

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: P452067

Luminaire Tested: **GALN-SA3A-727-U-T3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452067
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-13)
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-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8382 lumens
Efficiency: N/A
Efficacy: 90.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

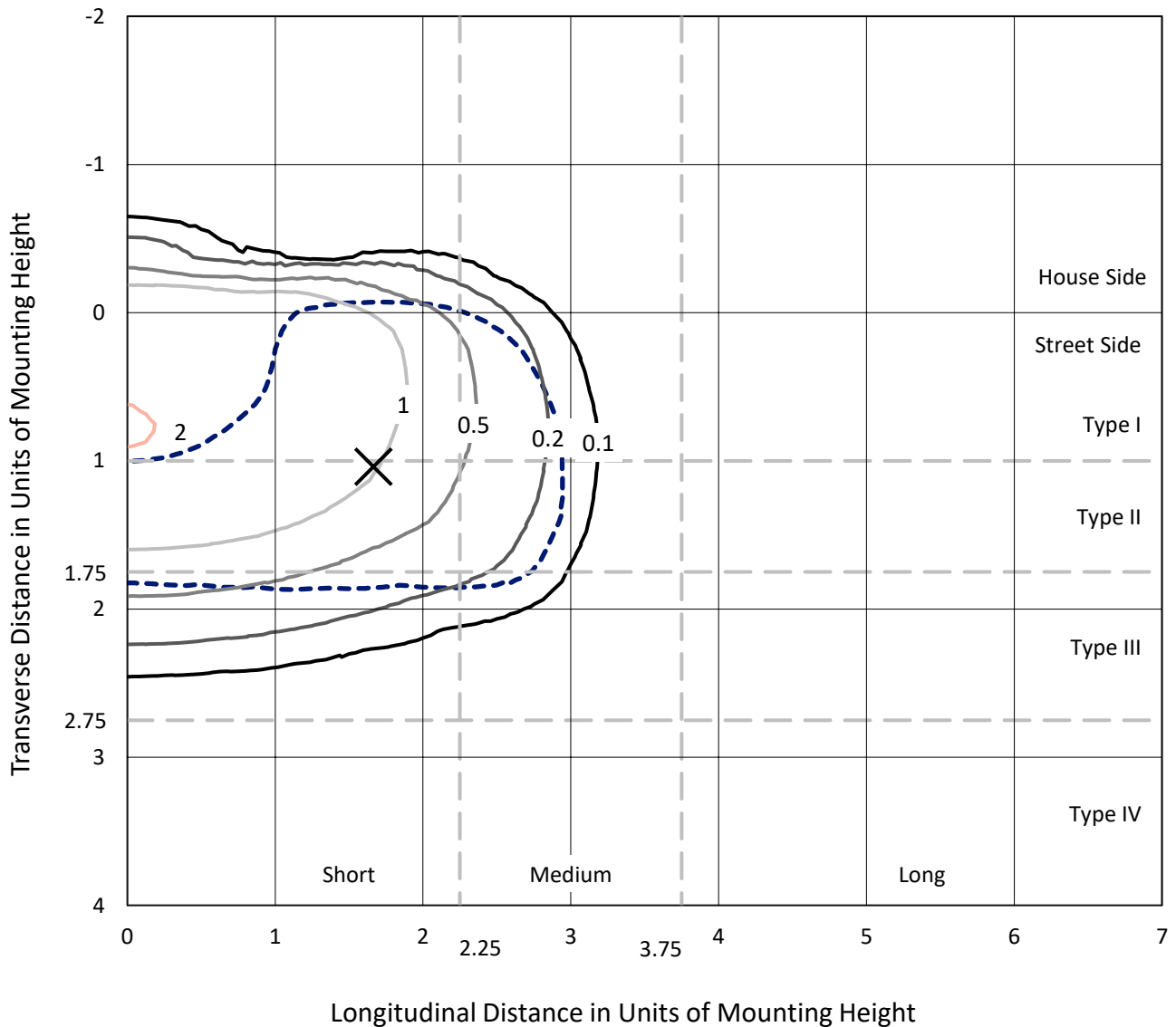
Input Watts (W): 93
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P452067
 CATALOG NUMBER: GALN-SA3A-727-U-T3-HSS

