

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: P452063

Luminaire Tested: **GALN-SA3A-727-U-T2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452063
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-SA3A-727-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 615mA 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: 8535 lumens
Efficiency: N/A
Efficacy: 91.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

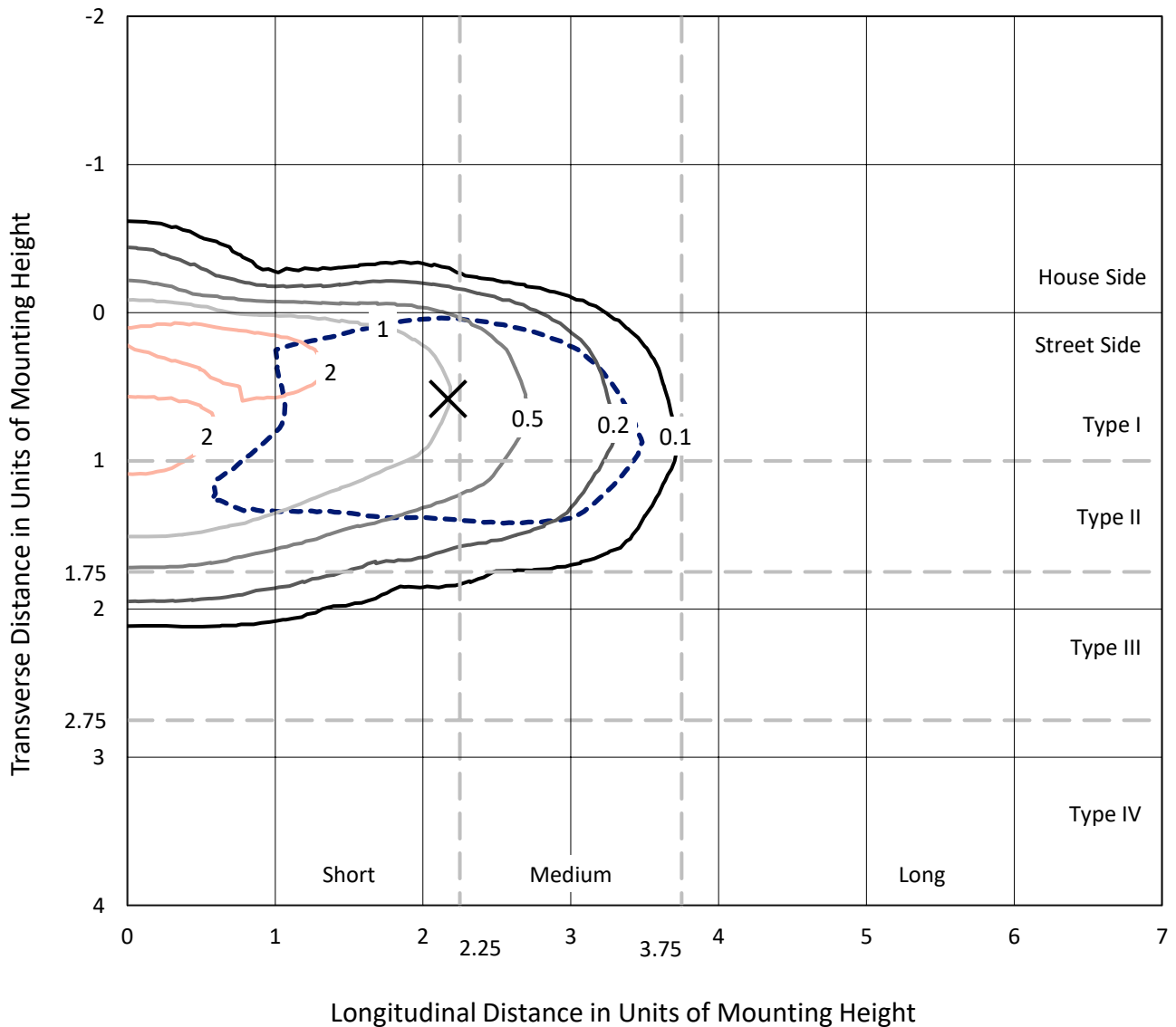
Input Watts (W): 93
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

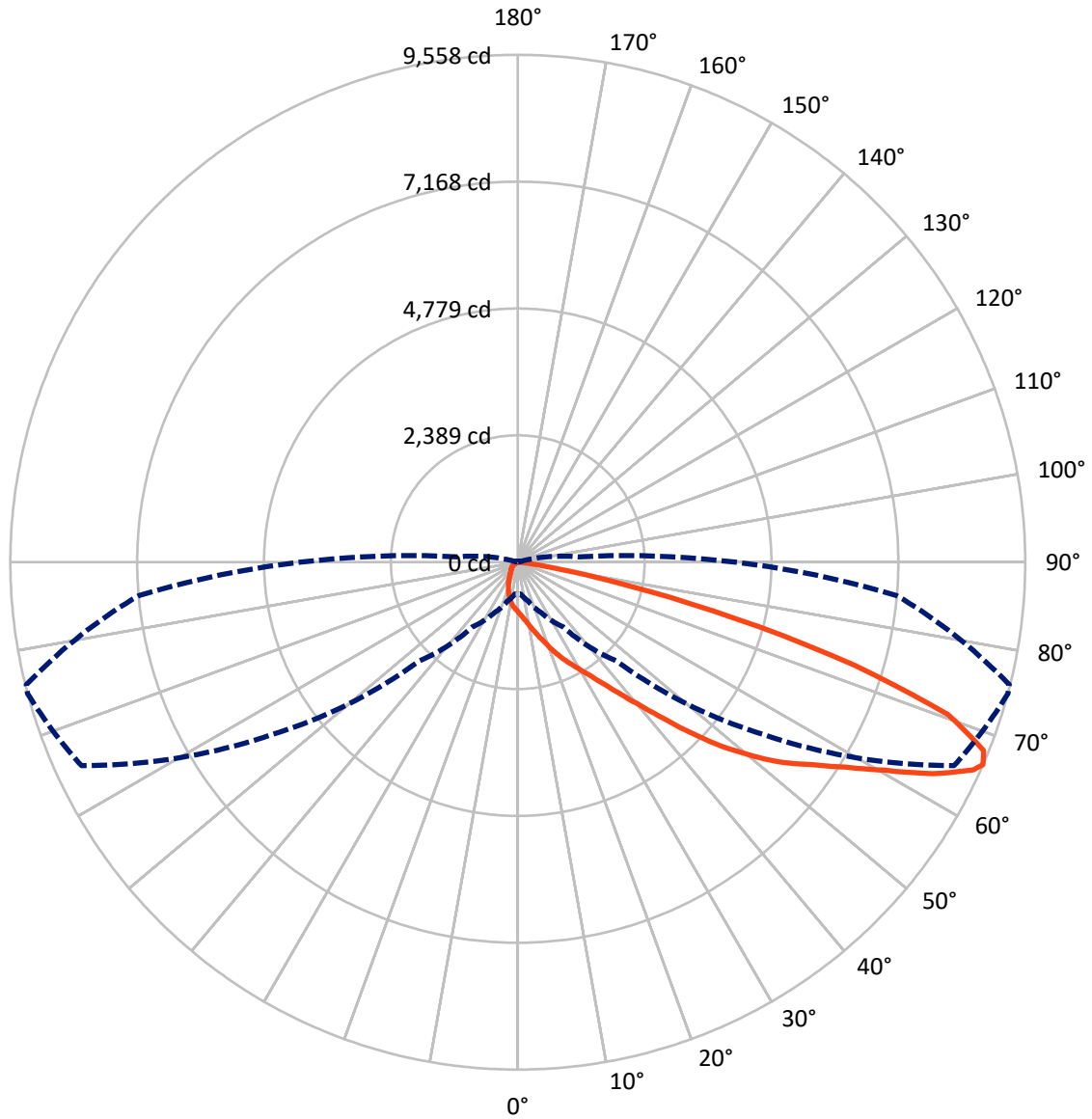
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 fc
 Type 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	526.9	0.0	526.9
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	8008.1	0.0	8008.1
	% Fixture	93.8	0.0	93.8
Total	Lumens	8535.0	0.0	8535.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.0	1.1
10°-20°	265.0	3.1
20°-30°	457.5	5.4
30°-40°	825.3	9.7
40°-50°	1490.9	17.5
50°-60°	2324.3	27.2
60°-70°	2208.0	25.9
70°-80°	827.5	9.7
80°-90°	46.7	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°	8535.0	100.0
0°-180°	8535.0	100.0

Coefficient of Utilization



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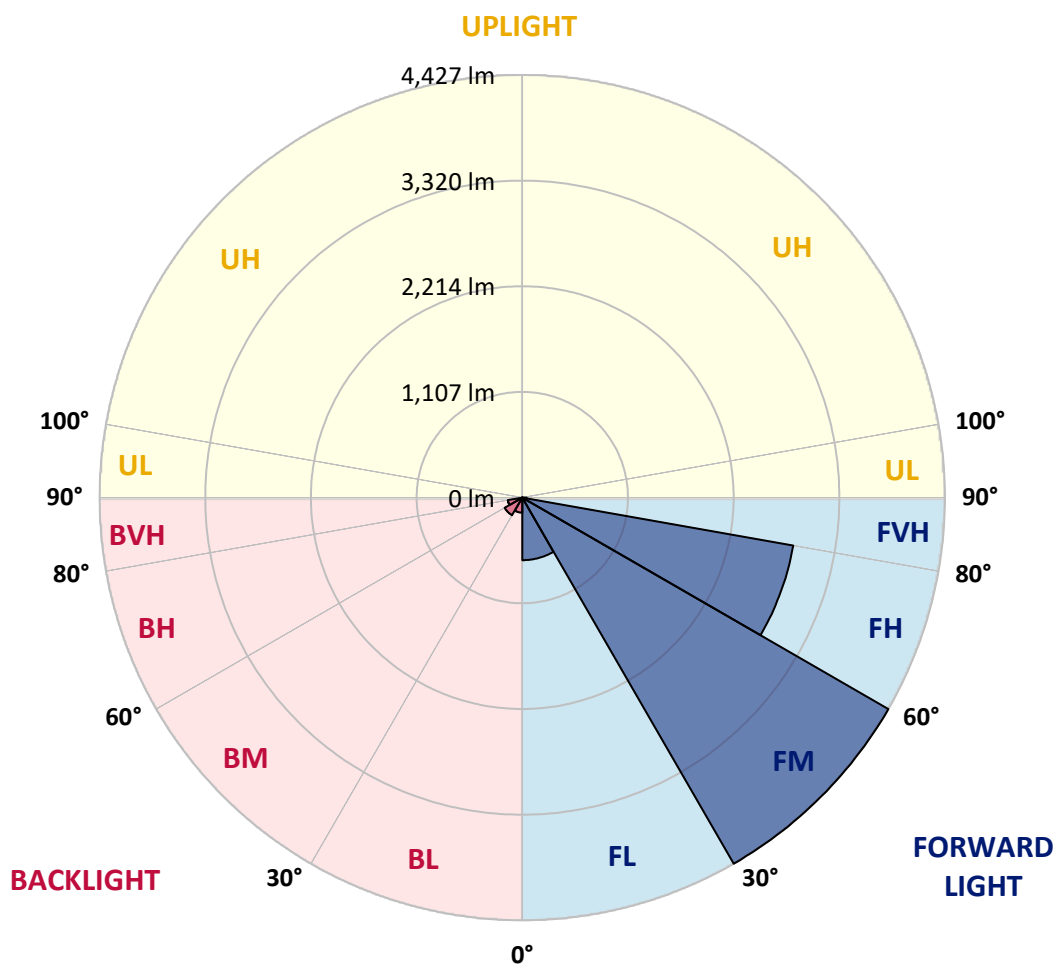
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	655.1	7.7			
FM (30°-60°)	4427.1	51.9			
FH (60°-80°)	2881.6	33.8			G2/5000
