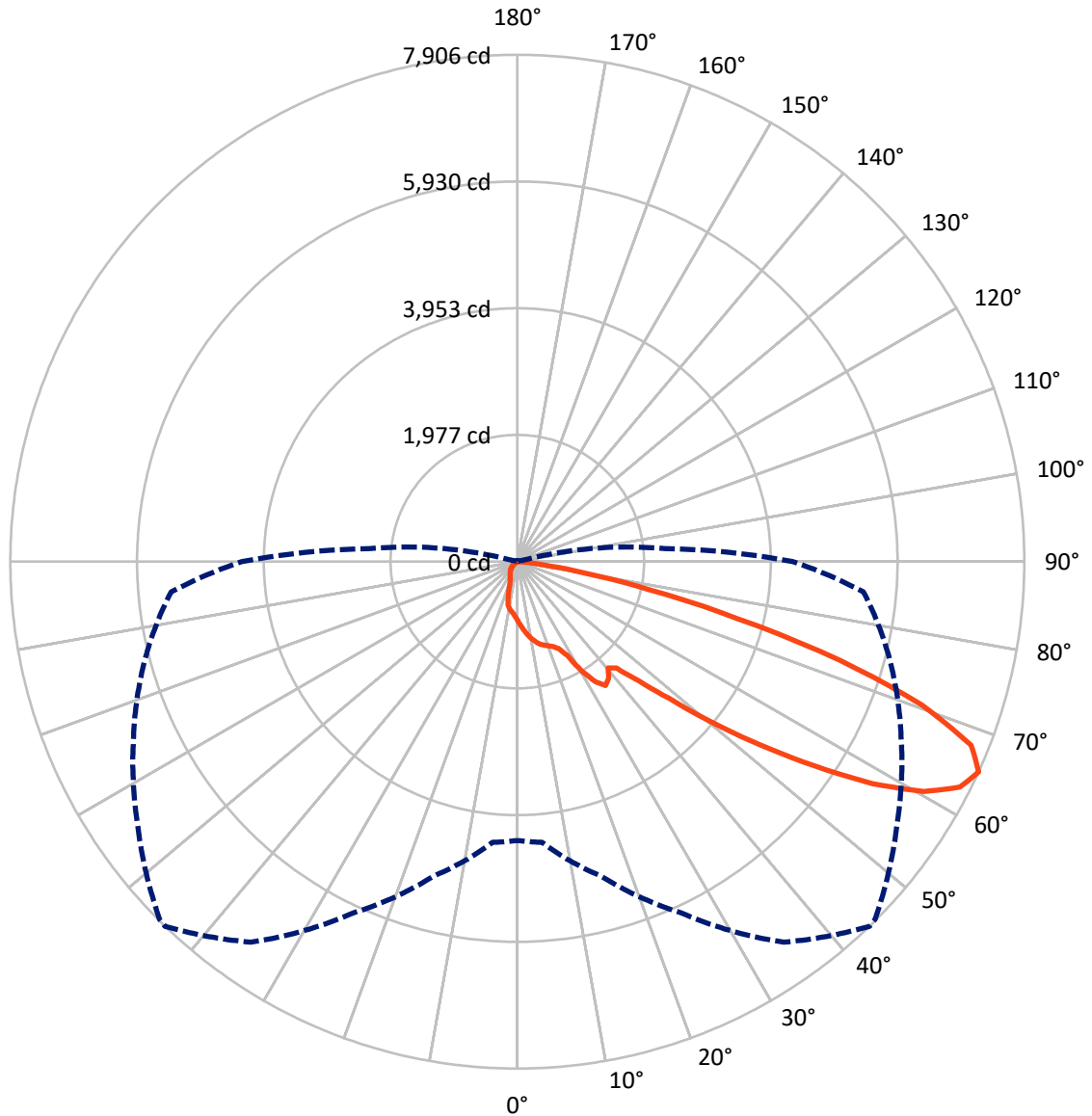
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 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	909.9	0.0	909.9
	% Fixture	9.2	0.0	9.2
Street Side	Lumens	8966.1	0.0	8966.1
	% Fixture	90.8	0.0	90.8
Total	Lumens	9876.0	0.0	9876.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.4	0.9
10°-20°	275.1	2.8
20°-30°	466.5	4.7
30°-40°	775.7	7.9
40°-50°	1354.4	13.7
50°-60°	2646.0	26.8
60°-70°	3070.0	31.1
70°-80°	1117.9	11.3
80°-90°	78.8	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°	9876.0	100.0
0°-180°	9876.0	100.0



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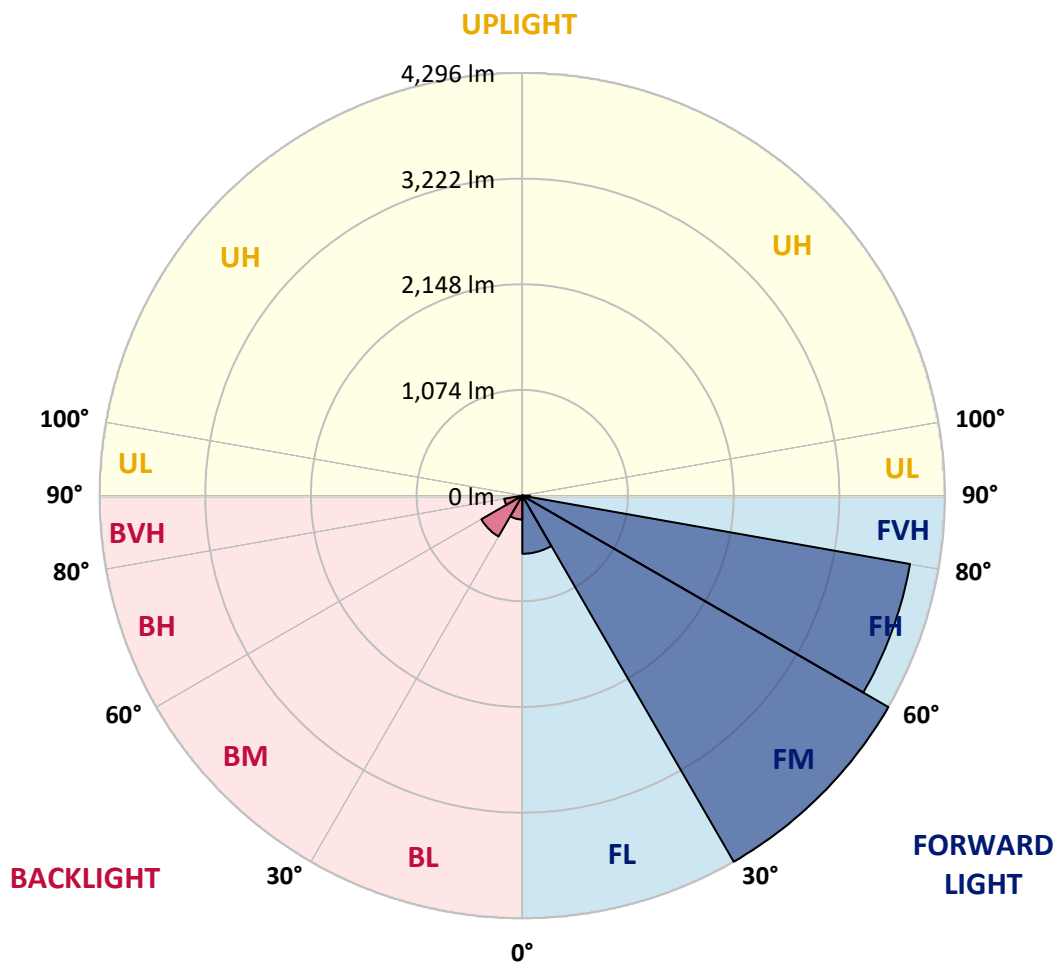
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	590.7	6.0			
FM (30°-60°)	4296.1	43.5			
FH (60°-80°)	4001.6	40.5			G2/5000
FVH (80°-90°)	77.7	0.8			G1/100
BL (0°-30°)	242.4	2.5	B1/500		
BM (30°-60°)	480.1	4.9	B1/1000		
BH (60°-80°)	186.3	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°	919.2	919.2	919.2	919.2	919.2	919.2	919.2	919.2	919.2	919.2	919.2
2.5°	1034.6	1030.1	1027.8	1015.8	1006.7	995.4	995.4	981.0	964.4	946.3	929.7
5°	1150.1	1142.5	1132.7	1122.2	1101.0	1070.8	1070.8	1040.7	1005.9	975.0	941.0
7.5°	1261.0	1254.2	1237.6	1217.2	1182.5	1150.8	1148.6	1104.8	1063.3	1016.5	968.2
10°	1358.4	1353.1	1338.7	1299.5	1263.3	1221.8	1221.0	1172.0	1123.7	1066.3	1006.7
12.5°	1426.3	1427.0	1408.2	1370.4	1323.7	1284.4	1281.4	1233.1	1182.5	1120.7	1047.5
15°	1474.6	1474.6	1455.0	1412.7	1370.4	1335.7	1332.7	1290.4	1238.4	1171.2	1092.0
17.5°	1488.2	1492.7	1471.6	1433.8	1399.9	1369.7	1368.9	1333.5	1292.0	1227.1	1137.3
