

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: P450729

Luminaire Tested: **GALN-SA1C-740-U-T2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450729
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-11)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1C-740-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 4000K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE II OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5318 lumens
Efficiency: N/A
Efficacy: 93.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B0 - U0 - G1

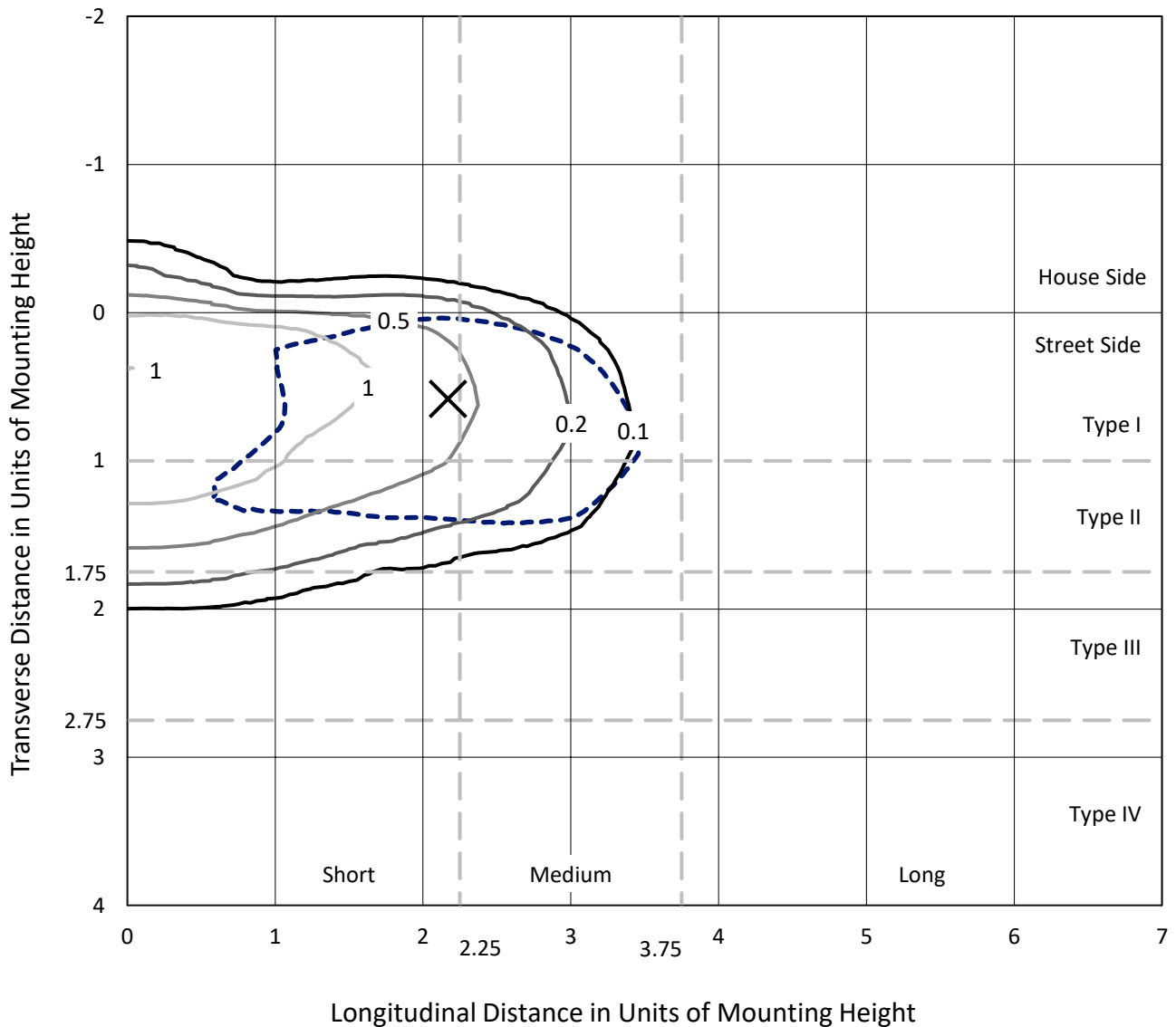
Input Watts (W): 57
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

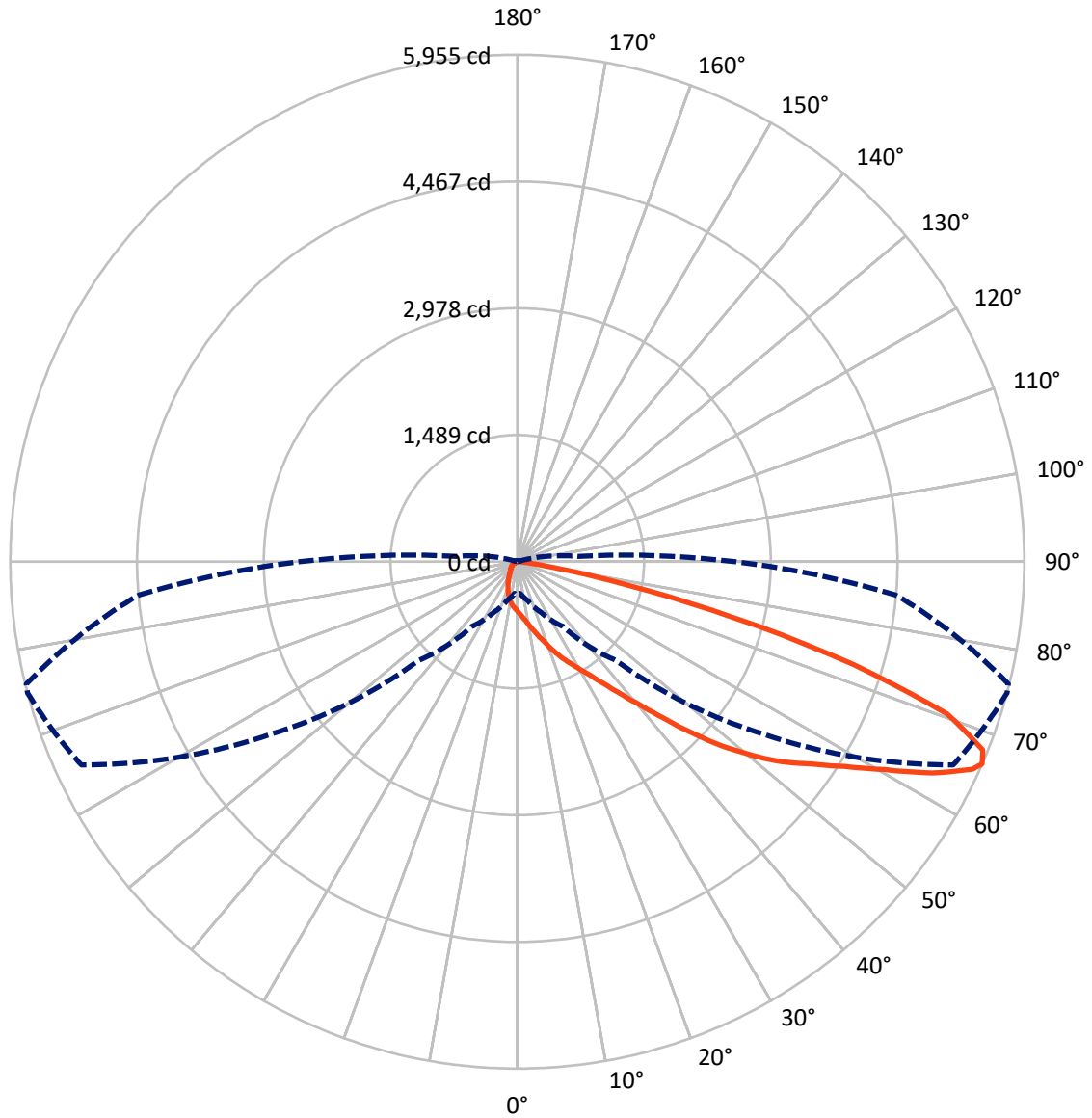
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	328.3	0.0	328.3
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	4989.7	0.0	4989.7
	% Fixture	93.8	0.0	93.8
Total	Lumens	5318.0	0.0	5318.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.1	1.1
10°-20°	165.1	3.1
20°-30°	285.1	5.4
30°-40°	514.2	9.7
40°-50°	928.9	17.5
50°-60°	1448.2	27.2
60°-70°	1375.7	25.9
70°-80°	515.6	9.7
80°-90°	29.1	0.5
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°	5318.0	100.0
0°-180°	5318.0	100.0

Coefficient of Utilization



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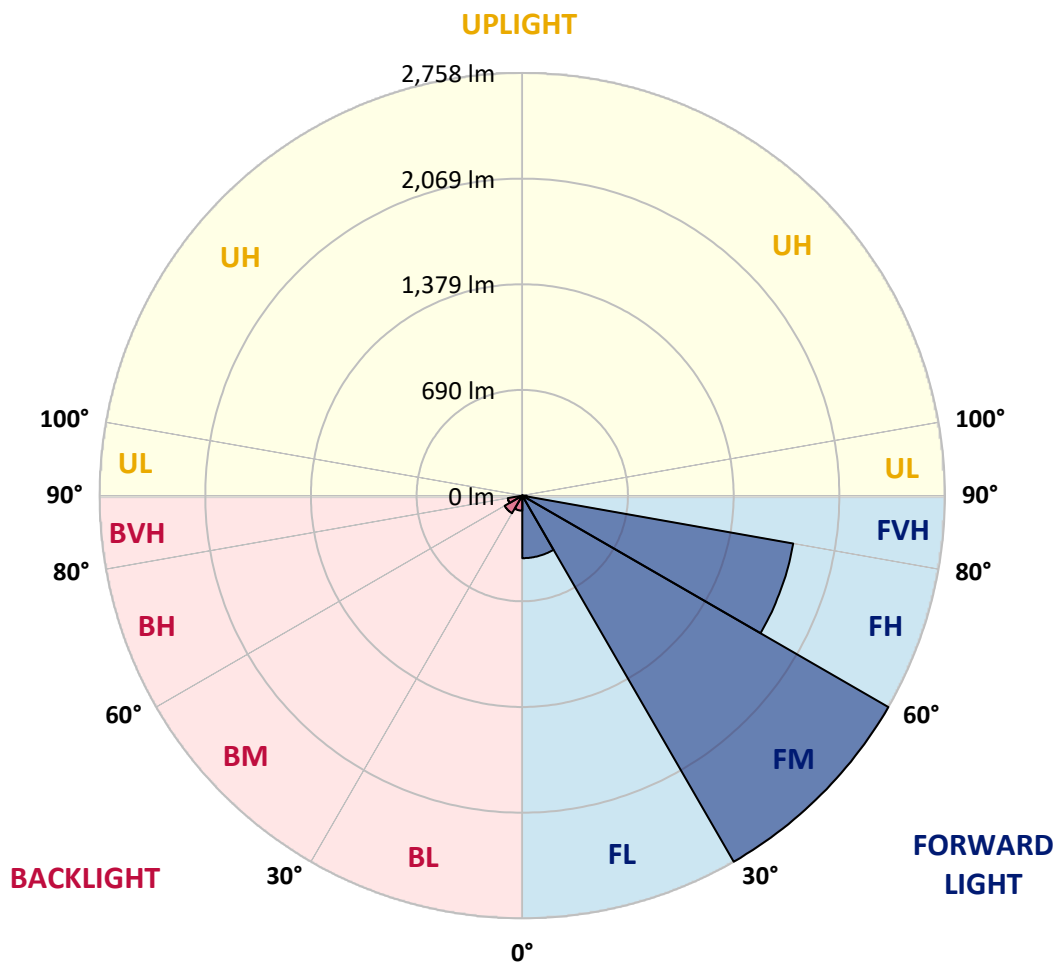
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	408.2	7.7			
