

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: P451135

Luminaire Tested: **GALN-SA2A-727-U-T2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451135
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-SA2A-727-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 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: 5750 lumens
Efficiency: N/A
Efficacy: 91.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B0 - U0 - G2

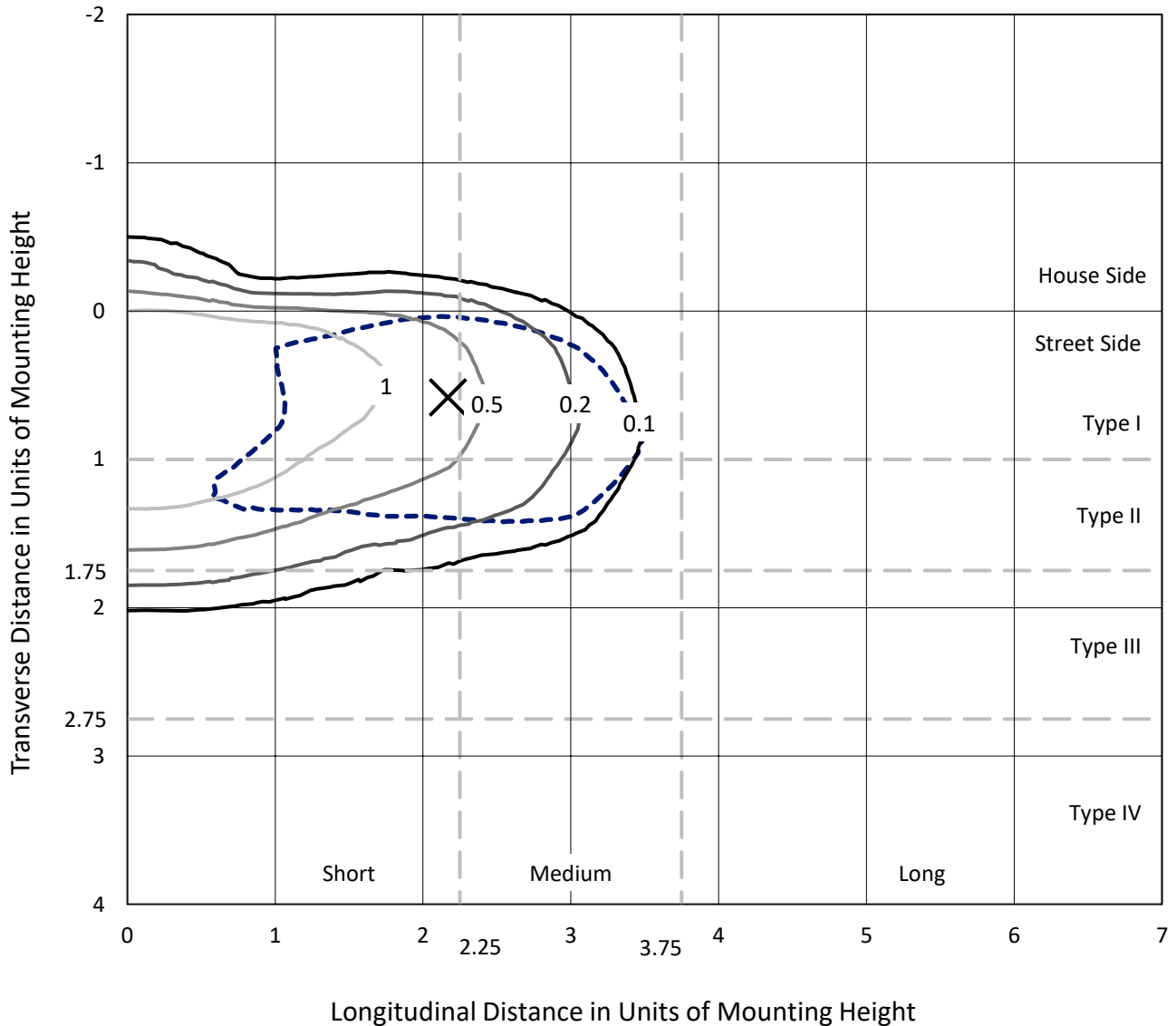
Input Watts (W): 63
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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 CATALOG NUMBER: GALN-SA2A-727-U-T2-HSS

