

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: P452421

Luminaire Tested: **GALN-SA3B-760-U-T4W-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452421
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-SA3B-760-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 5700K, 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: 12288 lumens
Efficiency: N/A
Efficacy: 101.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

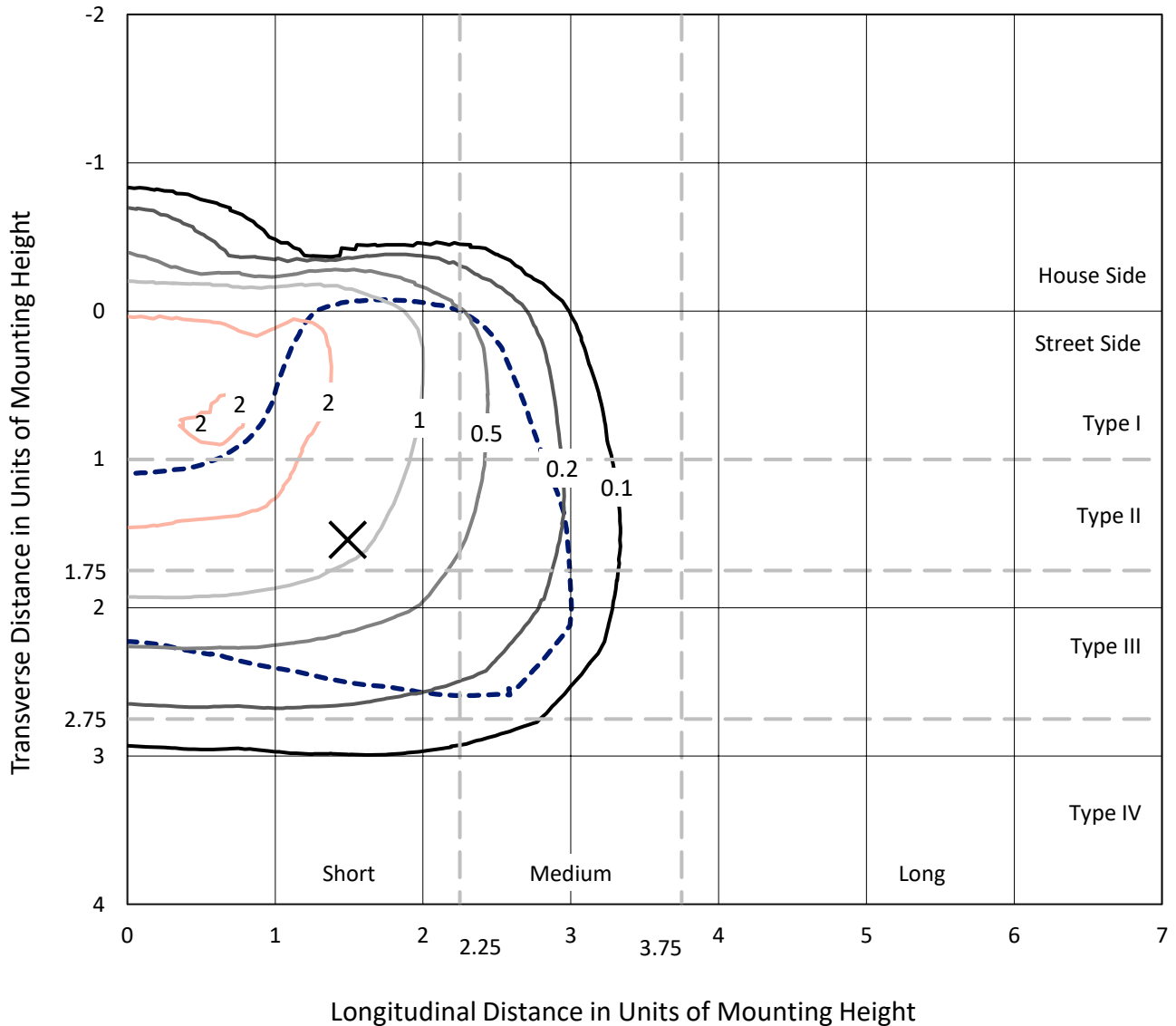
Input Watts (W): 121
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

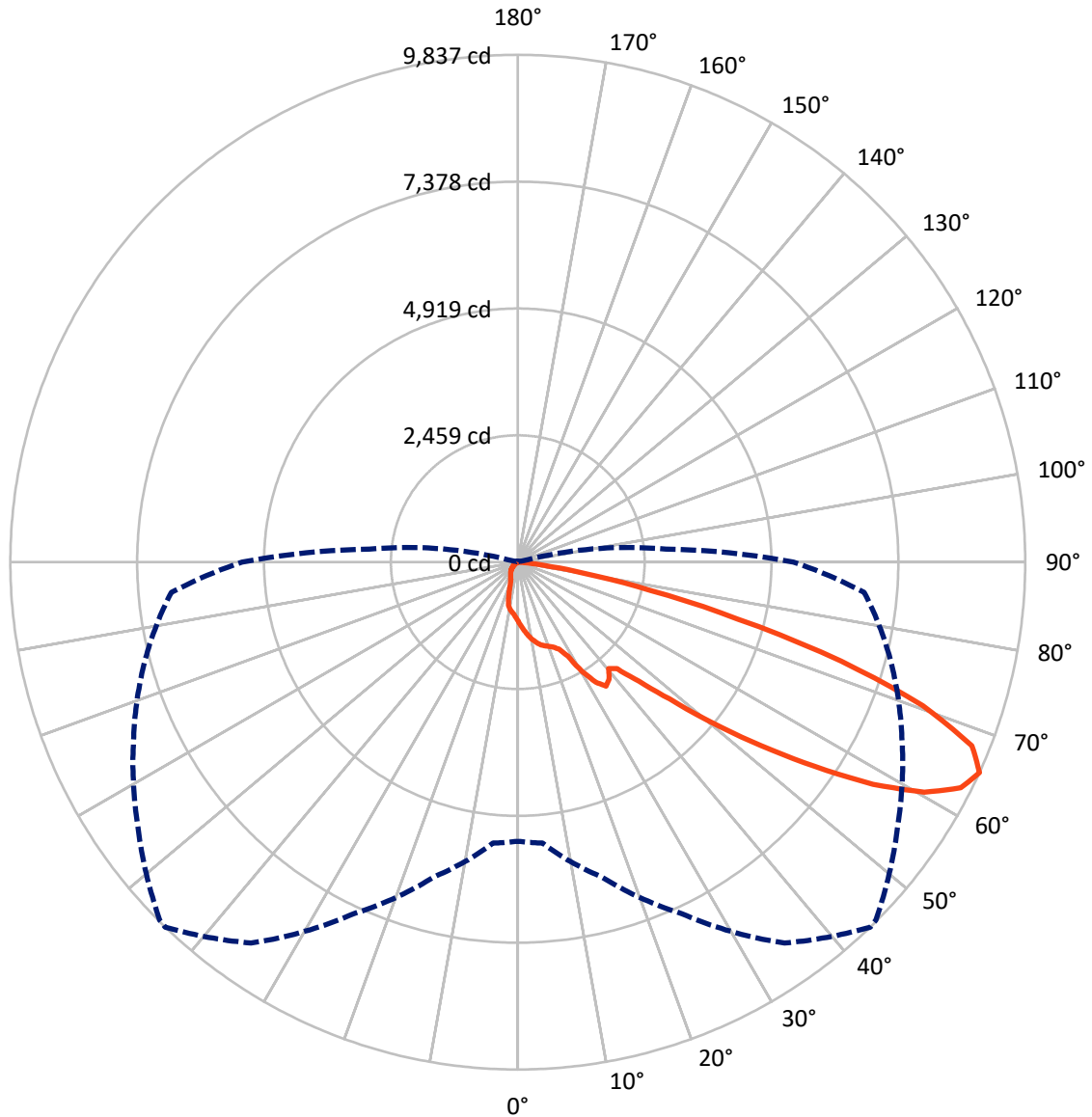
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 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	1132.2	0.0	1132.2
	% Fixture	9.2	0.0	9.2
Street Side	Lumens	11155.8	0.0	11155.8
	% Fixture	90.8	0.0	90.8
Total	Lumens	12288.0	0.0	12288.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.7	0.9
10°-20°	342.3	2.8
20°-30°	580.5	4.7
30°-40°	965.2	7.9
40°-50°	1685.2	13.7
50°-60°	3292.3	26.8
60°-70°	3819.8	31.1
70°-80°	1391.0	11.3
80°-90°	98.0	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°	12288.0	100.0
0°-180°	12288.0	100.0

Coefficient of Utilization



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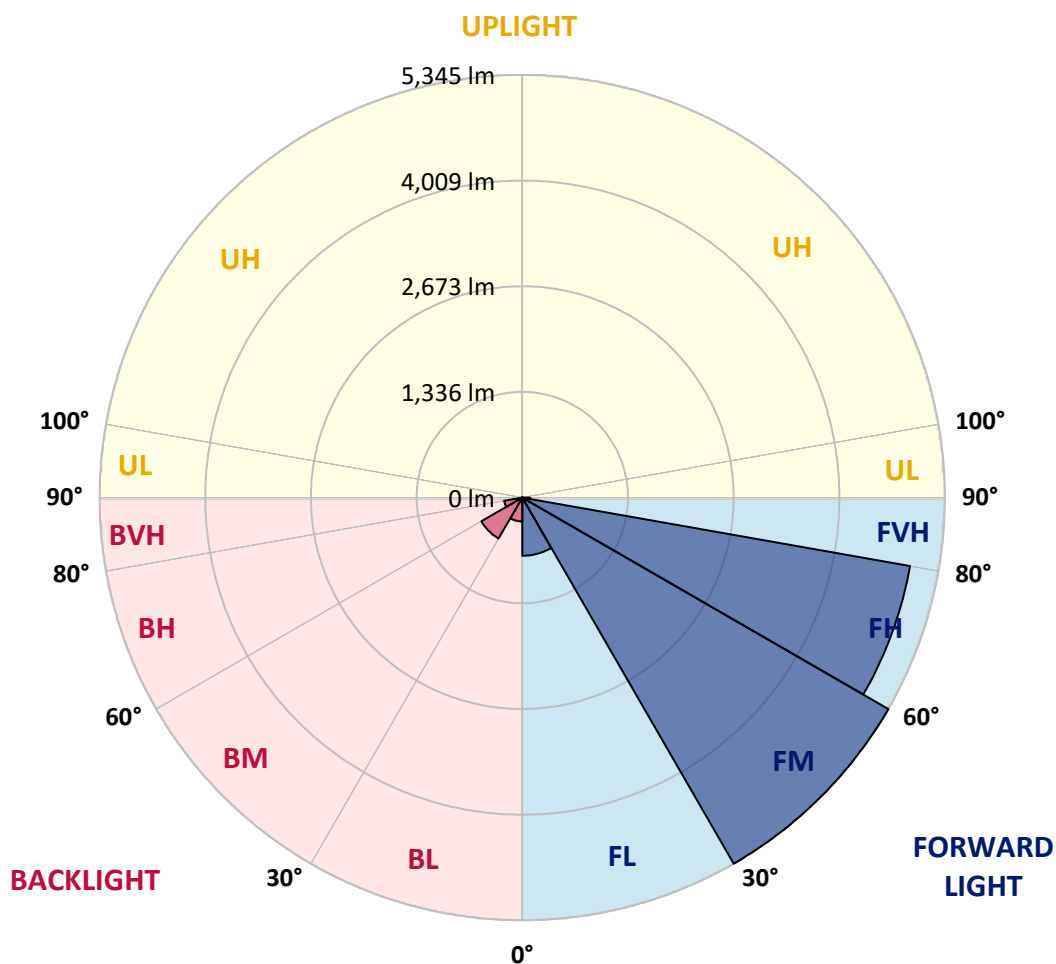
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	734.9	6.0			
FM	(30°-60°)	5345.3	43.5			
FH	(60°-80°)	4978.9	40.5			G2/5000
