

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: P452208

Luminaire Tested: **GALN-SA3A-827-U-T2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452208
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-827-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 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: 7502 lumens
Efficiency: N/A
Efficacy: 80.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

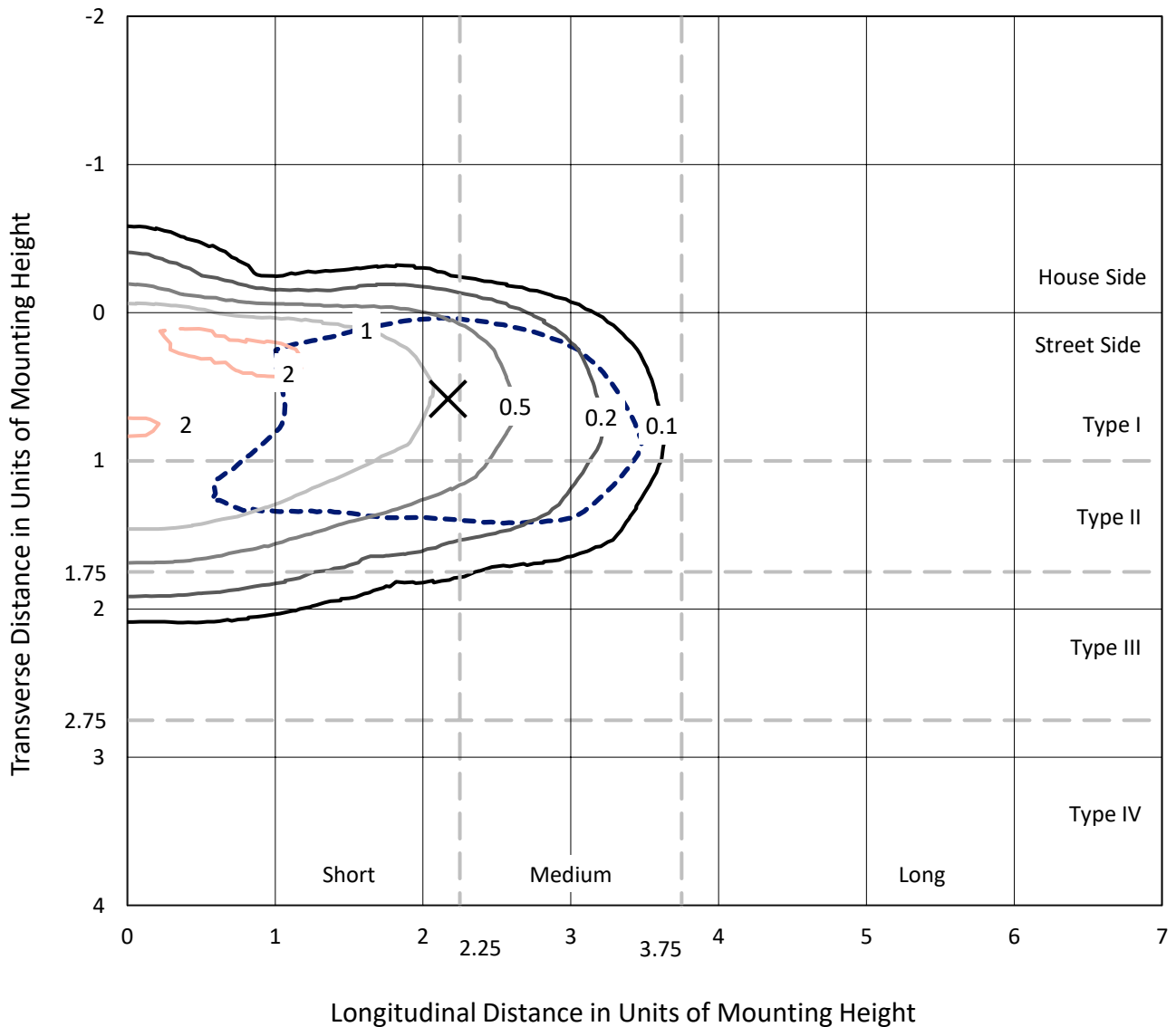
Input Watts (W): 93
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

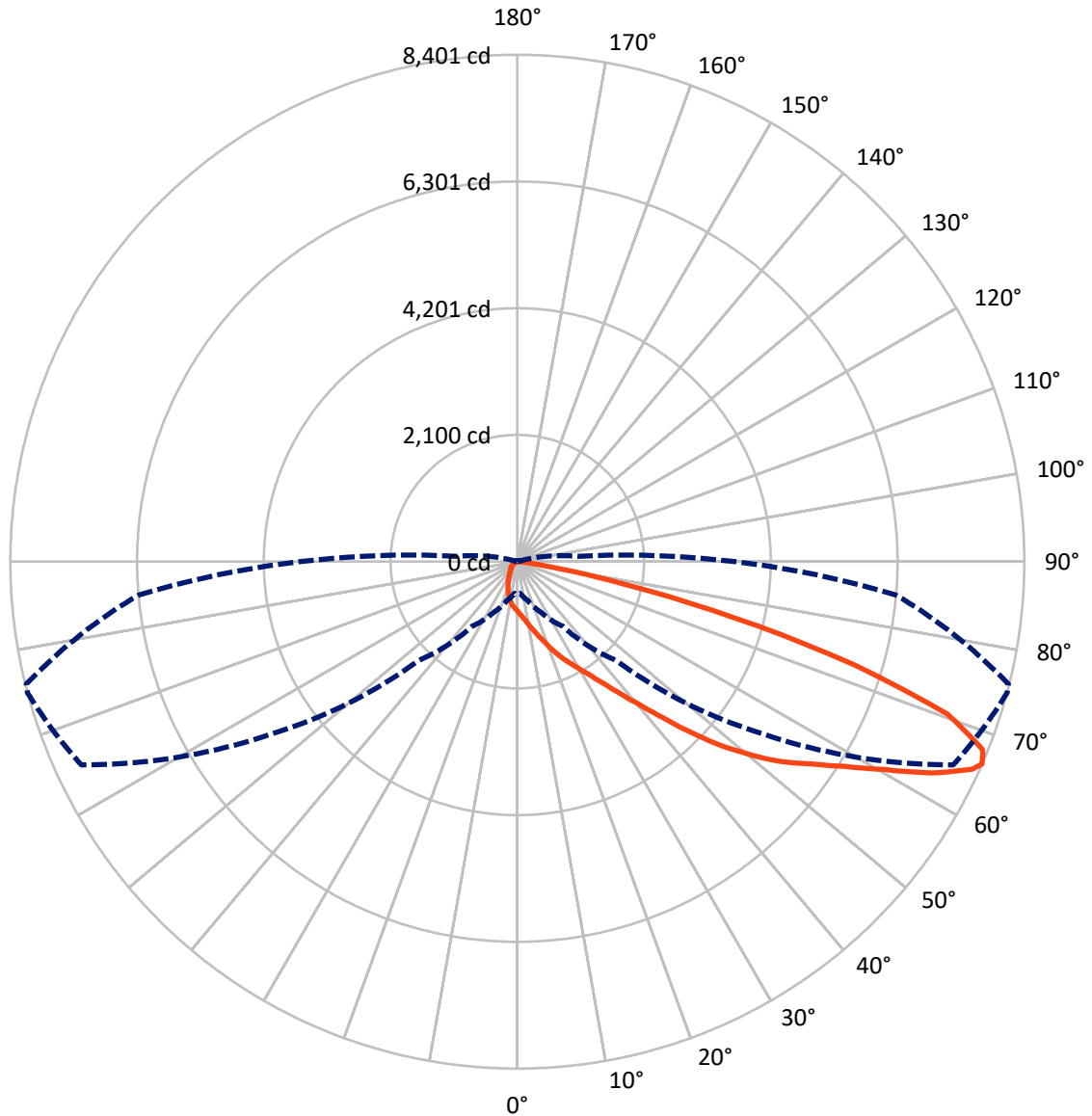
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 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	463.1	0.0	463.1
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	7038.9	0.0	7038.9
	% Fixture	93.8	0.0	93.8
Total	Lumens	7502.0	0.0	7502.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.1	1.1
10°-20°	232.9	3.1
20°-30°	402.1	5.4
30°-40°	725.4	9.7
40°-50°	1310.4	17.5
50°-60°	2043.0	27.2
60°-70°	1940.7	25.9
70°-80°	727.3	9.7
80°-90°	41.0	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°	7502.0	100.0
0°-180°	7502.0	100.0



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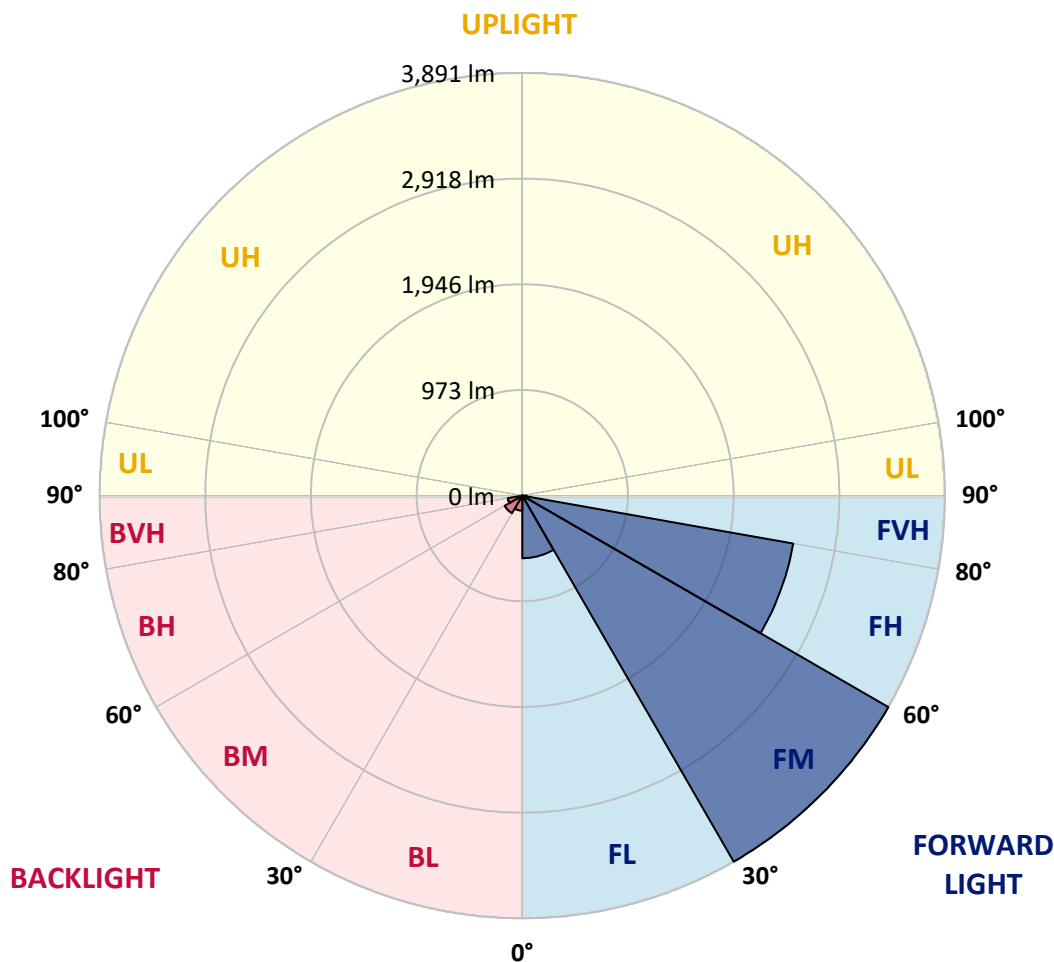
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	575.8	7.7			
FM (30°-60°)	3891.3	51.9			
FH (60°-80°)	2532.8	33.8			G2/5000
FVH (80°-90°)	38.9	0.5			G1/100