Iso-Footcandle Lines of Horizontal Illumination

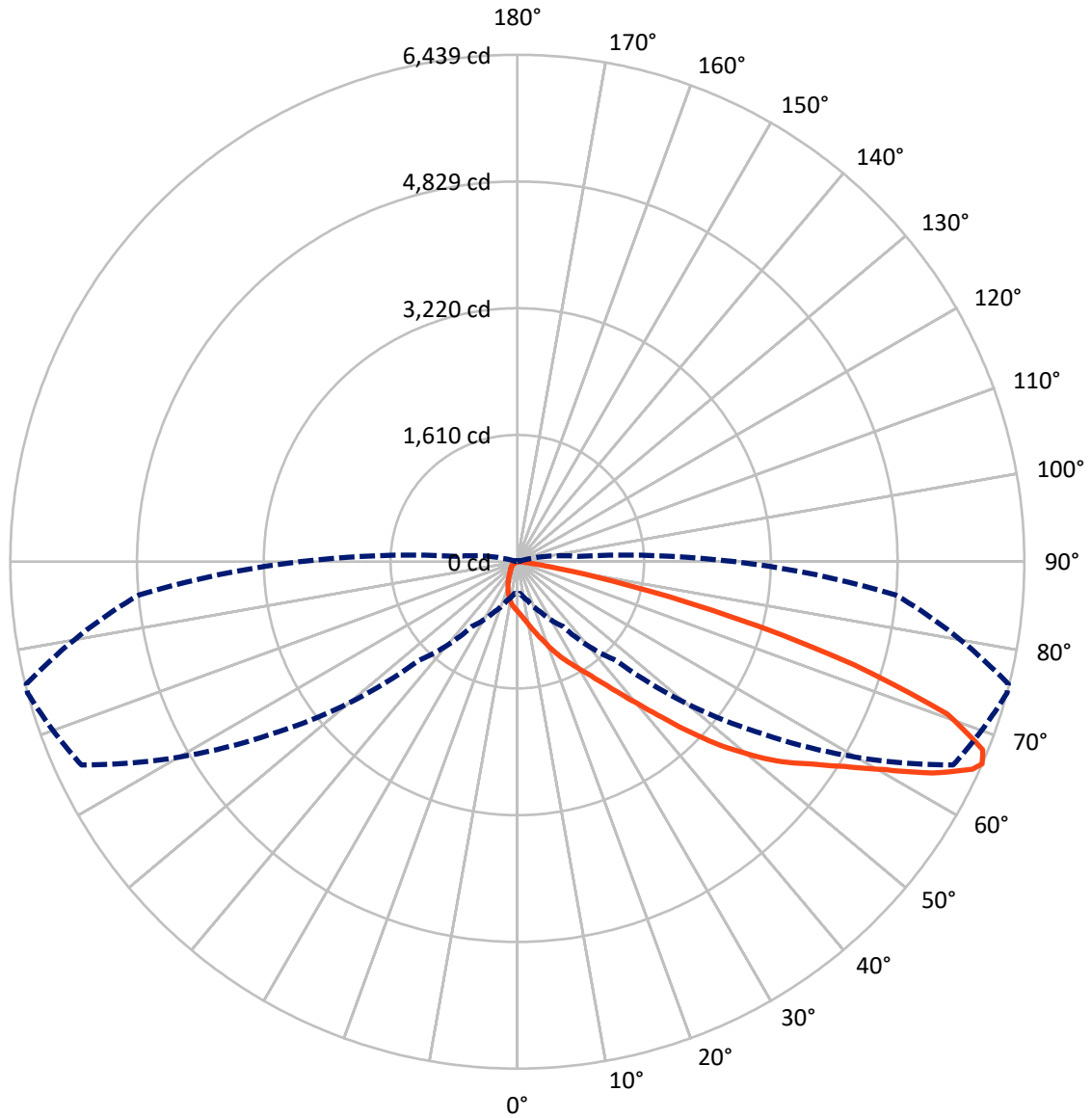
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 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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CATALOG NUMBER: GALN-SA2A-727-U-T2-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	355.0	0.0	355.0
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	5395.0	0.0	5395.0
	% Fixture	93.8	0.0	93.8
Total	Lumens	5750.0	0.0	5750.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.7	1.1
10°-20°	178.5	3.1
20°-30°	308.2	5.4
30°-40°	556.0	9.7
40°-50°	1004.4	17.5
50°-60°	1565.8	27.2
60°-70°	1487.5	25.9
70°-80°	557.5	9.7
80°-90°	31.5	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°	5750.0	100.0
0°-180°	5750.0	100.0



