

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: P458704

Luminaire Tested: **GALN-SA2C-735-U-T2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458704
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-SA2C-735-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9846 lumens
Efficiency: N/A
Efficacy: 91.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

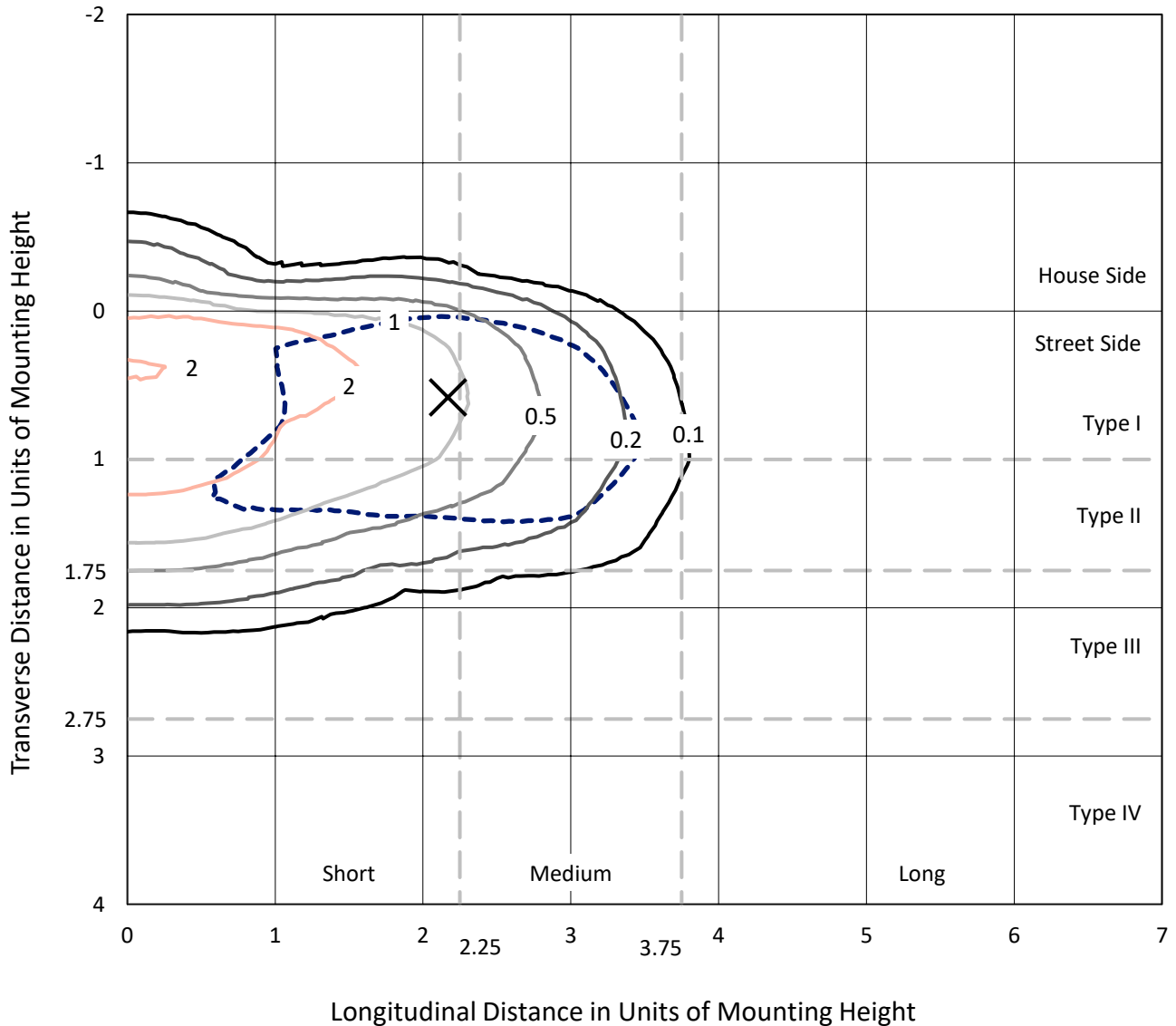
Input Watts (W): 108
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

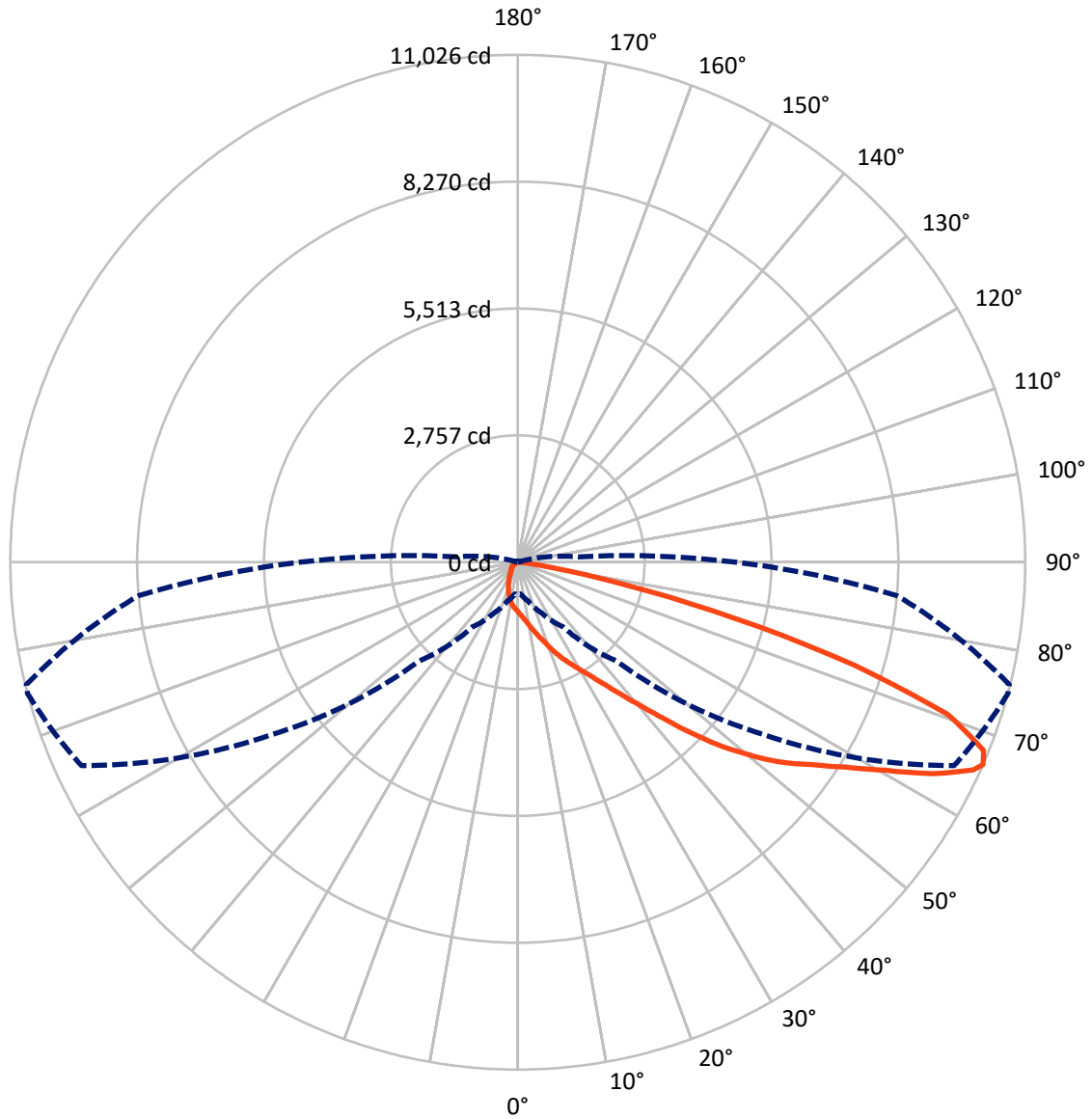
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 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	607.8	0.0	607.8
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	9238.2	0.0	9238.2
	% Fixture	93.8	0.0	93.8
Total	Lumens	9846.0	0.0	9846.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.9	1.1
10°-20°	305.7	3.1
20°-30°	527.8	5.4
30°-40°	952.0	9.7
40°-50°	1719.9	17.5
50°-60°	2681.3	27.2
60°-70°	2547.1	25.9
70°-80°	954.6	9.7
80°-90°	53.9	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°	9846.0	100.0
0°-180°	9846.0	100.0



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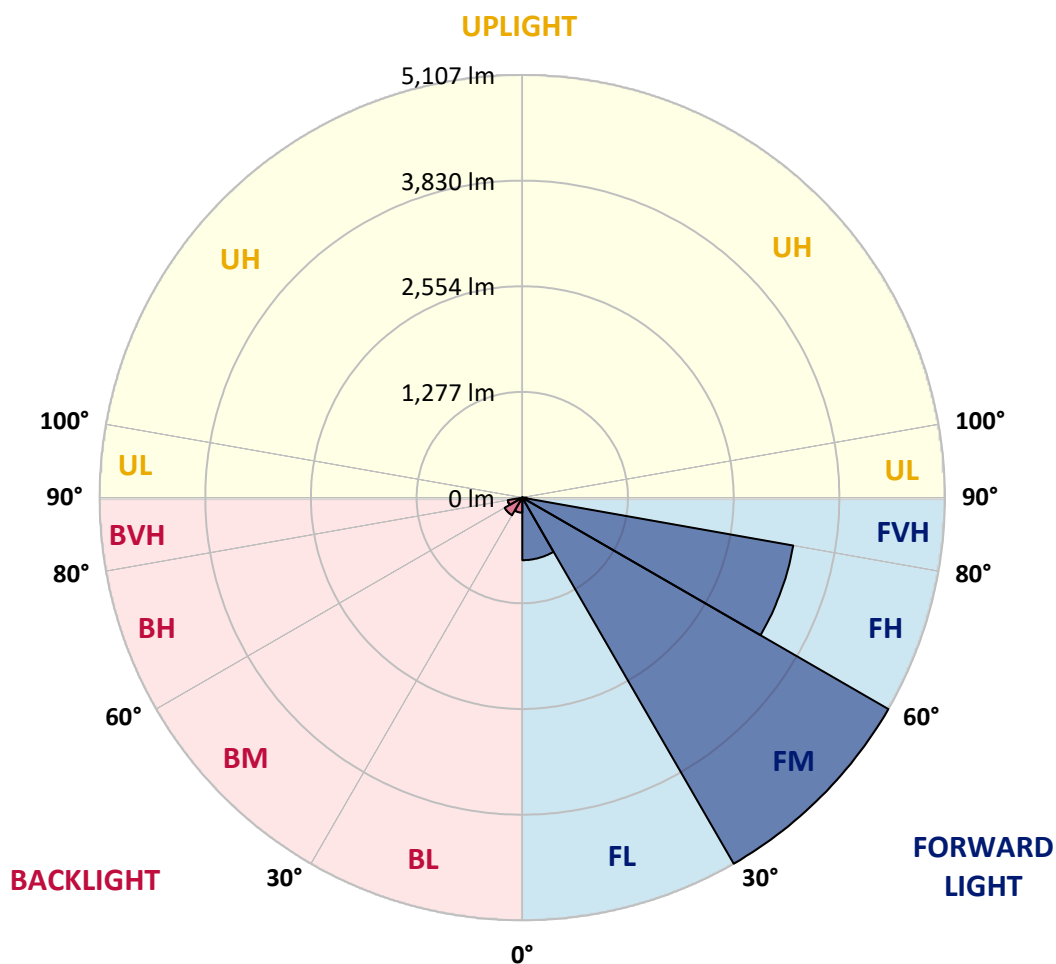
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	755.8	7.7			
FM (30°-60°)	5107.1	51.9			
FH (60°-80°)	3324.2	33.8			G2/5000
FVH (80°-90°)	51.1	0.5			G1/100
BL (0°-30°)	181.5	1.8	B1/500		
BM (30°-60°)	246.0	2.5	B1/1000		