FVH (80°-90°)	44.3	0.5			G1/100
BL (0°-30°)	157.4	1.8	B1/500		
BM (30°-60°)	213.3	2.5	B0/220		
BH (60°-80°)	153.9	1.8	B1/500		G1/500
BVH (80°-90°)	2.4	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°	933.4	933.4	933.4	933.4	933.4	933.4	933.4	933.4	933.4	933.4	933.4
2.5°	1115.1	1101.3	1105.7	1099.4	1084.8	1063.4	1044.5	1017.3	990.2	985.8	955.5
5°	1262.2	1258.4	1253.4	1235.0	1225.0	1192.1	1153.0	1106.3	1050.1	1040.0	985.1
7.5°	1362.5	1360.6	1363.2	1353.7	1344.9	1315.2	1273.5	1209.8	1122.7	1117.0	1025.5
10°	1395.3	1400.4	1409.9	1425.0	1438.9	1429.4	1397.9	1318.4	1216.7	1200.3	1071.6
12.5°	1376.4	1382.1	1404.8	1445.2	1490.0	1515.9	1503.3	1445.2	1316.5	1303.2	1123.3
15°	1327.8	1334.8	1366.9	1429.4	1509.6	1582.8	1614.3	1572.7	1432.6	1411.1	1185.8
17.5°	1255.9	1266.0	1312.0	1394.7	1504.5	1630.7	1719.7	1705.8	1556.3	1536.1	1254.0
20°	1201.6	1209.2	1248.3	1343.0	1483.1	1657.3	1820.1	1859.2	1709.0	1674.3	1334.1
22.5°	1237.6	1240.1	1253.4	1310.1	1444.6	1664.2	1908.4	2018.9	1871.2	1840.3	1417.4
25°	1413.6	1388.4	1375.2	1362.5	1436.4	1657.9	1988.6	2185.5	2032.8	1999.9	1500.1
27.5°	1691.3	1680.0	1613.1	1523.5	1506.4	1666.1	2041.6	2343.2	2184.8	2149.5	1580.9
30°	1993.6	1974.1	1933.0	1801.8	1669.9	1724.1	2080.1	2496.6	2364.7	2318.0	1654.7
32.5°	2271.3	2283.9	2222.7	2087.7	1934.9	1847.8	2129.9	2663.8	2571.1	2513.0	1740.6
35°	2595.1	2620.3	2526.3	2396.9	2218.3	2071.2	2227.1	2852.5	2833.0	2759.8	1873.1