FM (30°-60°)	2758.4	51.9			
FH (60°-80°)	1795.5	33.8			G1/1800
FVH (80°-90°)	27.6	0.5			G1/100
BL (0°-30°)	98.0	1.8	B0/110		
BM (30°-60°)	132.9	2.5	B0/220		
BH (60°-80°)	95.9	1.8	B0/110		G0/110
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: B0-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	581.6	581.6	581.6	581.6	581.6	581.6	581.6	581.6	581.6	581.6	581.6
2.5°	694.8	686.2	688.9	685.0	675.9	662.6	650.8	633.9	617.0	614.2	595.3
5°	786.4	784.1	780.9	769.5	763.2	742.8	718.4	689.3	654.3	648.0	613.8
7.5°	849.0	847.8	849.4	843.5	838.0	819.5	793.5	753.8	699.5	696.0	639.0
10°	869.4	872.6	878.5	887.9	896.5	890.6	871.0	821.4	758.1	747.9	667.7
12.5°	857.6	861.2	875.3	900.5	928.4	944.5	936.7	900.5	820.3	812.0	699.9
15°	827.3	831.7	851.7	890.6	940.6	986.2	1005.9	979.9	892.6	879.2	738.9
17.5°	782.5	788.8	817.5	869.0	937.4	1016.1	1071.5	1062.9	969.7	957.1	781.3
20°	748.7	753.4	777.8	836.8	924.1	1032.6	1134.1	1158.4	1064.8	1043.2	831.3
22.5°	771.1	772.7	780.9	816.3	900.1	1036.9	1189.1	1257.9	1165.9	1146.6	883.2
25°	880.8	865.1	856.8	849.0	895.0	1033.0	1239.0	1361.7	1266.6	1246.1	934.7
27.5°	1053.8	1046.8	1005.1	949.2	938.6	1038.1	1272.1	1460.0	1361.3	1339.3	985.0
30°	1242.2	1230.0	1204.4	1122.6	1040.5	1074.3	1296.1	1555.6	1473.4	1444.3	1031.0
32.5°	1415.2	1423.1	1384.9	1300.8	1205.6	1151.4	1327.1	1659.8	1602.0	1565.8	1084.5