BH (60°-80°)	177.5	1.8	B1/500		G1/500
BVH (80°-90°)	2.8	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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1076.8	1076.8	1076.8	1076.8	1076.8	1076.8	1076.8	1076.8	1076.8	1076.8	1076.8
2.5°	1286.4	1270.4	1275.5	1268.2	1251.5	1226.7	1204.9	1173.6	1142.3	1137.2	1102.2
5°	1456.1	1451.7	1445.9	1424.8	1413.1	1375.3	1330.1	1276.2	1211.4	1199.8	1136.5
7.5°	1571.8	1569.6	1572.5	1561.6	1551.4	1517.2	1469.2	1395.6	1295.2	1288.6	1183.0
10°	1609.7	1615.5	1626.4	1643.9	1659.9	1649.0	1612.6	1520.9	1403.6	1384.7	1236.2
12.5°	1587.8	1594.4	1620.6	1667.2	1718.9	1748.7	1734.2	1667.2	1518.7	1503.4	1295.9
15°	1531.8	1539.8	1576.9	1649.0	1741.4	1825.9	1862.3	1814.3	1652.6	1627.9	1368.0
17.5°	1448.8	1460.4	1513.6	1608.9	1735.6	1881.2	1983.9	1967.9	1795.3	1772.0	1446.6
20°	1386.2	1394.9	1440.0	1549.2	1710.9	1911.8	2099.6	2144.8	1971.5	1931.5	1539.1
22.5°	1427.7	1430.6	1445.9	1511.4	1666.5	1919.8	2201.6	2329.0	2158.6	2122.9	1635.2
25°	1630.8	1601.7	1586.4	1571.8	1657.0	1912.5	2294.0	2521.2	2345.0	2307.1	1730.5
27.5°	1951.1	1938.0	1860.8	1757.5	1737.8	1922.0	2355.2	2703.2	2520.4	2479.7	1823.7
30°	2299.8	2277.3	2230.0	2078.5	1926.4	1989.0	2399.6	2880.1	2727.9	2674.1	1908.9
32.5°	2620.2	2634.7	2564.1	2408.3	2232.1	2131.7	2457.1	3073.0	2966.0	2899.0	2007.9
35°	2993.7	3022.8	2914.3	2765.1	2559.0	2389.4	2569.2	3290.7	3268.1	3183.7	2160.8