BL (0°-30°)	138.3	1.8	B1/500		
BM (30°-60°)	187.5	2.5	B0/220		
BH (60°-80°)	135.2	1.8	B1/500		G1/500
BVH (80°-90°)	2.1	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°	820.4	820.4	820.4	820.4	820.4	820.4	820.4	820.4	820.4	820.4	820.4
2.5°	980.2	968.0	971.9	966.3	953.5	934.7	918.0	894.2	870.3	866.5	839.8
5°	1109.4	1106.1	1101.7	1085.6	1076.7	1047.8	1013.5	972.4	923.0	914.2	865.9
7.5°	1197.6	1196.0	1198.2	1189.9	1182.1	1156.0	1119.4	1063.4	986.8	981.8	901.4
10°	1226.5	1230.9	1239.2	1252.5	1264.7	1256.4	1228.7	1158.8	1069.5	1055.1	941.9
12.5°	1209.8	1214.8	1234.8	1270.3	1309.7	1332.4	1321.3	1270.3	1157.1	1145.5	987.4
15°	1167.1	1173.2	1201.5	1256.4	1326.9	1391.2	1419.0	1382.3	1259.2	1240.3	1042.3
17.5°	1103.9	1112.8	1153.2	1225.9	1322.4	1433.4	1511.6	1499.4	1367.9	1350.2	1102.2
20°	1056.2	1062.8	1097.2	1180.4	1303.6	1456.7	1599.8	1634.2	1502.2	1471.6	1172.7
22.5°	1087.8	1090.0	1101.7	1151.6	1269.7	1462.8	1677.4	1774.5	1644.7	1617.5	1245.9
25°	1242.6	1220.4	1208.7	1197.6	1262.5	1457.2	1747.9	1921.0	1786.7	1757.9	1318.5
27.5°	1486.6	1476.6	1417.8	1339.1	1324.1	1464.4	1794.5	2059.6	1920.4	1889.3	1389.6
30°	1752.3	1735.1	1699.1	1583.7	1467.8	1515.5	1828.3	2194.4	2078.5	2037.5	1454.5
32.5°	1996.4	2007.5	1953.7	1835.0	1700.7	1624.2	1872.2	2341.4	2259.9	2208.9	1529.9
35°	2281.0	2303.2	2220.5	2106.8	1949.8	1820.6	1957.6	2507.3	2490.1	2425.8	1646.4
