

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: P450671

Luminaire Tested: **GALN-SA1C-727-U-T2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450671
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-727-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 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: 4447 lumens
Efficiency: N/A
Efficacy: 78.0 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

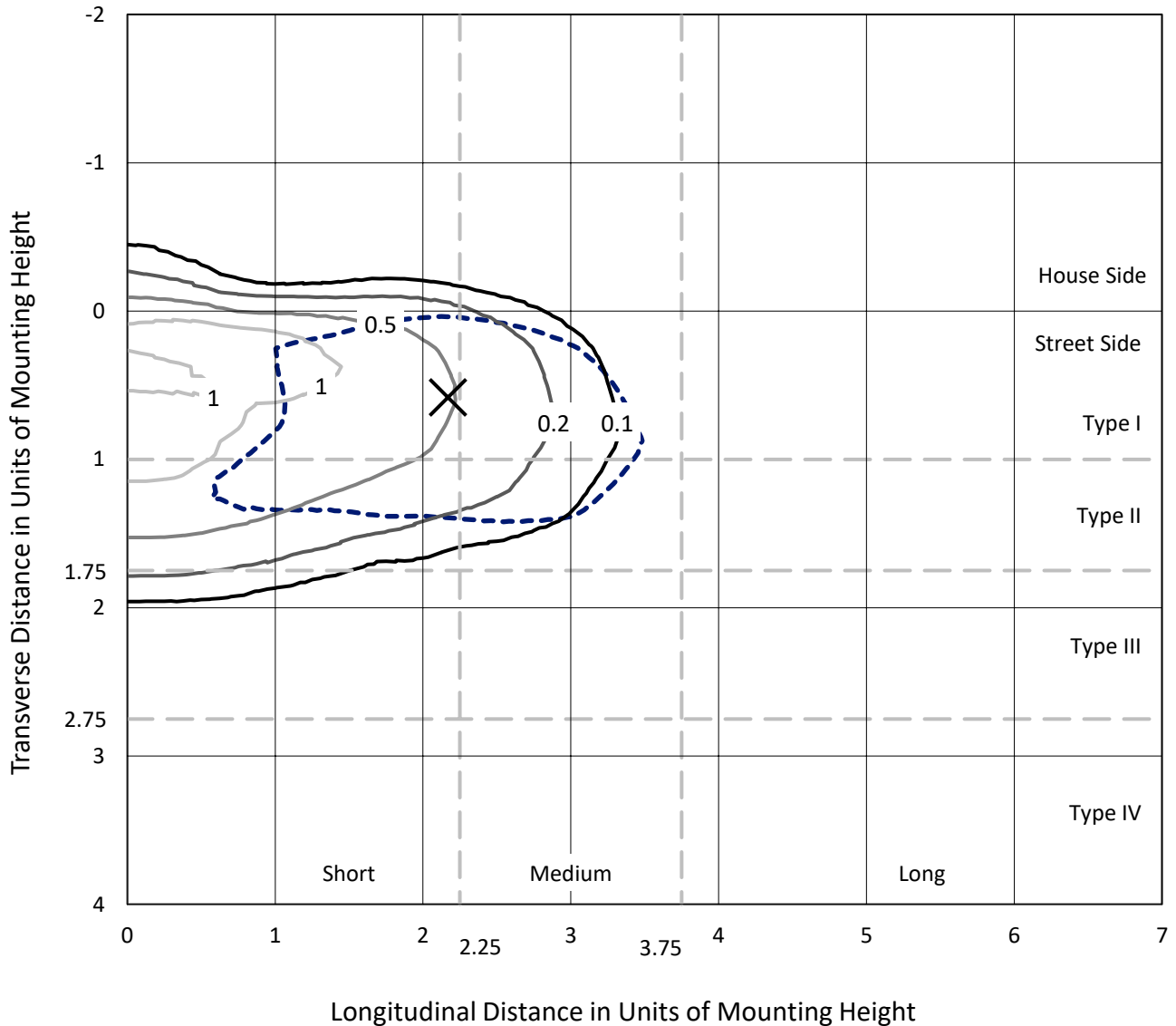
Input Watts (W): 57
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

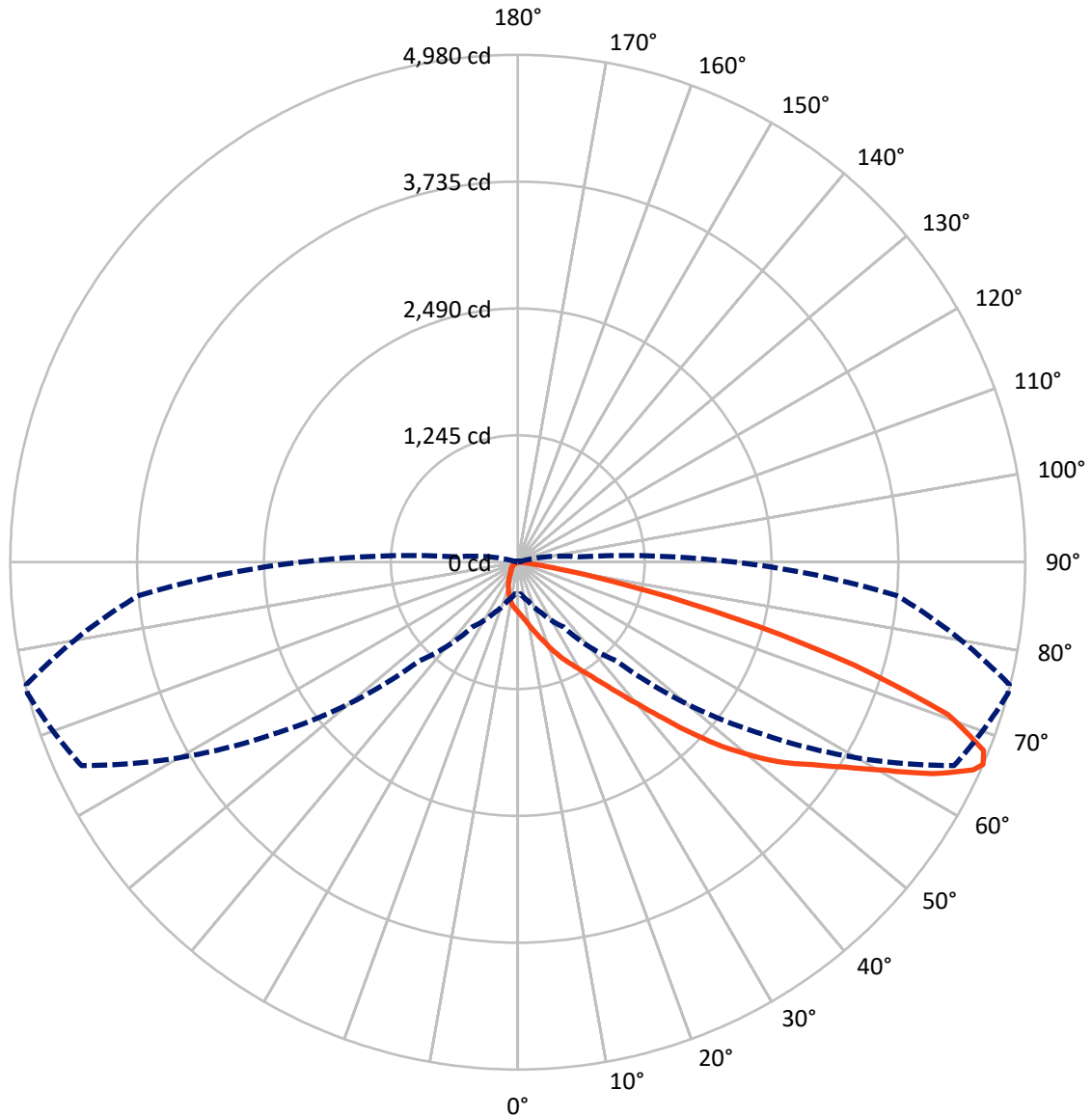
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 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	274.5	0.0	274.5
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	4172.5	0.0	4172.5
	% Fixture	93.8	0.0	93.8
Total	Lumens	4447.0	0.0	4447.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.9	1.1
10°-20°	138.0	3.1
20°-30°	238.4	5.4
30°-40°	430.0	9.7
40°-50°	776.8	17.5
50°-60°	1211.0	27.2
60°-70°	1150.4	25.9
70°-80°	431.1	9.7
80°-90°	24.3	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°	4447.0	100.0
0°-180°	4447.0	100.0

Coefficient of Utilization



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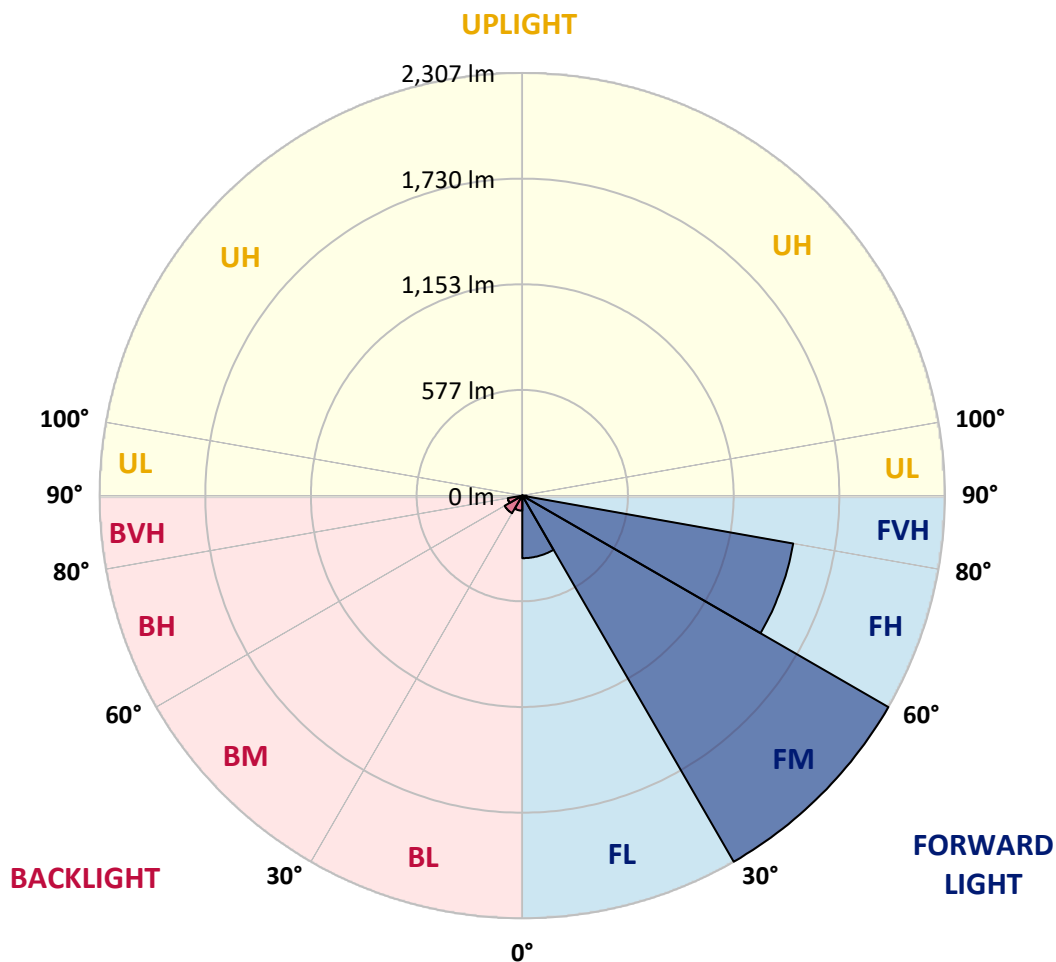
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	341.3	7.7			
FM	(30°-60°)	2306.7	51.9			