37.5°	3373.0	3390.4	3324.2	3114.5	2928.9	2717.0	2780.3	3559.3	3640.2	3568.1	2343.5
40°	3691.8	3715.9	3667.1	3480.7	3282.7	3096.3	3086.9	3852.0	4082.8	4008.5	2615.8
42.5°	3935.7	3953.9	3955.4	3823.6	3645.2	3560.8	3477.8	4225.5	4637.6	4551.6	2931.8
45°	4243.7	4269.9	4254.6	4165.1	4031.8	4016.5	3973.6	4676.9	5301.5	5193.0	3341.7
47.5°	4719.8	4737.3	4699.4	4593.9	4458.5	4482.5	4457.0	5182.9	5978.6	5885.4	3766.1
50°	5050.3	5079.5	5133.3	5175.6	5077.3	4988.5	4912.8	5655.3	6621.4	6537.7	4200.0
52.5°	5046.7	5094.8	5265.1	5477.7	5692.5	5665.5	5447.9	6177.3	7235.2	7131.8	4607.7
55°	4706.7	4799.9	5050.3	5427.5	6022.3	6318.6	6219.6	6781.6	7765.2	7695.3	5080.2
57.5°	4004.9	4061.7	4409.7	4936.8	5838.1	6625.8	7113.6	7600.6	8400.7	8368.0	5814.1
60°	2693.7	2719.2	3166.9	3818.5	4970.3	6319.3	7768.8	8591.5	9183.4	9167.4	6670.9
62.5°	1543.4	1554.3	1879.0	2428.7	3536.8	5355.4	7824.1	9813.9	10121.8	10130.5	7662.5
65°	830.7	836.5	1098.6	1425.5	2152.1	3817.1	7035.7	10483.6	10880.4	10897.2	8277.0
66°	717.1	689.4	874.4	1215.1	1712.3	3038.1	6537.0	10459.6	11026.0	11007.8	8255.1
67.5°	545.3	570.0	698.2	934.1	1269.0	2160.1	5396.9	9994.4	10915.4	10858.6	7919.5
70°	390.2	400.4	497.2	666.1	864.2	1185.2	3448.7	8301.0	9920.9	9844.4	6899.5
72.5°	251.9	262.8	352.4	482.0	624.7	647.2	1930.7	5997.5	7648.7	7637.8	5196.0
75°	179.8	190.0	233.0	345.1	469.6	400.4	929.7	4042.0	4862.5	4829.8	3214.3
77.5°	130.3	135.4	155.8	225.7	335.6	286.8	431.0	2158.6	2420.7	2535.0	1420.4