37.5°	2570.0	2583.3	2532.8	2373.1	2231.6	2070.2	2118.4	2712.0	2773.6	2718.6	1785.6
40°	2812.9	2831.2	2794.1	2652.1	2501.2	2359.2	2352.0	2935.0	3110.8	3054.2	1993.1
42.5°	2998.8	3012.6	3013.7	2913.3	2777.4	2713.1	2649.9	3219.5	3533.5	3468.1	2233.8
45°	3233.4	3253.4	3241.7	3173.5	3072.0	3060.3	3027.6	3563.5	4039.4	3956.8	2546.1
47.5°	3596.2	3609.5	3580.7	3500.2	3397.1	3415.4	3395.9	3949.0	4555.3	4484.3	2869.5
50°	3848.0	3870.2	3911.3	3943.4	3868.6	3800.9	3743.2	4309.0	5045.1	4981.3	3200.1
52.5°	3845.3	3881.9	4011.7	4173.6	4337.3	4316.8	4150.9	4706.7	5512.7	5434.0	3510.8
55°	3586.2	3657.2	3848.0	4135.4	4588.6	4814.3	4738.9	5167.1	5916.5	5863.3	3870.8
57.5°	3051.5	3094.7	3359.9	3761.5	4448.2	5048.4	5420.1	5791.2	6400.8	6375.9	4429.9
60°	2052.4	2071.8	2413.0	2909.5	3787.0	4814.9	5919.3	6546.1	6997.1	6984.9	5082.8
62.5°	1176.0	1184.3	1431.7	1850.5	2694.8	4080.5	5961.5	7477.5	7712.1	7718.8	5838.3
65°	632.9	637.4	837.1	1086.1	1639.7	2908.4	5360.7	7987.8	8290.2	8302.9	6306.5
66°	546.4	525.3	666.2	925.8	1304.7	2314.8	4980.8	7969.5	8401.1	8387.2	6289.9
67.5°	415.5	434.3	532.0	711.7	966.9	1645.8	4112.1	7615.1	8316.8	8273.5	6034.1
70°	297.3	305.1	378.9	507.6	658.4	903.1	2627.7	6324.8	7559.0	7500.8	5257.0
72.5°	191.9	200.3	268.5	367.2	475.9	493.1	1471.1	4569.7	5827.8	5819.5	3959.0
75°	137.0	144.8	177.5	262.9	357.8	305.1	708.4	3079.8	3704.9	3680.0	2449.0