20°	1482.9	1487.4	1470.8	1441.4	1418.0	1400.6	1398.4	1384.0	1345.5	1284.4	1185.6
22.5°	1471.6	1476.1	1464.0	1446.7	1435.3	1440.6	1436.8	1448.9	1428.5	1354.6	1242.9
25°	1473.8	1478.4	1469.3	1459.5	1469.3	1501.7	1511.6	1563.6	1545.5	1443.6	1304.8
27.5°	1544.8	1553.8	1541.0	1545.5	1580.2	1655.7	1674.6	1764.4	1684.4	1556.8	1401.4
30°	1702.5	1696.4	1672.3	1694.2	1814.9	1974.9	1969.6	1955.3	1830.0	1687.4	1516.1
32.5°	1845.9	1840.6	1839.1	1933.4	2152.3	2230.0	2226.2	2087.4	1960.6	1836.8	1629.3
35°	1904.0	1883.6	1879.1	2107.7	2473.7	2371.1	2347.7	2141.7	2119.1	1999.8	1744.7
37.5°	2079.1	2064.7	1994.5	2136.4	2345.4	2311.5	2293.4	2235.3	2288.1	2144.0	1875.3
40°	2439.8	2399.8	2336.4	2197.5	2163.6	2177.9	2196.0	2355.3	2488.1	2340.9	2049.6
42.5°	2888.0	2879.0	2761.3	2502.4	2248.1	2267.7	2291.1	2605.8	2775.6	2637.5	2334.1
45°	3426.1	3438.9	3269.1	2963.5	2629.9	2646.5	2680.5	2975.6	3165.0	3098.6	2781.6
47.5°	3915.1	3905.3	3847.9	3530.2	3222.3	3185.4	3240.5	3450.2	3703.8	3714.4	3337.1
50°	4407.1	4459.2	4373.9	4249.4	4020.8	3943.0	3922.7	4025.3	4411.7	4361.1	4004.2
52.5°	5114.2	5141.4	4981.4	4949.7	5001.8	4749.8	4729.4	4754.3	5099.9	4926.3	4503.7
55°	5558.7	5542.9	5483.3	5730.8	5936.8	5622.1	5596.5	5496.1	5671.2	5325.5	4984.4
57.5°	5699.1	5721.7	5860.6	6308.1	6795.6	6528.5	6481.7	6196.4	6083.2	5697.6	5426.7
60°	5636.5	5678.0	5977.6	6643.2	7319.3	7279.3	7239.3	6760.1	6379.0	6008.5	5736.8
62.5°	5190.5	5248.6	5727.8	6583.5	7496.7	7746.5	7696.7	7111.8	6576.0	6159.4	5791.2
65°	4349.8	4392.8	5081.0	6042.5	7244.6	7906.4	7888.3	7222.0	6606.9	6021.3	5419.1