FVH	(80°-90°)	96.7	0.8			G1/100
BL	(0°-30°)	301.6	2.5	B1/500		
BM	(30°-60°)	597.3	4.9	B1/1000		
BH	(60°-80°)	231.8	1.9	B1/500		G1/500
BVH	(80°-90°)	1.3	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°	1143.6	1143.6	1143.6	1143.6	1143.6	1143.6	1143.6	1143.6	1143.6	1143.6	1143.6
2.5°	1287.3	1281.7	1278.9	1263.8	1252.6	1238.5	1238.5	1220.6	1200.0	1177.4	1156.8
5°	1431.0	1421.6	1409.4	1396.2	1369.9	1332.4	1332.4	1294.8	1251.6	1213.1	1170.9
7.5°	1569.0	1560.5	1539.9	1514.5	1471.3	1431.9	1429.1	1374.6	1323.0	1264.8	1204.7
10°	1690.1	1683.5	1665.7	1616.9	1571.8	1520.2	1519.2	1458.2	1398.1	1326.7	1252.6
12.5°	1774.6	1775.6	1752.1	1705.1	1646.9	1598.1	1594.3	1534.3	1471.3	1394.3	1303.3
15°	1834.7	1834.7	1810.3	1757.7	1705.1	1661.9	1658.2	1605.6	1540.8	1457.3	1358.7
17.5°	1851.6	1857.3	1831.0	1784.0	1741.8	1704.2	1703.3	1659.1	1607.5	1526.7	1415.0
20°	1845.0	1850.7	1830.0	1793.4	1764.3	1742.7	1739.9	1722.0	1674.2	1598.1	1475.1
22.5°	1831.0	1836.6	1821.6	1800.0	1785.9	1792.5	1787.8	1802.8	1777.4	1685.4	1546.5
25°	1833.8	1839.4	1828.1	1815.9	1828.1	1868.5	1880.7	1945.5	1923.0	1796.2	1623.5
27.5°	1922.0	1933.3	1917.3	1923.0	1966.2	2060.1	2083.5	2195.3	2095.7	1937.1	1743.6
30°	2118.3	2110.8	2080.7	2108.0	2258.2	2457.2	2450.7	2432.8	2277.0	2099.5	1886.4
32.5°	2296.7	2290.1	2288.2	2405.6	2677.9	2774.6	2769.9	2597.1	2439.4	2285.4	2027.2
35°	2369.0	2343.6	2338.0	2622.5	3077.9	2950.2	2921.1	2664.8	2636.6	2488.2	2170.9