37.5°	2923.9	2939.0	2881.6	2699.8	2538.9	2355.2	2410.1	3085.4	3155.5	3093.0	2031.5
40°	3200.3	3221.1	3178.8	3017.3	2845.6	2684.0	2675.8	3339.1	3539.2	3474.8	2267.5
42.5°	3411.7	3427.5	3428.7	3314.5	3159.9	3086.7	3014.7	3662.9	4020.1	3945.6	2541.4
45°	3678.6	3701.4	3688.1	3610.5	3495.0	3481.7	3444.5	4054.1	4595.6	4501.6	2896.7
47.5°	4091.4	4106.5	4073.7	3982.2	3864.8	3885.6	3863.6	4492.8	5182.5	5101.8	3264.6
50°	4377.9	4403.1	4449.8	4486.4	4401.2	4324.2	4258.6	4902.3	5739.8	5667.2	3640.8
52.5°	4374.7	4416.4	4564.1	4748.3	4934.5	4911.2	4722.5	5354.8	6271.8	6182.2	3994.2
55°	4080.0	4160.8	4377.9	4704.8	5220.4	5477.3	5391.4	5878.6	6731.2	6670.7	4403.8
57.5°	3471.6	3520.9	3822.5	4279.4	5060.7	5743.6	6166.4	6588.6	7282.2	7253.8	5039.9
60°	2335.0	2357.1	2745.3	3310.1	4308.5	5477.9	6734.4	7447.5	7960.6	7946.7	5782.7
62.5°	1337.9	1347.4	1628.9	2105.3	3065.9	4642.3	6782.4	8507.1	8774.1	8781.7	6642.3
65°	720.1	725.1	952.3	1235.7	1865.5	3308.8	6098.9	9087.7	9431.7	9446.2	7174.9
66°	621.6	597.6	757.9	1053.3	1484.3	2633.6	5666.6	9066.9	9557.9	9542.1	7156.0
67.5°	472.7	494.1	605.2	809.7	1100.0	1872.5	4678.3	8663.6	9462.0	9412.8	6865.0
70°	338.3	347.1	431.0	577.5	749.1	1027.4	2989.5	7195.7	8599.9	8533.6	5980.9
72.5°	218.4	227.8	305.4	417.8	541.5	561.0	1673.7	5198.9	6630.3	6620.8	4504.1
75°	155.9	164.7	201.9	299.1	407.1	347.1	805.9	3503.8	4215.1	4186.7	2786.3