FH	(60°-80°)	1501.4	33.8			G1/1800
FVH	(80°-90°)	23.1	0.5			G1/100
BL	(0°-30°)	82.0	1.8	B0/110		
BM	(30°-60°)	111.1	2.5	B0/220		
BH	(60°-80°)	80.2	1.8	B0/110		G0/110
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: 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°	486.3	486.3	486.3	486.3	486.3	486.3	486.3	486.3	486.3	486.3	486.3
2.5°	581.0	573.8	576.1	572.8	565.2	554.1	544.2	530.1	515.9	513.6	497.8
5°	657.6	655.7	653.0	643.5	638.2	621.1	600.8	576.4	547.2	541.9	513.3
7.5°	709.9	708.9	710.2	705.3	700.7	685.3	663.6	630.3	585.0	582.0	534.3
10°	727.0	729.6	734.6	742.5	749.7	744.8	728.3	686.9	634.0	625.4	558.3
12.5°	717.2	720.1	732.0	753.0	776.3	789.8	783.2	753.0	685.9	679.0	585.3
15°	691.8	695.5	712.2	744.8	786.5	824.7	841.1	819.4	746.4	735.2	617.9
17.5°	654.3	659.6	683.6	726.7	783.9	849.7	896.0	888.8	810.9	800.3	653.4
20°	626.1	630.0	650.4	699.7	772.7	863.5	948.3	968.7	890.4	872.4	695.1
22.5°	644.8	646.1	653.0	682.6	752.7	867.1	994.3	1051.9	974.9	958.8	738.5
25°	736.6	723.4	716.5	709.9	748.4	863.8	1036.1	1138.7	1059.1	1042.0	781.6
27.5°	881.2	875.3	840.5	793.8	784.9	868.1	1063.7	1220.9	1138.4	1120.0	823.7
30°	1038.7	1028.5	1007.2	938.8	870.1	898.3	1083.8	1300.8	1232.1	1207.8	862.2
32.5°	1183.4	1190.0	1158.1	1087.7	1008.2	962.8	1109.8	1387.9	1339.6	1309.4	906.9
35°	1352.1	1365.3	1316.3	1248.9	1155.8	1079.2	1160.4	1486.3	1476.1	1437.9	975.9