37.5°	2586.8	2569.0	2481.7	2658.2	2918.3	2876.0	2853.5	2781.2	2846.9	2667.6	2333.3
40°	3035.6	2985.9	2907.0	2734.2	2692.0	2709.8	2732.4	2930.5	3095.7	2912.6	2550.2
42.5°	3593.4	3582.1	3435.6	3113.6	2797.1	2821.6	2850.7	3242.2	3453.5	3281.6	2904.2
45°	4262.9	4278.8	4067.6	3687.3	3272.3	3292.9	3335.2	3702.3	3938.0	3855.3	3461.0
47.5°	4871.3	4859.1	4787.7	4392.4	4009.3	3963.3	4031.9	4292.9	4608.4	4621.5	4152.1
50°	5483.5	5548.3	5442.2	5287.3	5002.7	4906.0	4880.7	5008.4	5489.1	5426.2	4982.1
52.5°	6363.3	6397.1	6198.0	6158.6	6223.4	5909.8	5884.4	5915.4	6345.5	6129.5	5603.7
55°	6916.3	6896.6	6822.4	7130.4	7386.8	6995.2	6963.3	6838.4	7056.2	6626.2	6201.8
57.5°	7091.0	7119.2	7291.9	7848.7	8455.3	8122.9	8064.7	7709.8	7568.9	7089.1	6752.0
60°	7013.0	7064.7	7437.5	8265.6	9106.9	9057.2	9007.4	8411.2	7937.0	7476.0	7137.9
62.5°	6458.1	6530.4	7126.7	8191.4	9327.6	9638.4	9576.4	8848.7	8182.0	7663.7	7205.5
65°	5412.1	5465.7	6322.0	7518.2	9014.0	9837.4	9814.9	8985.8	8220.5	7491.9	6742.6
67.5°	3858.2	4040.3	4833.7	6336.1	8086.3	9497.5	9536.0	8821.5	7859.0	6749.2	5584.0
70°	2425.3	2549.3	3118.3	4536.1	6482.5	8332.3	8459.0	8069.4	6820.6	5261.0	3738.0
72.5°	1156.8	1248.8	1654.4	2871.3	4575.5	6555.8	6656.2	6624.3	5274.1	3314.5	1928.6
75°	515.5	550.2	789.7	1465.7	2954.0	4406.5	4666.6	4709.8	3295.7	1621.6	750.2
77.5°	262.9	263.8	369.9	709.8	1475.1	2629.1	2680.7	2831.9	1786.8	714.5	261.0