80°	75.0	79.4	108.5	137.6	227.1	195.8	206.0	866.4	893.3	850.3	444.1
82.5°	37.1	42.2	64.8	93.9	142.0	131.8	94.6	260.6	275.2	267.9	112.1
85°	8.7	10.9	36.4	61.9	69.2	59.0	45.9	76.4	94.6	92.5	43.0
87.5°	0.7	1.5	13.1	10.9	11.6	19.7	16.0	19.7	30.6	28.4	15.3
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°	1076.8	1076.8	1076.8	1076.8	1076.8	1076.8	1076.8	1076.8	1076.8	1076.8	1076.8
2.5°	1086.2	1072.4	1032.3	993.0	960.3	926.1	894.7	876.5	869.3	861.3	864.9
5°	1101.5	1068.0	987.2	917.3	848.9	790.6	744.0	714.2	699.6	697.5	693.8
7.5°	1121.9	1064.4	939.2	830.0	740.4	675.6	622.5	579.5	566.4	554.8	545.3
10°	1146.6	1057.8	879.5	738.2	642.9	561.3	491.4	440.5	414.2	407.0	412.1
12.5°	1172.9	1045.5	816.9	653.8	543.8	439.7	374.9	349.5	342.2	339.3	340.0
15°	1199.1	1030.2	751.3	572.2	433.2	350.9	321.1	314.5	311.6	310.1	308.7
17.5°	1223.1	1005.4	677.8	492.9	350.9	299.9	289.0	283.2	277.4	275.2	271.6
20°	1251.5	977.0	611.5	404.1	297.0	271.6	258.5	247.5	238.8	233.0	232.2
22.5°	1278.4	940.6	542.4	334.9	270.8	243.9	222.8	211.1	200.9	193.7	195.8
25°	1293.0	896.2	480.5	291.9	246.8	216.2	192.9	178.4	167.4	163.8	163.1
27.5°	1293.0	841.6	420.1	267.2	225.0	191.5	167.4	153.6	146.3	141.2	142.0
30°	1282.8	781.2	364.0	248.3	206.0	169.6	147.1	134.7	128.9	125.2	124.5
32.5°	1274.8	723.7	316.0	230.1	186.4	150.7	131.0	121.6	115.8	112.1	112.1
35°	1287.2	674.2	278.8	211.9	168.2	136.1	118.7	109.9	104.1	101.2	100.5