37.5°	1523.4	1531.3	1501.4	1406.7	1322.8	1227.2	1255.8	1607.6	1644.1	1611.5	1058.5
40°	1667.4	1678.3	1656.3	1572.1	1482.6	1398.5	1394.2	1739.8	1844.0	1810.5	1181.4
42.5°	1777.6	1785.8	1786.5	1727.0	1646.4	1608.3	1570.8	1908.5	2094.6	2055.8	1324.2
45°	1916.7	1928.5	1921.6	1881.2	1821.0	1814.1	1794.7	2112.3	2394.5	2345.5	1509.3
47.5°	2131.7	2139.6	2122.5	2074.8	2013.7	2024.5	2013.0	2340.9	2700.3	2658.2	1701.0
50°	2281.0	2294.2	2318.5	2337.6	2293.2	2253.1	2218.9	2554.3	2990.6	2952.8	1897.0
52.5°	2279.4	2301.1	2378.0	2474.0	2571.0	2558.9	2460.6	2790.0	3267.8	3221.1	2081.1
55°	2125.8	2167.9	2281.0	2451.3	2720.0	2853.8	2809.1	3062.9	3507.2	3475.6	2294.5
57.5°	1808.8	1834.5	1991.7	2229.7	2636.8	2992.6	3212.9	3432.9	3794.2	3779.4	2625.9
60°	1216.6	1228.1	1430.4	1724.7	2244.8	2854.1	3508.8	3880.4	4147.7	4140.5	3013.0
62.5°	697.1	702.0	848.7	1096.9	1597.4	2418.8	3533.8	4432.5	4571.6	4575.5	3460.8
65°	375.2	377.8	496.2	643.8	972.0	1724.0	3177.7	4735.0	4914.2	4921.8	3738.3
66°	323.9	311.4	394.9	548.8	773.4	1372.2	2952.5	4724.1	4980.0	4971.7	3728.5
67.5°	246.3	257.5	315.3	421.9	573.1	975.6	2437.5	4514.0	4930.0	4904.3	3576.9
70°	176.2	180.9	224.6	300.9	390.3	535.3	1557.6	3749.2	4480.8	4446.3	3116.2
72.5°	113.8	118.7	159.1	217.7	282.1	292.3	872.0	2708.8	3454.6	3449.6	2346.8
75°	81.2	85.8	105.2	155.9	212.1	180.9	419.9	1825.6	2196.2	2181.4	1451.7