35°	1616.9	1632.7	1574.1	1493.5	1382.2	1290.6	1387.7	1777.4	1765.2	1719.6	1167.1
37.5°	1821.8	1831.2	1795.5	1682.2	1581.9	1467.5	1501.7	1922.5	1966.1	1927.2	1265.8
40°	1994.0	2007.0	1980.7	1880.0	1773.0	1672.4	1667.3	2080.5	2205.2	2165.1	1412.8
42.5°	2125.8	2135.6	2136.4	2065.2	1968.9	1923.3	1878.4	2282.3	2504.8	2458.4	1583.5
45°	2292.1	2306.2	2298.0	2249.6	2177.7	2169.4	2146.2	2526.1	2863.4	2804.9	1804.9
47.5°	2549.3	2558.7	2538.3	2481.2	2408.1	2421.1	2407.3	2799.3	3229.1	3178.8	2034.1
50°	2727.8	2743.5	2772.6	2795.4	2742.3	2694.4	2653.5	3054.6	3576.4	3531.1	2268.5
52.5°	2725.8	2751.8	2843.8	2958.6	3074.6	3060.1	2942.5	3336.5	3907.8	3852.0	2488.7
55°	2542.2	2592.5	2727.8	2931.5	3252.7	3412.8	3359.3	3662.9	4194.1	4156.4	2743.9
57.5°	2163.1	2193.8	2381.7	2666.4	3153.3	3578.7	3842.2	4105.2	4537.4	4519.7	3140.3
60°	1454.9	1468.7	1710.5	2062.5	2684.5	3413.2	4196.1	4640.4	4960.1	4951.5	3603.1
62.5°	833.6	839.5	1014.9	1311.8	1910.3	2892.5	4226.0	5300.6	5467.0	5471.7	4138.7
65°	448.7	451.8	593.4	769.9	1162.4	2061.7	3800.1	5662.4	5876.7	5885.8	4470.5
66°	387.3	372.4	472.3	656.3	924.9	1640.9	3530.7	5649.4	5955.4	5945.5	4458.7
67.5°	294.5	307.9	377.1	504.5	685.4	1166.7	2915.0	5398.2	5895.6	5864.9	4277.5
70°	210.8	216.3	268.6	359.8	466.8	640.2	1862.7	4483.5	5358.4	5317.2	3726.6
72.5°	136.1	142.0	190.3	260.3	337.4	349.6	1042.8	3239.4	4131.2	4125.3	2806.4
75°	97.1	102.6	125.8	186.4	253.6	216.3	502.1	2183.2	2626.3	2608.6	1736.1