80°	139.9	149.3	196.2	335.2	765.2	1294.8	1288.2	1415.9	792.5	350.2	87.3
82.5°	62.9	69.5	110.8	175.6	373.7	491.1	529.6	579.3	339.9	223.5	38.5
85°	18.8	22.5	54.5	88.3	135.2	141.8	158.7	204.7	192.5	158.7	19.7
87.5°	2.8	2.8	22.5	24.4	19.7	25.4	26.3	29.1	62.0	58.2	10.3
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°	1143.6	1143.6	1143.6	1143.6	1143.6	1143.6	1143.6	1143.6	1143.6	1143.6	1143.6
2.5°	1145.5	1139.0	1115.5	1095.8	1078.9	1068.5	1056.3	1048.8	1045.1	1042.2	1043.2
5°	1150.2	1134.3	1093.9	1062.0	1037.5	1011.3	993.4	983.1	978.4	970.9	970.9
7.5°	1176.5	1151.2	1094.8	1046.0	1003.7	968.1	934.3	922.1	913.6	911.7	909.8
10°	1214.1	1182.1	1105.1	1037.5	977.5	928.6	880.7	838.5	805.6	785.9	783.1
12.5°	1261.0	1215.0	1121.1	1031.9	954.9	868.5	741.8	656.3	599.1	581.2	584.0
15°	1304.2	1254.4	1137.1	1027.2	913.6	720.2	576.5	478.9	449.8	446.9	447.9
17.5°	1355.9	1296.7	1155.9	1020.6	800.0	550.2	428.2	401.9	407.5	416.9	416.0
20°	1409.4	1341.8	1178.4	981.2	638.5	414.1	378.4	381.2	389.7	398.1	400.0
22.5°	1466.6	1393.4	1204.7	886.4	487.3	360.6	358.7	362.4	370.9	380.3	382.2
25°	1545.5	1458.2	1224.4	762.4	369.0	333.3	337.1	343.7	351.2	361.5	363.4
27.5°	1646.9	1545.5	1234.7	600.9	319.2	308.9	309.9	319.2	328.6	338.0	338.0
30°	1778.4	1649.7	1214.1	454.5	294.8	285.4	281.7	287.3	299.5	308.9	309.9
32.5°	1895.7	1748.3	1159.6	347.4	277.0	263.8	254.5	255.4	260.1	265.7	266.7