77.5°	58.9	61.2	70.4	101.9	151.6	129.6	194.7	974.9	1093.3	1144.9	641.5
80°	33.9	35.8	49.0	62.1	102.6	88.5	93.1	391.3	403.5	384.1	200.6
82.5°	16.8	19.1	29.3	42.4	64.1	59.5	42.7	117.7	124.3	121.0	50.6
85°	3.9	4.9	16.4	27.9	31.2	26.6	20.7	34.5	42.7	41.8	19.4
87.5°	0.3	0.7	5.9	4.9	5.3	8.9	7.2	8.9	13.8	12.8	6.9
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°	486.3	486.3	486.3	486.3	486.3	486.3	486.3	486.3	486.3	486.3	486.3
2.5°	490.6	484.4	466.3	448.5	433.7	418.3	404.1	395.9	392.6	389.0	390.6
5°	497.5	482.4	445.9	414.3	383.4	357.1	336.1	322.6	316.0	315.0	313.4
7.5°	506.7	480.7	424.2	374.9	334.4	305.1	281.1	261.7	255.8	250.6	246.3
10°	517.9	477.8	397.2	333.4	290.3	253.5	222.0	198.9	187.1	183.8	186.1
12.5°	529.7	472.2	368.9	295.3	245.6	198.6	169.3	157.8	154.5	153.2	153.6
15°	541.6	465.3	339.3	258.5	195.6	158.5	145.0	142.0	140.7	140.1	139.4
17.5°	552.4	454.1	306.1	222.6	158.5	135.5	130.5	127.9	125.3	124.3	122.6
20°	565.2	441.3	276.2	182.5	134.2	122.6	116.7	111.8	107.9	105.2	104.9
22.5°	577.4	424.8	245.0	151.3	122.3	110.2	100.6	95.4	90.8	87.5	88.5
25°	584.0	404.8	217.0	131.9	111.5	97.7	87.1	80.6	75.6	74.0	73.7
27.5°	584.0	380.1	189.7	120.7	101.6	86.5	75.6	69.4	66.1	63.8	64.1
30°	579.4	352.8	164.4	112.1	93.1	76.6	66.4	60.8	58.2	56.6	56.2
32.5°	575.8	326.8	142.7	103.9	84.2	68.1	59.2	54.9	52.3	50.6	50.6