77.5°	70.4	73.1	84.1	121.9	181.3	154.9	232.8	1165.9	1307.5	1369.2	767.2
80°	40.5	42.9	58.6	74.3	122.7	105.8	111.3	467.9	482.5	459.3	239.9
82.5°	20.1	22.8	35.0	50.7	76.7	71.2	51.1	140.8	148.6	144.7	60.6
85°	4.7	5.9	19.7	33.4	37.4	31.9	24.8	41.3	51.1	49.9	23.2
87.5°	0.4	0.8	7.1	5.9	6.3	10.6	8.7	10.6	16.5	15.3	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°	581.6	581.6	581.6	581.6	581.6	581.6	581.6	581.6	581.6	581.6	581.6
2.5°	586.7	579.2	557.6	536.4	518.7	500.2	483.3	473.4	469.5	465.2	467.1
5°	594.9	576.9	533.2	495.5	458.5	427.0	401.9	385.8	377.9	376.7	374.7
7.5°	606.0	574.9	507.3	448.3	399.9	364.9	336.2	313.0	305.9	299.6	294.5
10°	619.3	571.4	475.0	398.7	347.2	303.2	265.4	237.9	223.7	219.8	222.6
12.5°	633.5	564.7	441.2	353.1	293.7	237.5	202.5	188.7	184.8	183.2	183.6
15°	647.6	556.4	405.8	309.1	234.0	189.5	173.4	169.9	168.3	167.5	166.7
17.5°	660.6	543.0	366.1	266.2	189.5	162.0	156.1	153.0	149.8	148.6	146.7
20°	675.9	527.7	330.3	218.2	160.4	146.7	139.6	133.7	129.0	125.8	125.4
22.5°	690.5	508.0	293.0	180.9	146.3	131.7	120.3	114.0	108.5	104.6	105.8
25°	698.4	484.1	259.5	157.7	133.3	116.8	104.2	96.3	90.4	88.5	88.1
27.5°	698.4	454.6	226.9	144.3	121.5	103.4	90.4	83.0	79.0	76.3	76.7
30°	692.9	421.9	196.6	134.1	111.3	91.6	79.4	72.7	69.6	67.6	67.2
32.5°	688.5	390.9	170.7	124.3	100.7	81.4	70.8	65.7	62.5	60.6	60.6