77.5°	99.3	103.2	118.7	172.0	255.7	218.6	328.4	1644.7	1844.4	1931.5	1082.2
80°	57.1	60.5	82.7	104.8	173.1	149.2	157.0	660.1	680.6	647.9	338.4
82.5°	28.3	32.2	49.4	71.6	108.2	100.4	72.1	198.6	209.7	204.1	85.4
85°	6.7	8.3	27.7	47.2	52.7	44.9	34.9	58.2	72.1	70.4	32.7
87.5°	0.6	1.1	10.0	8.3	8.9	15.0	12.2	15.0	23.3	21.6	11.6
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°	820.4	820.4	820.4	820.4	820.4	820.4	820.4	820.4	820.4	820.4	820.4
2.5°	827.6	817.1	786.6	756.6	731.7	705.6	681.7	667.9	662.3	656.2	659.0
5°	839.3	813.8	752.2	698.9	646.8	602.4	566.9	544.2	533.1	531.4	528.6
7.5°	854.8	811.0	715.6	632.4	564.1	514.8	474.3	441.6	431.6	422.7	415.5
10°	873.7	806.0	670.1	562.5	489.8	427.7	374.4	335.6	315.6	310.1	314.0
12.5°	893.6	796.6	622.4	498.1	414.4	335.0	285.7	266.3	260.7	258.5	259.1
15°	913.6	784.9	572.5	436.0	330.1	267.4	244.6	239.6	237.4	236.3	235.2
17.5°	931.9	766.1	516.4	375.5	267.4	228.5	220.2	215.8	211.3	209.7	206.9
20°	953.5	744.4	466.0	307.9	226.3	206.9	196.9	188.6	181.9	177.5	177.0
22.5°	974.1	716.7	413.3	255.2	206.4	185.8	169.7	160.9	153.1	147.6	149.2
25°	985.2	682.8	366.1	222.4	188.0	164.7	147.0	135.9	127.6	124.8	124.3
27.5°	985.2	641.2	320.1	203.6	171.4	145.9	127.6	117.0	111.5	107.6	108.2
30°	977.4	595.2	277.4	189.2	157.0	129.2	112.1	102.6	98.2	95.4	94.9
32.5°	971.3	551.4	240.7	175.3	142.0	114.8	99.8	92.6	88.2	85.4	85.4
35°	980.7	513.7	212.5	161.4	128.1	103.7	90.4	83.8	79.3	77.1	76.6
