

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: P453929

Luminaire Tested: **GALN-SA5A-727-U-T4W-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453929
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-SA5A-727-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 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: 13855 lumens
Efficiency: N/A
Efficacy: 90.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G3

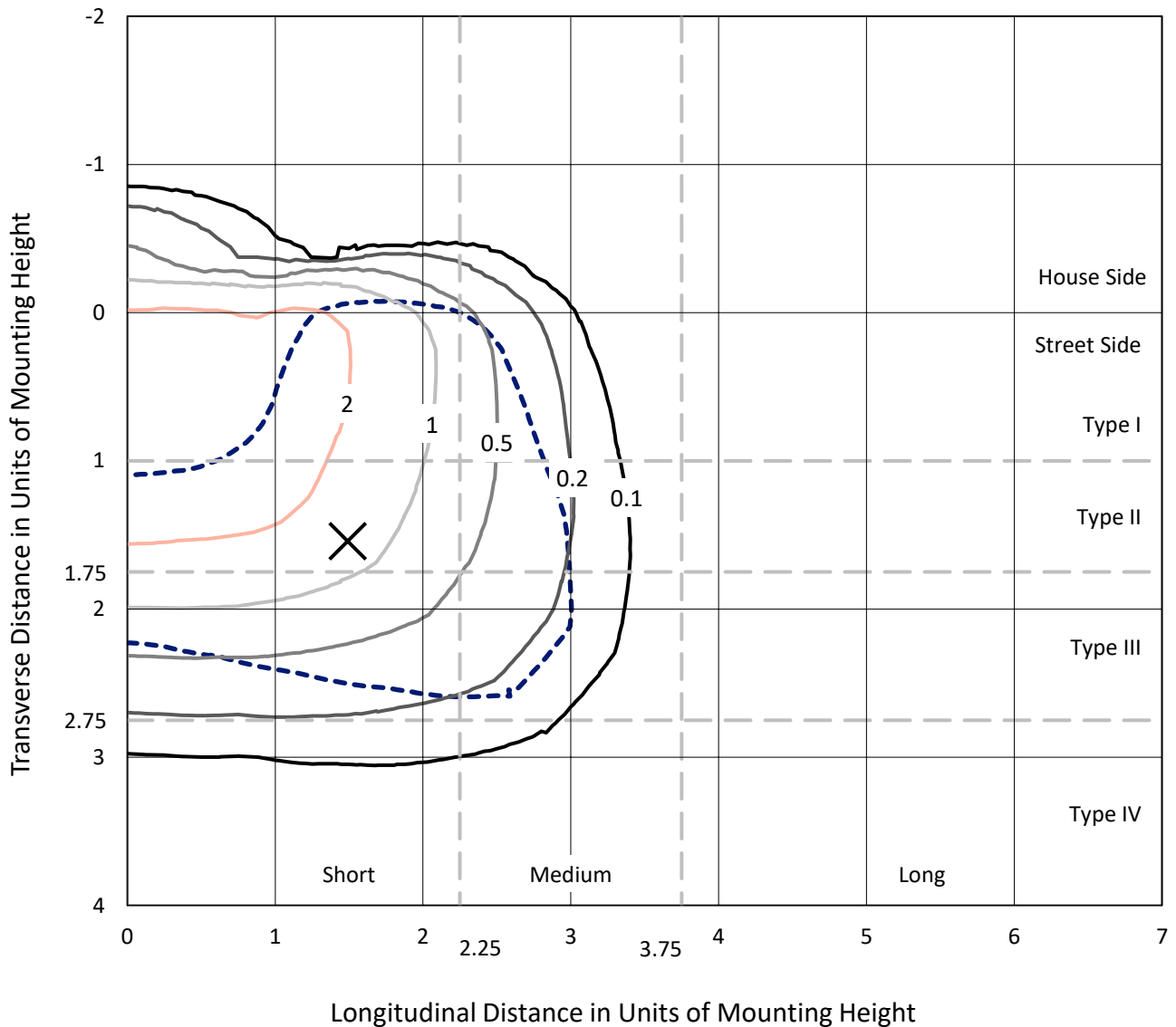
Input Watts (W): 154
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

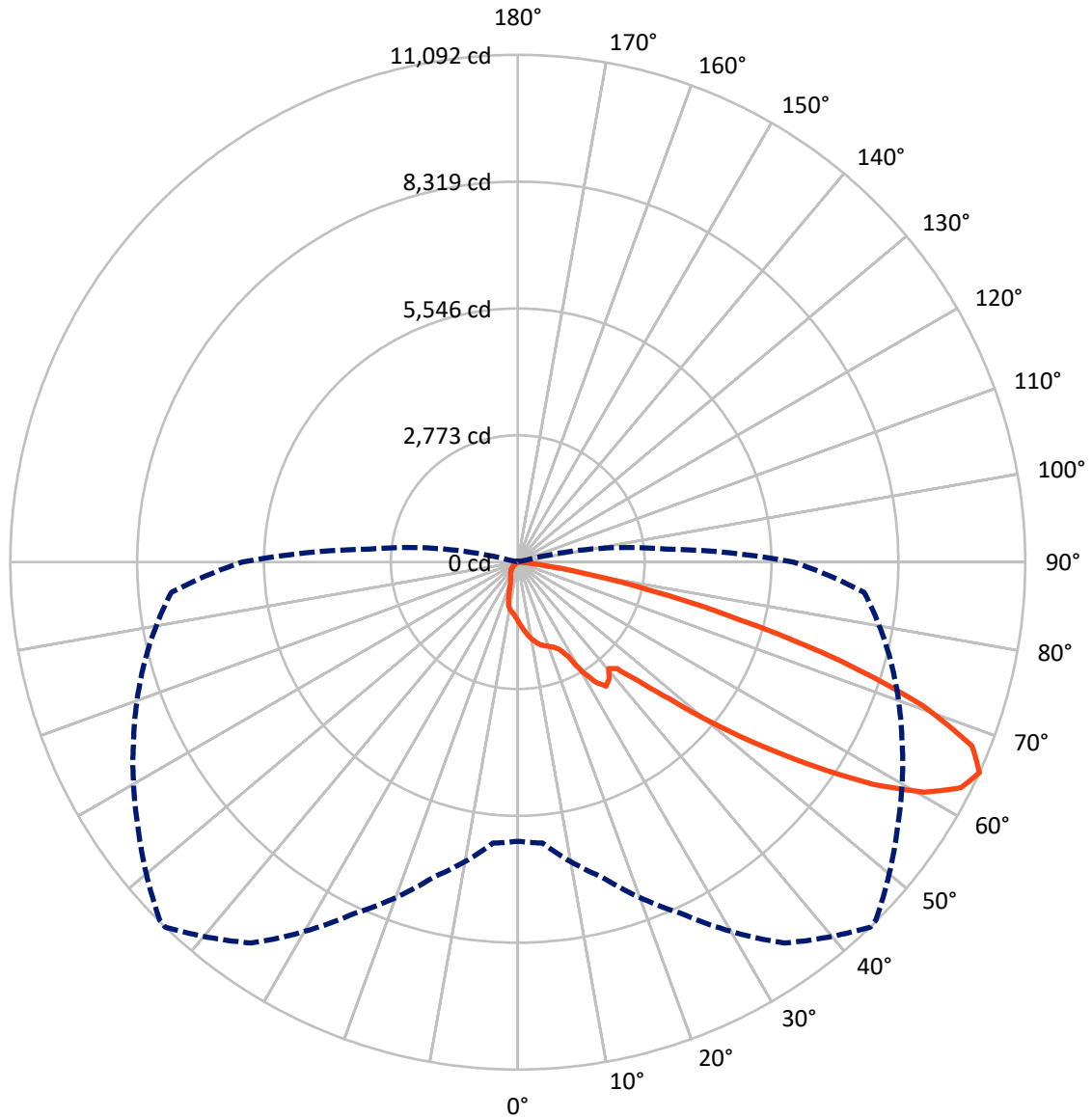
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 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	1276.5	0.0	1276.5
	% Fixture	9.2	0.0	9.2
Street Side	Lumens	12578.5	0.0	12578.5
	% Fixture	90.8	0.0	90.8
Total	Lumens	13855.0	0.0	13855.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.2	0.9
10°-20°	386.0	2.8
20°-30°	654.5	4.7
30°-40°	1088.2	7.9
40°-50°	1900.1	13.7
50°-60°	3712.1	26.8
60°-70°	4306.9	31.1
70°-80°	1568.4	11.3
80°-90°	110.5	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°	13855.0	100.0
0°-180°	13855.0	100.0



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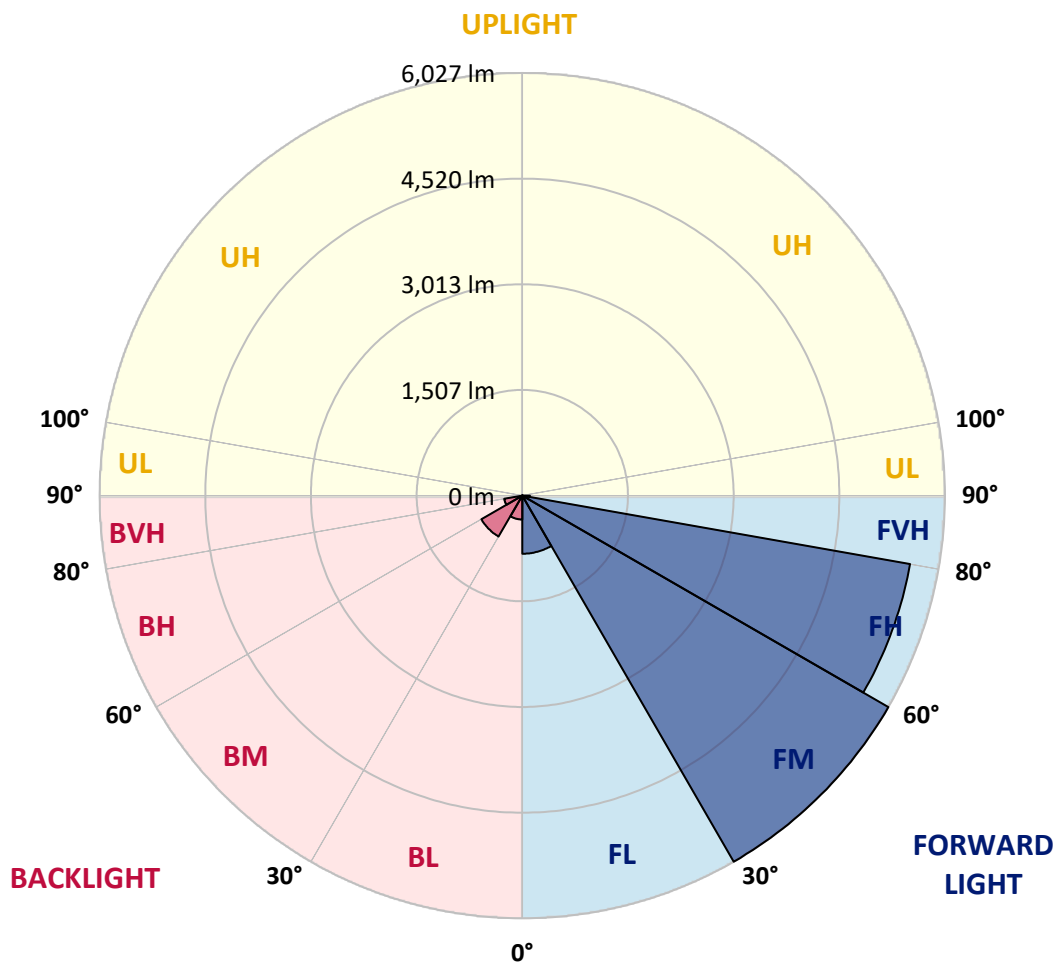
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	828.7	6.0			
FM (30°-60°)	6027.0	43.5			
FH (60°-80°)	5613.9	40.5			G3/7500
FVH (80°-90°)	109.0	0.8			G2/225
BL (0°-30°)	340.1	2.5	B1/500		