Iso-Footcandle Lines of Horizontal Illumination

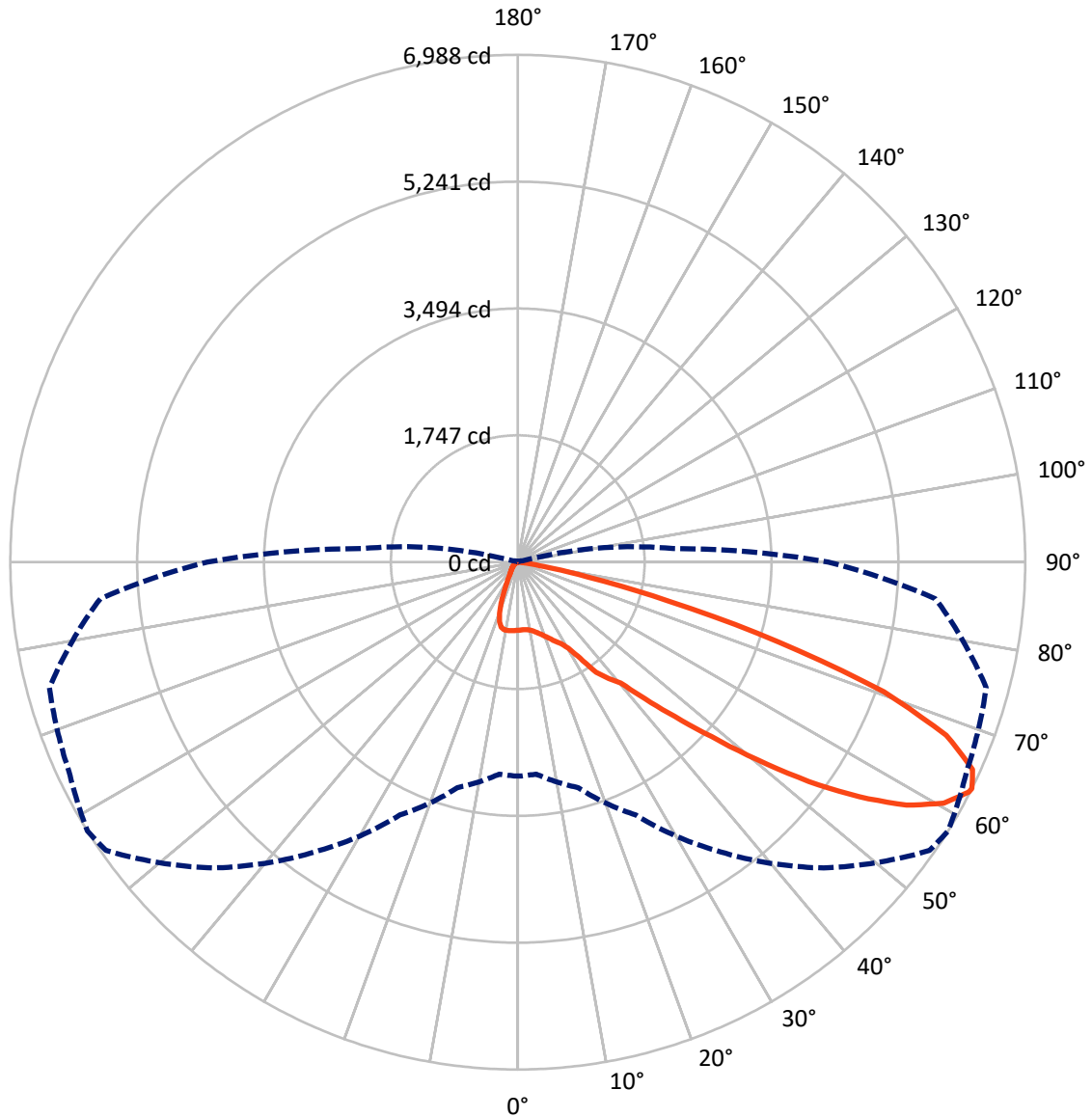
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 fc
 Type III - Short - N/A

REPORT NUMBER: P452067
CATALOG NUMBER: GALN-SA3A-727-U-T3-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 63-Deg Vertical

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CATALOG NUMBER: GALN-SA3A-727-U-T3-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	867.9	0.0	867.9
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	7514.1	0.0	7514.1
	% Fixture	89.6	0.0	89.6
Total	Lumens	8382.0	0.0	8382.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.8	1.0
10°-20°	239.3	2.9
20°-30°	415.3	5.0
30°-40°	763.1	9.1
40°-50°	1436.5	17.1
50°-60°	2457.0	29.3
60°-70°	2352.6	28.1
70°-80°	599.9	7.2
80°-90°	30.7	0.4
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°	8382.0	100.0
0°-180°	8382.0	100.0