67.5°	3100.8	3247.2	3884.9	5092.4	6499.0	7633.3	7664.2	7089.9	6316.4	5424.4	4487.9
70°	1949.3	2048.9	2506.2	3645.7	5210.1	6696.7	6798.6	6485.4	5481.8	4228.3	3004.3
72.5°	929.7	1003.7	1329.7	2307.7	3677.4	5269.0	5349.7	5324.0	4238.9	2663.9	1550.0
75°	414.3	442.2	634.7	1178.0	2374.1	3541.6	3750.6	3785.3	2648.8	1303.3	603.0
77.5°	211.3	212.1	297.3	570.5	1185.6	2113.0	2154.5	2276.0	1436.1	574.3	209.8
80°	112.4	120.0	157.7	269.4	615.0	1040.7	1035.4	1138.0	636.9	281.5	70.2
82.5°	50.6	55.8	89.0	141.1	300.3	394.7	425.6	465.6	273.2	179.6	30.9
85°	15.1	18.1	43.8	70.9	108.7	114.0	127.5	164.5	154.7	127.5	15.8
87.5°	2.3	2.3	18.1	19.6	15.8	20.4	21.1	23.4	49.8	46.8	8.3
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°	919.2	919.2	919.2	919.2	919.2	919.2	919.2	919.2	919.2	919.2	919.2
2.5°	920.7	915.4	896.5	880.7	867.1	858.8	849.0	842.9	839.9	837.7	838.4
5°	924.4	911.6	879.2	853.5	833.9	812.8	798.4	790.1	786.3	780.3	780.3
7.5°	945.6	925.2	879.9	840.7	806.7	778.0	750.9	741.1	734.3	732.8	731.3
10°	975.8	950.1	888.2	833.9	785.6	746.3	707.9	673.9	647.5	631.6	629.4
12.5°	1013.5	976.5	901.0	829.4	767.5	698.0	596.2	527.5	481.5	467.1	469.4
15°	1048.2	1008.2	913.9	825.6	734.3	578.8	463.4	384.9	361.5	359.2	360.0
17.5°	1089.7	1042.2	929.0	820.3	643.0	442.2	344.1	323.0	327.5	335.1	334.3
20°	1132.7	1078.4	947.1	788.6	513.2	332.8	304.1	306.4	313.2	320.0	321.5
22.5°	1178.8	1119.9	968.2	712.4	391.7	289.8	288.3	291.3	298.1	305.6	307.1
25°	1242.2	1172.0	984.1	612.8	296.6	267.9	270.9	276.2	282.2	290.5	292.0
27.5°	1323.7	1242.2	992.4	483.0	256.6	248.3	249.0	256.6	264.1	271.7	271.7