35°	695.2	364.1	150.6	114.4	90.8	73.5	64.1	59.4	56.2	54.7	54.3
37.5°	712.9	339.7	135.3	103.8	81.8	66.8	59.4	53.9	50.7	48.8	48.0
40°	756.6	326.0	123.9	94.0	73.1	61.3	53.9	48.8	44.8	42.9	42.5
42.5°	826.6	326.4	112.9	84.9	66.5	56.6	49.2	43.3	38.9	37.0	36.6
45°	931.9	341.3	104.2	76.3	60.6	51.5	44.0	37.7	33.8	31.9	31.9
47.5°	1058.2	370.4	96.7	68.8	55.1	46.8	38.9	32.6	28.7	27.1	27.1
50°	1195.0	408.2	89.3	60.9	50.3	41.7	33.4	28.3	25.2	24.0	24.0
52.5°	1334.6	453.8	81.8	54.7	45.2	36.2	28.7	25.2	22.4	21.6	21.2
55°	1517.8	512.0	73.9	48.0	39.7	31.1	25.6	22.0	18.9	17.7	17.3
57.5°	1799.8	599.7	65.3	42.1	32.6	26.0	22.0	18.5	14.9	13.0	12.6
60°	2139.9	706.6	56.2	37.0	26.3	21.2	17.7	14.2	11.0	8.7	8.3
62.5°	2458.4	774.6	47.6	31.1	20.8	16.1	12.6	10.6	7.9	5.5	5.1
65°	2599.2	751.8	39.3	25.2	16.5	11.4	8.3	7.5	4.7	2.4	2.0
66°	2552.4	718.0	36.2	22.8	14.9	9.8	7.1	6.3	3.5	1.2	1.2
67.5°	2414.4	638.2	31.5	19.7	13.0	7.9	5.5	4.7	2.0	0.4	0.0
70°	2068.7	516.3	24.8	14.5	9.4	5.5	3.1	2.4	1.2	0.0	0.0
72.5°	1589.0	384.6	19.7	11.0	6.7	3.1	1.6	0.8	1.2	0.0	0.0
75°	973.6	219.8	15.3	8.3	4.3	2.0	1.2	0.0	1.2	0.4	0.0
77.5°	432.2	98.7	10.2	5.5	3.1	1.6	0.8	0.0	0.8	0.4	0.0
80°	109.3	32.2	5.9	3.9	2.4	1.2	0.4	0.0	0.8	0.8	0.4
82.5°	29.9	11.8	4.3	3.1	2.0	1.2	0.4	0.0	0.8	0.8	0.8
85°	11.8	5.5	3.9	3.1	2.4	1.2	0.4	0.0	0.8	0.8	0.8
87.5°	5.5	3.9	3.9	3.5	2.8	1.2	0.4	0.0	0.8	0.4	0.8
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)