77.5°	113.0	117.4	135.1	195.6	290.9	248.7	373.6	1871.2	2098.4	2197.5	1231.3
80°	65.0	68.8	94.0	119.3	196.9	169.8	178.6	751.0	774.4	737.1	385.0
82.5°	32.2	36.6	56.2	81.4	123.1	114.2	82.0	225.9	238.6	232.2	97.2
85°	7.6	9.5	31.6	53.6	60.0	51.1	39.8	66.3	82.0	80.1	37.2
87.5°	0.6	1.3	11.4	9.5	10.1	17.0	13.9	17.0	26.5	24.6	13.3
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°	933.4	933.4	933.4	933.4	933.4	933.4	933.4	933.4	933.4	933.4	933.4
2.5°	941.6	929.6	894.9	860.8	832.4	802.8	775.6	759.8	753.5	746.6	749.7
5°	954.8	925.8	855.8	795.2	735.9	685.4	645.0	619.1	606.5	604.6	601.4
7.5°	972.5	922.7	814.1	719.4	641.8	585.7	539.6	502.4	491.0	480.9	472.7
10°	994.0	917.0	762.4	639.9	557.3	486.6	426.0	381.8	359.1	352.8	357.2
12.5°	1016.7	906.2	708.1	566.7	471.4	381.2	325.0	302.9	296.6	294.1	294.7
15°	1039.4	893.0	651.3	496.0	375.5	304.2	278.3	272.6	270.1	268.8	267.6
17.5°	1060.2	871.5	587.5	427.2	304.2	260.0	250.5	245.5	240.4	238.6	235.4
20°	1084.8	846.9	530.1	350.3	257.5	235.4	224.0	214.6	207.0	201.9	201.3
22.5°	1108.2	815.4	470.2	290.3	234.8	211.4	193.1	183.0	174.2	167.9	169.8
25°	1120.8	776.9	416.5	253.1	213.9	187.4	167.2	154.6	145.2	142.0	141.4
27.5°	1120.8	729.5	364.1	231.6	195.0	166.0	145.2	133.2	126.8	122.4	123.1
30°	1112.0	677.2	315.5	215.2	178.6	147.0	127.5	116.8	111.7	108.5	107.9
32.5°	1105.0	627.3	273.9	199.4	161.6	130.6	113.6	105.4	100.3	97.2	97.2
35°	1115.8	584.4	241.7	183.6	145.8	118.0	102.9	95.3	90.2	87.7	87.1