REPORT NUMBER: P451135

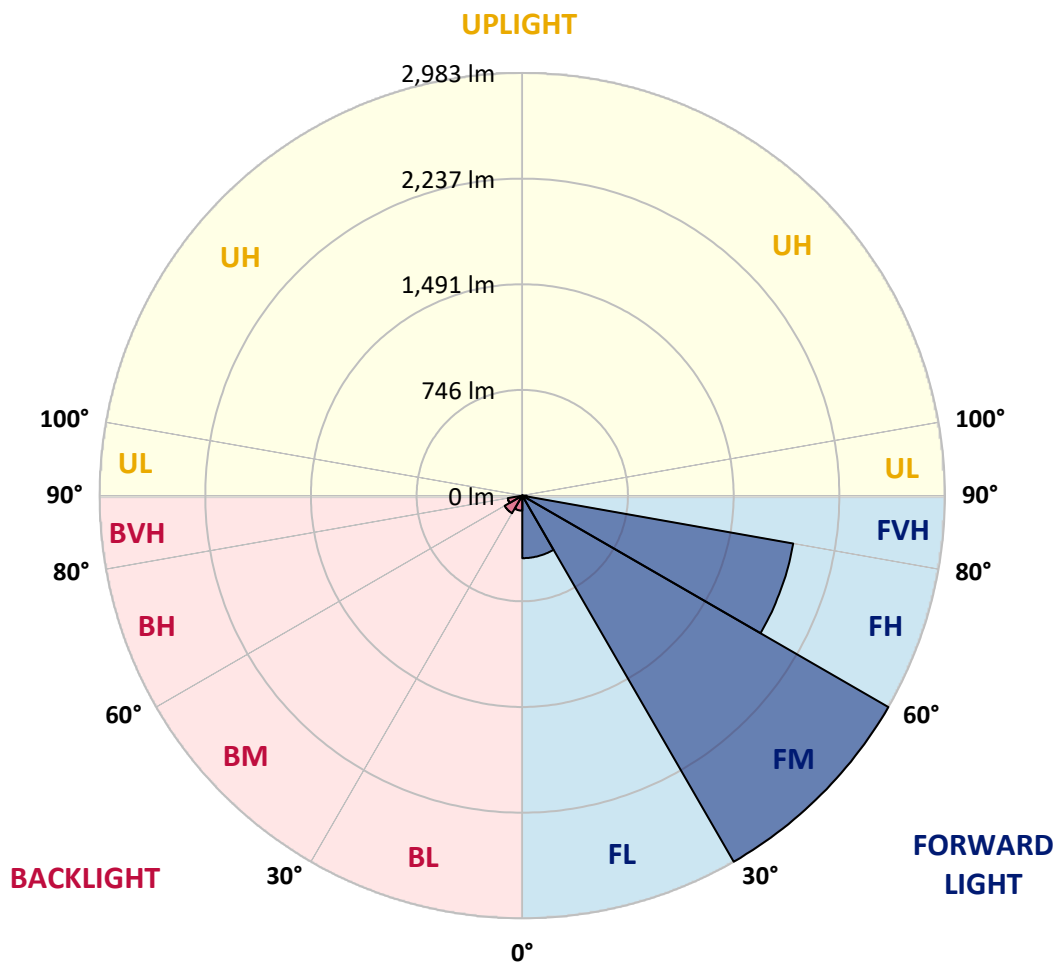
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	441.4	7.7			
FM (30°-60°)	2982.5	51.9			
FH (60°-80°)	1941.3	33.8			G2/5000
FVH (80°-90°)	29.8	0.5			G1/100
BL (0°-30°)	106.0	1.8	B0/110		
BM (30°-60°)	143.7	2.5	B0/220		
BH (60°-80°)	103.7	1.8	B0/110		G0/110
BVH (80°-90°)	1.6	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-G2