BM (30°-60°)	673.5	4.9	B1/1000		
BH (60°-80°)	261.4	1.9	B1/500		G1/500
BVH (80°-90°)	1.5	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-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	1289.5	1289.5	1289.5	1289.5	1289.5	1289.5	1289.5	1289.5	1289.5	1289.5	1289.5
2.5°	1451.5	1445.1	1441.9	1425.0	1412.3	1396.4	1396.4	1376.3	1353.0	1327.6	1304.3
5°	1613.4	1602.9	1589.1	1574.3	1544.6	1502.3	1502.3	1459.9	1411.2	1367.8	1320.2
7.5°	1769.1	1759.5	1736.3	1707.7	1659.0	1614.5	1611.3	1549.9	1491.7	1426.1	1358.3
10°	1905.6	1898.2	1878.1	1823.1	1772.3	1714.0	1713.0	1644.1	1576.4	1495.9	1412.3
12.5°	2000.9	2002.0	1975.5	1922.6	1856.9	1801.9	1797.7	1729.9	1659.0	1572.2	1469.5
15°	2068.7	2068.7	2041.2	1981.9	1922.6	1873.9	1869.7	1810.4	1737.3	1643.1	1531.9
17.5°	2087.7	2094.1	2064.5	2011.5	1963.9	1921.5	1920.5	1870.7	1812.5	1721.4	1595.4
20°	2080.3	2086.7	2063.4	2022.1	1989.3	1964.9	1961.8	1941.6	1887.6	1801.9	1663.2
22.5°	2064.5	2070.8	2053.9	2029.5	2013.6	2021.0	2015.8	2032.7	2004.1	1900.4	1743.7
25°	2067.6	2074.0	2061.3	2047.5	2061.3	2106.8	2120.6	2193.6	2168.2	2025.3	1830.5
27.5°	2167.1	2179.8	2161.8	2168.2	2216.9	2322.8	2349.2	2475.2	2363.0	2184.1	1966.0
30°	2388.4	2379.9	2346.1	2376.8	2546.2	2770.6	2763.2	2743.1	2567.3	2367.2	2126.9
32.5°	2589.6	2582.2	2580.0	2712.4	3019.4	3128.4	3123.1	2928.3	2750.5	2576.9	2285.7
35°	2671.1	2642.5	2636.1	2956.9	3470.4	3326.4	3293.6	3004.6	2972.8	2805.5	2447.7