35°	2013.1	1844.1	1066.7	292.0	258.2	243.2	229.1	221.6	217.8	215.0	217.8
37.5°	2163.4	1963.4	942.7	265.7	242.3	223.5	203.8	187.8	174.6	166.2	168.1
40°	2356.8	2128.6	796.2	248.8	227.2	204.7	178.4	157.7	135.2	127.7	123.9
42.5°	2676.0	2379.3	642.2	234.7	212.2	185.0	152.1	123.9	103.3	95.8	97.7
45°	3180.2	2695.7	494.8	219.7	197.2	163.4	127.7	97.7	80.8	77.0	78.9
47.5°	3848.8	3105.1	381.2	202.8	178.4	139.9	100.5	77.0	66.7	65.7	64.8
50°	4477.9	3486.3	318.3	184.0	155.9	116.4	82.6	64.8	58.2	57.3	57.3
52.5°	5046.9	3759.6	259.2	162.4	131.5	95.8	69.5	57.3	51.6	48.8	48.8
55°	5553.0	3938.0	210.3	136.1	103.3	76.1	60.1	51.6	45.1	41.3	40.4
57.5°	5935.1	3959.6	157.7	108.9	77.0	59.2	51.6	45.1	37.6	32.9	31.0
60°	6098.5	3772.7	116.4	82.6	57.3	46.9	41.3	36.6	28.2	23.5	22.5
62.5°	5934.2	3409.3	86.4	62.9	44.1	34.7	29.1	27.2	19.7	14.1	13.1
65°	5345.5	2884.5	68.5	47.9	32.9	25.4	18.8	17.8	12.2	6.6	5.6
67.5°	4282.6	2259.1	54.5	35.7	23.5	16.9	12.2	11.3	6.6	1.9	1.9
70°	2784.9	1444.1	44.1	26.3	15.0	11.3	7.5	5.6	3.8	0.9	0.0
72.5°	1377.4	675.1	35.7	20.7	10.3	5.6	2.8	1.9	2.8	0.0	0.0
75°	534.3	240.4	26.3	14.1	5.6	2.8	1.9	0.0	0.9	0.0	0.0
77.5°	177.5	79.8	16.0	7.5	3.8	1.9	0.0	0.0	0.0	0.0	0.0
80°	65.7	31.0	8.5	4.7	1.9	0.9	0.0	0.0	0.0	0.0	0.0
82.5°	26.3	12.2	5.6	3.8	1.9	0.0	0.0	0.0	0.0	0.0	0.0
85°	13.1	7.5	3.8	2.8	1.9	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	9.4	5.6	3.8	2.8	1.9	0.9	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)