Type II Short





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 CATALOG NUMBER: GALN-SA2A-727-U-T2-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	628.8	628.8	628.8	628.8	628.8	628.8	628.8	628.8	628.8	628.8	628.8
2.5°	751.3	741.9	744.9	740.6	730.9	716.4	703.6	685.4	667.1	664.1	643.7
5°	850.3	847.8	844.4	832.0	825.2	803.1	776.8	745.3	707.5	700.7	663.7
7.5°	917.9	916.7	918.4	912.0	906.0	886.0	858.0	815.0	756.4	752.5	690.9
10°	940.0	943.4	949.8	960.0	969.4	963.0	941.7	888.2	819.7	808.7	721.9
12.5°	927.3	931.1	946.4	973.6	1003.8	1021.2	1012.7	973.6	886.9	878.0	756.8
15°	894.5	899.2	920.9	963.0	1017.0	1066.3	1087.6	1059.5	965.1	950.7	798.9
17.5°	846.1	852.9	883.9	939.6	1013.6	1098.6	1158.6	1149.2	1048.5	1034.9	844.8
20°	809.5	814.6	841.0	904.8	999.1	1116.5	1226.2	1252.5	1151.3	1128.0	898.8
22.5°	833.7	835.4	844.4	882.6	973.2	1121.2	1285.7	1360.1	1260.6	1239.8	954.9
25°	952.4	935.4	926.4	917.9	967.7	1116.9	1339.7	1472.3	1369.5	1347.3	1010.6
27.5°	1139.4	1131.8	1086.7	1026.3	1014.9	1122.4	1375.4	1578.6	1471.9	1448.1	1065.0
30°	1343.1	1329.9	1302.3	1213.8	1125.0	1161.6	1401.3	1682.0	1593.1	1561.6	1114.8
32.5°	1530.2	1538.7	1497.4	1406.4	1303.6	1244.9	1434.9	1794.6	1732.1	1693.0	1172.6
35°	1748.3	1765.3	1701.9	1614.8	1494.5	1395.4	1500.4	1921.7	1908.6	1859.2	1261.9
37.5°	1969.8	1980.0	1941.3	1818.9	1710.4	1586.7	1623.7	2078.6	2125.8	2083.7	1368.6
40°	2156.0	2170.0	2141.6	2032.7	1917.1	1808.2	1802.7	2249.5	2384.3	2341.0	1527.6
42.5°	2298.4	2309.1	2309.9	2233.0	2128.8	2079.5	2031.0	2467.7	2708.3	2658.1	1712.1
45°	2478.3	2493.6	2484.7	2432.4	2354.6	2345.6	2320.6	2731.3	3096.1	3032.7	1951.5
47.5°	2756.3	2766.5	2744.4	2682.8	2603.7	2617.7	2602.9	3026.8	3491.5	3437.0	2199.4
50°	2949.4	2966.4	2997.8	3022.5	2965.1	2913.2	2869.0	3302.7	3866.9	3818.0	2452.8
52.5°	2947.2	2975.3	3074.8	3198.9	3324.4	3308.6	3181.5	3607.5	4225.3	4164.9	2690.9
55°	2748.7	2803.1	2949.4	3169.6	3517.0	3690.0	3632.2	3960.4	4534.8	4494.0	2966.8
57.5°	2338.8	2372.0	2575.2	2883.0	3409.4	3869.4	4154.3	4438.7	4906.0	4886.8	3395.4
60°	1573.1	1588.0	1849.5	2230.0	2902.6	3690.4	4536.9	5017.4	5363.0	5353.7	3895.8
62.5°	901.4	907.7	1097.4	1418.4	2065.5	3127.5	4569.3	5731.2	5911.1	5916.2	4474.9
65°	485.1	488.5	641.6	832.5	1256.8	2229.1	4108.8	6122.4	6354.1	6363.9	4833.7
66°	418.8	402.6	510.6	709.6	1000.0	1774.2	3817.6	6108.3	6439.1	6428.5	4820.9
67.5°	318.4	332.9	407.7	545.5	741.1	1261.5	3151.7	5836.7	6374.5	6341.3	4624.9
70°	227.9	233.8	290.4	389.0	504.7	692.2	2014.0	4847.7	5793.7	5749.1	4029.3
72.5°	147.1	153.5	205.8	281.5	364.8	378.0	1127.5	3502.5	4466.8	4460.4	3034.4
75°	105.0	111.0	136.1	201.5	274.2	233.8	542.9	2360.5	2839.7	2820.5	1877.1
77.5°	76.1	79.1	91.0	131.8	196.0	167.5	251.7	1260.6	1413.7	1480.4	829.5