37.5°	2916.7	2896.6	2798.1	2997.2	3290.4	3242.8	3217.4	3135.8	3210.0	3007.7	2630.9
40°	3422.8	3366.6	3277.7	3082.9	3035.3	3055.4	3080.8	3304.2	3490.5	3284.1	2875.4
42.5°	4051.6	4038.9	3873.8	3510.6	3153.8	3181.4	3214.2	3655.7	3893.9	3700.1	3274.5
45°	4806.5	4824.5	4586.3	4157.5	3689.5	3712.8	3760.5	4174.4	4440.2	4347.0	3902.3
47.5°	5492.5	5478.7	5398.3	4952.6	4520.6	4468.7	4546.0	4840.3	5196.1	5210.9	4681.5
50°	6182.8	6255.8	6136.2	5961.5	5640.7	5531.7	5503.1	5647.1	6189.1	6118.2	5617.4
52.5°	7174.8	7212.9	6988.4	6944.0	7017.0	6663.4	6634.8	6669.8	7154.6	6911.1	6318.3
55°	7798.3	7776.1	7692.5	8039.7	8328.7	7887.3	7851.3	7710.5	7956.1	7471.2	6992.7
57.5°	7995.2	8027.0	8221.8	8849.6	9533.5	9158.7	9093.1	8692.9	8534.1	7993.1	7613.1
60°	7907.4	7965.6	8385.9	9319.7	10268.3	10212.1	10156.0	9483.8	8949.1	8429.3	8048.2
62.5°	7281.7	7363.2	8035.5	9236.0	10517.1	10867.5	10797.6	9977.1	9225.4	8641.0	8124.4
65°	6102.3	6162.6	7128.2	8476.9	10163.4	11091.9	11066.5	10131.7	9268.9	8447.3	7602.5
67.5°	4350.2	4555.6	5450.1	7144.1	9117.5	10708.7	10752.1	9946.4	8861.3	7609.9	6296.0
70°	2734.6	2874.3	3515.9	5114.5	7309.2	9394.8	9537.8	9098.4	7690.3	5931.9	4214.7
72.5°	1304.3	1408.1	1865.4	3237.5	5159.0	7391.8	7505.1	7469.1	5946.7	3737.2	2174.6
75°	581.2	620.4	890.4	1652.6	3330.6	4968.4	5261.7	5310.4	3716.0	1828.4	845.9
77.5°	296.4	297.5	417.1	800.4	1663.2	2964.3	3022.6	3193.0	2014.7	805.7	294.3