30°	1429.3	1325.9	975.8	365.2	237.0	229.4	226.4	230.9	240.7	248.3	249.0
32.5°	1523.6	1405.2	932.0	279.2	222.6	212.1	204.5	205.3	209.0	213.6	214.3
35°	1618.0	1482.1	857.3	234.7	207.5	195.5	184.1	178.1	175.1	172.8	175.1
37.5°	1738.7	1578.0	757.7	213.6	194.7	179.6	163.8	150.9	140.4	133.6	135.1
40°	1894.2	1710.8	639.9	200.0	182.6	164.5	143.4	126.8	108.7	102.6	99.6
42.5°	2150.7	1912.3	516.2	188.7	170.6	148.7	122.3	99.6	83.0	77.0	78.5
45°	2556.0	2166.6	397.7	176.6	158.5	131.3	102.6	78.5	64.9	61.9	63.4
47.5°	3093.3	2495.6	306.4	163.0	143.4	112.4	80.7	61.9	53.6	52.8	52.1
50°	3598.9	2802.0	255.8	147.9	125.3	93.6	66.4	52.1	46.8	46.0	46.0
52.5°	4056.2	3021.6	208.3	130.6	105.7	77.0	55.8	46.0	41.5	39.2	39.2
55°	4463.0	3165.0	169.0	109.4	83.0	61.1	48.3	41.5	36.2	33.2	32.4
57.5°	4770.1	3182.3	126.8	87.5	61.9	47.5	41.5	36.2	30.2	26.4	24.9
60°	4901.4	3032.2	93.6	66.4	46.0	37.7	33.2	29.4	22.6	18.9	18.1
62.5°	4769.4	2740.1	69.4	50.6	35.5	27.9	23.4	21.9	15.8	11.3	10.6
65°	4296.2	2318.3	55.1	38.5	26.4	20.4	15.1	14.3	9.8	5.3	4.5
67.5°	3441.9	1815.7	43.8	28.7	18.9	13.6	9.8	9.1	5.3	1.5	1.5
70°	2238.3	1160.6	35.5	21.1	12.1	9.1	6.0	4.5	3.0	0.8	0.0
72.5°	1107.1	542.6	28.7	16.6	8.3	4.5	2.3	1.5	2.3	0.0	0.0
75°	429.4	193.2	21.1	11.3	4.5	2.3	1.5	0.0	0.8	0.0	0.0
77.5°	142.6	64.1	12.8	6.0	3.0	1.5	0.0	0.0	0.0	0.0	0.0
80°	52.8	24.9	6.8	3.8	1.5	0.8	0.0	0.0	0.0	0.0	0.0
82.5°	21.1	9.8	4.5	3.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	10.6	6.0	3.0	2.3	1.5	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.5	4.5	3.0	2.3	1.5	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)