80°	43.8	46.3	63.3	80.4	132.7	114.4	120.3	505.9	521.7	496.6	259.4
82.5°	21.7	24.7	37.8	54.8	82.9	77.0	55.3	152.2	160.7	156.5	65.5
85°	5.1	6.4	21.3	36.1	40.4	34.4	26.8	44.6	55.3	54.0	25.1
87.5°	0.4	0.9	7.7	6.4	6.8	11.5	9.4	11.5	17.9	16.6	8.9
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°	628.8	628.8	628.8	628.8	628.8	628.8	628.8	628.8	628.8	628.8	628.8
2.5°	634.3	626.3	602.9	579.9	560.8	540.8	522.5	511.9	507.6	503.0	505.1
5°	643.3	623.7	576.5	535.7	495.7	461.7	434.5	417.1	408.6	407.3	405.2
7.5°	655.2	621.6	548.5	484.7	432.4	394.6	363.5	338.4	330.8	324.0	318.4
10°	669.6	617.8	513.6	431.1	375.4	327.8	287.0	257.2	241.9	237.7	240.6
12.5°	684.9	610.5	477.0	381.8	317.6	256.8	219.0	204.1	199.8	198.1	198.6
15°	700.2	601.6	438.8	334.2	253.0	204.9	187.5	183.7	182.0	181.1	180.3
17.5°	714.3	587.2	395.8	287.8	204.9	175.2	168.8	165.4	162.0	160.7	158.6
20°	730.9	570.6	357.1	236.0	173.5	158.6	150.9	144.6	139.5	136.1	135.6
22.5°	746.6	549.3	316.7	195.6	158.2	142.4	130.1	123.3	117.3	113.1	114.4
25°	755.1	523.4	280.6	170.5	144.1	126.3	112.7	104.2	97.8	95.7	95.2
27.5°	755.1	491.5	245.3	156.0	131.4	111.8	97.8	89.7	85.5	82.5	82.9
30°	749.1	456.2	212.6	145.0	120.3	99.1	85.9	78.7	75.3	73.1	72.7
32.5°	744.5	422.6	184.5	134.4	108.8	88.0	76.5	71.0	67.6	65.5	65.5
35°	751.7	393.7	162.8	123.7	98.2	79.5	69.3	64.2	60.8	59.1	58.7
37.5°	770.8	367.3	146.3	112.2	88.4	72.3	64.2	58.2	54.8	52.7	51.9
40°	818.0	352.5	133.9	101.6	79.1	66.3	58.2	52.7	48.5	46.3	45.9
42.5°	893.7	352.9	122.0	91.8	71.9	61.2	53.1	46.8	42.1	40.0	39.5
45°	1007.6	369.0	112.7	82.5	65.5	55.7	47.6	40.8	36.6	34.4	34.4
47.5°	1144.1	400.5	104.6	74.4	59.5	50.6	42.1	35.3	31.0	29.3	29.3
50°	1292.1	441.3	96.5	65.9	54.4	45.1	36.1	30.6	27.2	25.9	25.9
52.5°	1443.0	490.6	88.4	59.1	48.9	39.1	31.0	27.2	24.2	23.4	23.0
55°	1641.1	553.6	79.9	51.9	42.9	33.6	27.6	23.8	20.4	19.1	18.7
57.5°	1946.0	648.4	70.6	45.5	35.3	28.1	23.8	20.0	16.2	14.0	13.6
60°	2313.7	764.0	60.8	40.0	28.5	23.0	19.1	15.3	11.9	9.4	8.9
62.5°	2658.1	837.6	51.4	33.6	22.5	17.4	13.6	11.5	8.5	6.0	5.5
65°	2810.3	812.9	42.5	27.2	17.9	12.3	8.9	8.1	5.1	2.6	2.1
66°	2759.7	776.4	39.1	24.7	16.2	10.6	7.7	6.8	3.8	1.3	1.3
67.5°	2610.5	690.0	34.0	21.3	14.0	8.5	6.0	5.1	2.1	0.4	0.0
70°	2236.8	558.2	26.8	15.7	10.2	6.0	3.4	2.6	1.3	0.0	0.0
72.5°	1718.1	415.8	21.3	11.9	7.2	3.4	1.7	0.9	1.3	0.0	0.0
75°	1052.7	237.7	16.6	8.9	4.7	2.1	1.3	0.0	1.3	0.4	0.0
77.5°	467.3	106.7	11.1	6.0	3.4	1.7	0.9	0.0	0.9	0.4	0.0
80°	118.2	34.9	6.4	4.3	2.6	1.3	0.4	0.0	0.9	0.9	0.4
82.5°	32.3	12.8	4.7	3.4	2.1	1.3	0.4	0.0	0.9	0.9	0.9
85°	12.8	6.0	4.3	3.4	2.6	1.3	0.4	0.0	0.9	0.9	0.9
87.5°	6.0	4.3	4.3	3.8	3.0	1.3	0.4	0.0	0.9	0.4	0.9
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)