35°	581.4	304.5	125.9	95.7	76.0	61.5	53.6	49.7	47.0	45.7	45.4
37.5°	596.1	284.1	113.1	86.8	68.4	55.9	49.7	45.0	42.4	40.8	40.1
40°	632.6	272.6	103.6	78.6	61.2	51.3	45.0	40.8	37.5	35.8	35.5
42.5°	691.2	272.9	94.4	71.0	55.6	47.3	41.1	36.2	32.6	30.9	30.6
45°	779.3	285.4	87.1	63.8	50.6	43.1	36.8	31.6	28.3	26.6	26.6
47.5°	884.9	309.7	80.9	57.5	46.0	39.1	32.6	27.3	24.0	22.7	22.7
50°	999.3	341.3	74.6	51.0	42.1	34.9	27.9	23.7	21.0	20.1	20.1
52.5°	1116.0	379.5	68.4	45.7	37.8	30.3	24.0	21.0	18.7	18.1	17.8
55°	1269.2	428.1	61.8	40.1	33.2	26.0	21.4	18.4	15.8	14.8	14.5
57.5°	1505.0	501.4	54.6	35.2	27.3	21.7	18.4	15.5	12.5	10.9	10.5
60°	1789.4	590.9	47.0	30.9	22.0	17.8	14.8	11.8	9.2	7.2	6.9
62.5°	2055.8	647.8	39.8	26.0	17.4	13.5	10.5	8.9	6.6	4.6	4.3
65°	2173.5	628.7	32.9	21.0	13.8	9.5	6.9	6.2	3.9	2.0	1.6
66°	2134.4	600.4	30.3	19.1	12.5	8.2	5.9	5.3	3.0	1.0	1.0
67.5°	2018.9	533.7	26.3	16.4	10.9	6.6	4.6	3.9	1.6	0.3	0.0
70°	1729.9	431.7	20.7	12.2	7.9	4.6	2.6	2.0	1.0	0.0	0.0
72.5°	1328.8	321.6	16.4	9.2	5.6	2.6	1.3	0.7	1.0	0.0	0.0
75°	814.2	183.8	12.8	6.9	3.6	1.6	1.0	0.0	1.0	0.3	0.0
77.5°	361.4	82.5	8.5	4.6	2.6	1.3	0.7	0.0	0.7	0.3	0.0
80°	91.4	27.0	4.9	3.3	2.0	1.0	0.3	0.0	0.7	0.7	0.3
82.5°	25.0	9.9	3.6	2.6	1.6	1.0	0.3	0.0	0.7	0.7	0.7
85°	9.9	4.6	3.3	2.6	2.0	1.0	0.3	0.0	0.7	0.7	0.7
87.5°	4.6	3.3	3.3	3.0	2.3	1.0	0.3	0.0	0.7	0.3	0.7
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)