80°	157.7	168.3	221.3	378.0	862.8	1459.9	1452.5	1596.5	893.5	394.9	98.5
82.5°	70.9	78.3	124.9	198.0	421.4	553.7	597.1	653.2	383.2	252.0	43.4
85°	21.2	25.4	61.4	99.5	152.5	159.9	178.9	230.8	217.0	178.9	22.2
87.5°	3.2	3.2	25.4	27.5	22.2	28.6	29.6	32.8	69.9	65.6	11.6
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°	1289.5	1289.5	1289.5	1289.5	1289.5	1289.5	1289.5	1289.5	1289.5	1289.5	1289.5
2.5°	1291.6	1284.2	1257.7	1235.5	1216.4	1204.8	1191.0	1182.6	1178.3	1175.1	1176.2
5°	1296.9	1278.9	1233.4	1197.4	1169.9	1140.2	1120.1	1108.5	1103.2	1094.7	1094.7
7.5°	1326.5	1298.0	1234.4	1179.4	1131.7	1091.5	1053.4	1039.6	1030.1	1028.0	1025.9
10°	1368.9	1332.9	1246.1	1169.9	1102.1	1047.0	993.1	945.4	908.4	886.1	882.9
12.5°	1421.8	1369.9	1264.1	1163.5	1076.7	979.3	836.4	740.0	675.4	655.3	658.5
15°	1470.5	1414.4	1282.1	1158.2	1030.1	812.0	650.0	539.9	507.1	503.9	505.0
17.5°	1528.8	1462.1	1303.3	1150.8	902.0	620.4	482.8	453.1	459.5	470.1	469.0
20°	1589.1	1512.9	1328.7	1106.3	719.9	466.9	426.7	429.8	439.4	448.9	451.0
22.5°	1653.7	1571.1	1358.3	999.4	549.5	406.5	404.4	408.7	418.2	428.8	430.9
25°	1742.6	1644.1	1380.5	859.7	416.1	375.8	380.1	387.5	396.0	407.6	409.7
27.5°	1856.9	1742.6	1392.2	677.6	360.0	348.3	349.4	360.0	370.5	381.1	381.1
30°	2005.2	1860.1	1368.9	512.4	332.4	321.8	317.6	324.0	337.7	348.3	349.4
32.5°	2137.5	1971.3	1307.5	391.7	312.3	297.5	286.9	288.0	293.3	299.6	300.7