37.5°	1005.7	479.3	190.8	146.4	115.4	94.3	83.8	76.0	71.6	68.8	67.7
40°	1067.3	459.9	174.7	132.6	103.2	86.5	76.0	68.8	63.2	60.5	59.9
42.5°	1166.0	460.4	159.2	119.8	93.7	79.9	69.3	61.0	54.9	52.1	51.6
45°	1314.7	481.5	147.0	107.6	85.4	72.7	62.1	53.3	47.7	44.9	44.9
47.5°	1492.7	522.5	136.5	97.1	77.7	66.0	54.9	46.0	40.5	38.3	38.3
50°	1685.8	575.8	125.9	86.0	71.0	58.8	47.2	39.9	35.5	33.8	33.8
52.5°	1882.7	640.1	115.4	77.1	63.8	51.0	40.5	35.5	31.6	30.5	30.0
55°	2141.2	722.2	104.3	67.7	56.0	43.8	36.1	31.1	26.6	25.0	24.4
57.5°	2538.9	845.9	92.1	59.4	46.0	36.6	31.1	26.1	21.1	18.3	17.8
60°	3018.7	996.8	79.3	52.1	37.2	30.0	25.0	20.0	15.5	12.2	11.6
62.5°	3468.1	1092.8	67.1	43.8	29.4	22.7	17.8	15.0	11.1	7.8	7.2
65°	3666.6	1060.6	55.5	35.5	23.3	16.1	11.6	10.5	6.7	3.3	2.8
66°	3600.6	1012.9	51.0	32.2	21.1	13.9	10.0	8.9	5.0	1.7	1.7
67.5°	3405.9	900.3	44.4	27.7	18.3	11.1	7.8	6.7	2.8	0.6	0.0
70°	2918.3	728.3	34.9	20.5	13.3	7.8	4.4	3.3	1.7	0.0	0.0
72.5°	2241.6	542.5	27.7	15.5	9.4	4.4	2.2	1.1	1.7	0.0	0.0
75°	1373.5	310.1	21.6	11.6	6.1	2.8	1.7	0.0	1.7	0.6	0.0
77.5°	609.6	139.2	14.4	7.8	4.4	2.2	1.1	0.0	1.1	0.6	0.0
80°	154.2	45.5	8.3	5.5	3.3	1.7	0.6	0.0	1.1	1.1	0.6
82.5°	42.2	16.6	6.1	4.4	2.8	1.7	0.6	0.0	1.1	1.1	1.1
85°	16.6	7.8	5.5	4.4	3.3	1.7	0.6	0.0	1.1	1.1	1.1
87.5°	7.8	5.5	5.5	5.0	3.9	1.7	0.6	0.0	1.1	0.6	1.1
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)