37.5°	1144.2	545.3	217.1	166.6	131.3	107.3	95.3	86.5	81.4	78.3	77.0
40°	1214.2	523.2	198.8	150.8	117.4	98.5	86.5	78.3	71.9	68.8	68.2
42.5°	1326.6	523.8	181.1	136.3	106.7	90.9	78.9	69.4	62.5	59.3	58.7
45°	1495.7	547.8	167.2	122.4	97.2	82.7	70.7	60.6	54.3	51.1	51.1
47.5°	1698.3	594.5	155.2	110.4	88.4	75.1	62.5	52.4	46.1	43.5	43.5
50°	1917.9	655.1	143.3	97.8	80.8	66.9	53.6	45.4	40.4	38.5	38.5
52.5°	2141.9	728.3	131.3	87.7	72.6	58.1	46.1	40.4	36.0	34.7	34.1
55°	2436.0	821.7	118.6	77.0	63.7	49.9	41.0	35.3	30.3	28.4	27.8
57.5°	2888.5	962.4	104.8	67.5	52.4	41.7	35.3	29.7	24.0	20.8	20.2
60°	3434.4	1134.1	90.2	59.3	42.3	34.1	28.4	22.7	17.7	13.9	13.3
62.5°	3945.6	1243.3	76.4	49.9	33.4	25.9	20.2	17.0	12.6	8.8	8.2
65°	4171.5	1206.6	63.1	40.4	26.5	18.3	13.3	12.0	7.6	3.8	3.2
66°	4096.4	1152.4	58.1	36.6	24.0	15.8	11.4	10.1	5.7	1.9	1.9
67.5°	3874.9	1024.3	50.5	31.6	20.8	12.6	8.8	7.6	3.2	0.6	0.0
70°	3320.2	828.6	39.8	23.4	15.1	8.8	5.0	3.8	1.9	0.0	0.0
72.5°	2550.2	617.2	31.6	17.7	10.7	5.0	2.5	1.3	1.9	0.0	0.0
75°	1562.6	352.8	24.6	13.3	6.9	3.2	1.9	0.0	1.9	0.6	0.0
77.5°	693.6	158.4	16.4	8.8	5.0	2.5	1.3	0.0	1.3	0.6	0.0
80°	175.4	51.7	9.5	6.3	3.8	1.9	0.6	0.0	1.3	1.3	0.6
82.5°	48.0	18.9	6.9	5.0	3.2	1.9	0.6	0.0	1.3	1.3	1.3
85°	18.9	8.8	6.3	5.0	3.8	1.9	0.6	0.0	1.3	1.3	1.3
87.5°	8.8	6.3	6.3	5.7	4.4	1.9	0.6	0.0	1.3	0.6	1.3
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)