37.5°	1319.9	629.0	250.4	192.2	151.4	123.8	109.9	99.7	93.9	90.3	88.8
40°	1400.7	603.5	229.3	174.0	135.4	113.6	99.7	90.3	83.0	79.4	78.6
42.5°	1530.3	604.3	208.9	157.3	123.0	104.8	91.0	80.1	72.1	68.4	67.7
45°	1725.4	631.9	192.9	141.2	112.1	95.4	81.5	69.9	62.6	59.0	59.0
47.5°	1959.1	685.8	179.1	127.4	101.9	86.6	72.1	60.4	53.1	50.2	50.2
50°	2212.5	755.7	165.3	112.8	93.2	77.2	61.9	52.4	46.6	44.4	44.4
52.5°	2470.9	840.1	151.4	101.2	83.7	67.0	53.1	46.6	41.5	40.0	39.3
55°	2810.2	947.9	136.9	88.8	73.5	57.5	47.3	40.8	34.9	32.8	32.0
57.5°	3332.2	1110.2	120.9	77.9	60.4	48.1	40.8	34.2	27.7	24.0	23.3
60°	3961.9	1308.3	104.1	68.4	48.8	39.3	32.8	26.2	20.4	16.0	15.3
62.5°	4551.6	1434.2	88.1	57.5	38.6	29.8	23.3	19.7	14.6	10.2	9.5
65°	4812.3	1392.0	72.8	46.6	30.6	21.1	15.3	13.8	8.7	4.4	3.6
66°	4725.6	1329.4	67.0	42.2	27.7	18.2	13.1	11.6	6.6	2.2	2.2
67.5°	4470.1	1181.6	58.2	36.4	24.0	14.6	10.2	8.7	3.6	0.7	0.0
70°	3830.2	955.9	45.9	26.9	17.5	10.2	5.8	4.4	2.2	0.0	0.0
72.5°	2942.0	712.0	36.4	20.4	12.4	5.8	2.9	1.5	2.2	0.0	0.0
75°	1802.6	407.0	28.4	15.3	8.0	3.6	2.2	0.0	2.2	0.7	0.0
77.5°	800.1	182.7	18.9	10.2	5.8	2.9	1.5	0.0	1.5	0.7	0.0
80°	202.4	59.7	10.9	7.3	4.4	2.2	0.7	0.0	1.5	1.5	0.7
82.5°	55.3	21.8	8.0	5.8	3.6	2.2	0.7	0.0	1.5	1.5	1.5
85°	21.8	10.2	7.3	5.8	4.4	2.2	0.7	0.0	1.5	1.5	1.5
87.5°	10.2	7.3	7.3	6.6	5.1	2.2	0.7	0.0	1.5	0.7	1.5
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)