35°	2269.8	2079.3	1202.7	329.3	291.1	274.2	258.3	249.9	245.6	242.4	245.6
37.5°	2439.2	2213.7	1062.9	299.6	273.1	252.0	229.7	211.7	196.9	187.4	189.5
40°	2657.3	2400.1	897.8	280.6	256.2	230.8	201.2	177.9	152.5	144.0	139.7
42.5°	3017.3	2682.7	724.1	264.7	239.3	208.6	171.5	139.7	116.5	108.0	110.1
45°	3585.8	3039.5	557.9	247.7	222.3	184.2	144.0	110.1	91.0	86.8	88.9
47.5°	4339.6	3501.1	429.8	228.7	201.2	157.7	113.3	86.8	75.2	74.1	73.0
50°	5048.9	3930.9	358.9	207.5	175.7	131.3	93.2	73.0	65.6	64.6	64.6
52.5°	5690.5	4239.0	292.2	183.2	148.2	108.0	78.3	64.6	58.2	55.1	55.1
55°	6261.1	4440.2	237.1	153.5	116.5	85.8	67.8	58.2	50.8	46.6	45.5
57.5°	6692.0	4464.5	177.9	122.8	86.8	66.7	58.2	50.8	42.3	37.1	34.9
60°	6876.2	4253.8	131.3	93.2	64.6	52.9	46.6	41.3	31.8	26.5	25.4
62.5°	6690.9	3844.1	97.4	70.9	49.8	39.2	32.8	30.7	22.2	15.9	14.8
65°	6027.1	3252.3	77.3	54.0	37.1	28.6	21.2	20.1	13.8	7.4	6.4
67.5°	4828.7	2547.2	61.4	40.2	26.5	19.1	13.8	12.7	7.4	2.1	2.1
70°	3140.1	1628.3	49.8	29.6	16.9	12.7	8.5	6.4	4.2	1.1	0.0
72.5°	1553.1	761.2	40.2	23.3	11.6	6.4	3.2	2.1	3.2	0.0	0.0
75°	602.4	271.0	29.6	15.9	6.4	3.2	2.1	0.0	1.1	0.0	0.0
77.5°	200.1	90.0	18.0	8.5	4.2	2.1	0.0	0.0	0.0	0.0	0.0
80°	74.1	34.9	9.5	5.3	2.1	1.1	0.0	0.0	0.0	0.0	0.0
82.5°	29.6	13.8	6.4	4.2	2.1	0.0	0.0	0.0	0.0	0.0	0.0
85°	14.8	8.5	4.2	3.2	2.1	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	10.6	6.4	4.2	3.2	2.1	1.1	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)