Coefficient of Utilization



REPORT NUMBER: P452067

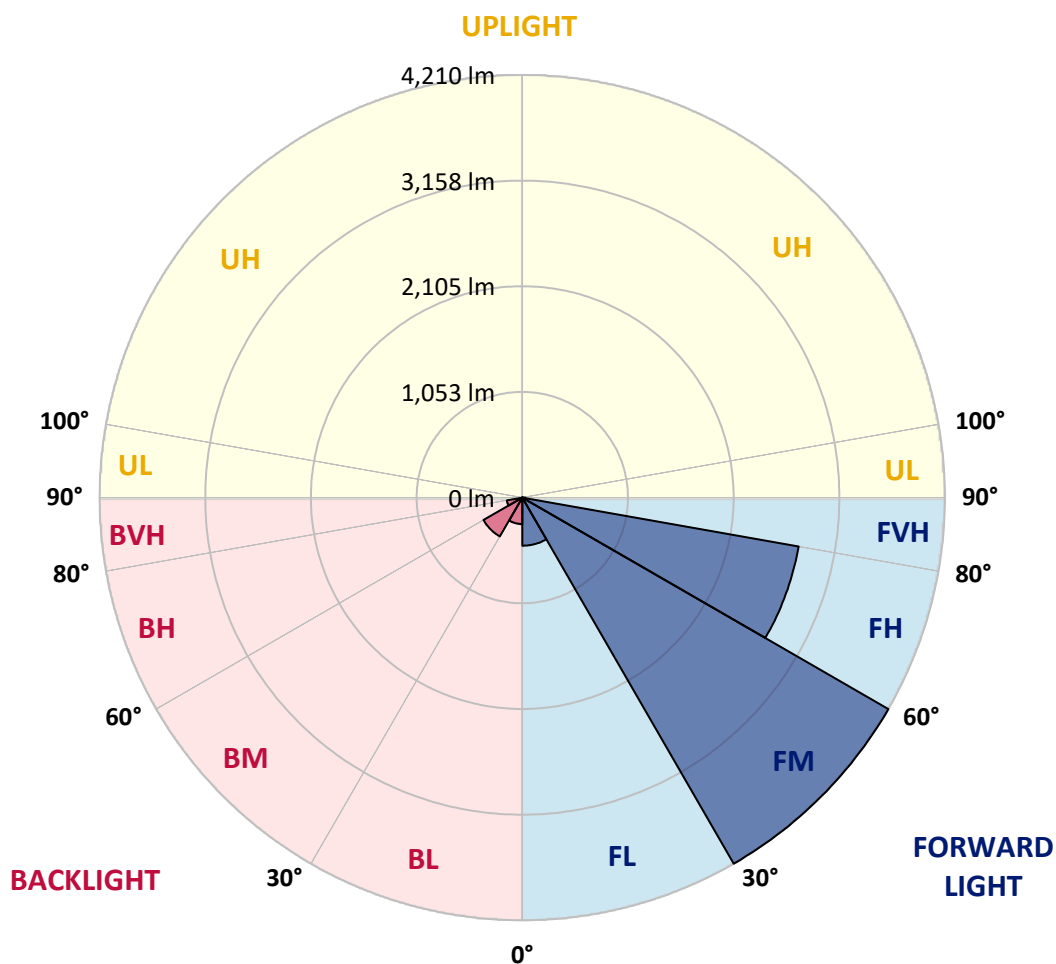
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	479.2	5.7			
FM (30°-60°)	4210.1	50.2			
FH (60°-80°)	2795.4	33.3			G2/5000
FVH (80°-90°)	29.5	0.4			G1/100
BL (0°-30°)	263.2	3.1	B1/500		
BM (30°-60°)	446.4	5.3	B1/1000		
BH (60°-80°)	157.1	1.9	B1/500		G1/500
BVH (80°-90°)	1.2	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 III Short





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CATALOG NUMBER: GALN-SA3A-727-U-T3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	938.4	938.4	938.4	938.4	938.4	938.4	938.4	938.4	938.4	938.4	938.4
2.5°	915.0	918.2	921.4	922.6	927.0	931.5	934.6	934.0	939.0	941.6	941.6
5°	878.4	878.4	886.6	894.2	906.8	919.5	931.5	934.0	943.4	952.3	955.4
7.5°	847.5	849.4	855.7	869.6	886.6	908.7	932.7	938.4	954.8	974.4	982.6
10°	833.0	834.3	842.5	857.0	878.4	908.7	942.2	952.9	978.2	1009.1	1020.4
12.5°	829.9	831.7	840.0	856.4	881.0	917.6	963.0	974.4	1011.0	1050.7	1067.8
15°	835.5	836.8	845.0	862.7	889.8	933.3	990.8	1006.6	1050.1	1096.2	1118.3
17.5°	855.7	854.5	860.1	874.7	905.0	952.9	1024.2	1043.2	1094.3	1157.4	1171.9
20°	941.6	933.3	928.3	915.7	927.7	980.7	1064.6	1092.4	1155.5	1219.9	1230.0
22.5°	1126.5	1108.2	1072.2	1023.0	985.1	1018.5	1113.2	1145.4	1226.8	1289.9	1289.9
25°	1361.8	1338.5	1302.5	1195.2	1102.5	1081.0	1168.1	1208.5	1304.4	1368.2	1347.3
27.5°	1656.6	1638.3	1568.2	1443.3	1301.3	1190.2	1231.8	1269.1	1373.2	1450.2	1406.6
30°	1896.4	1887.5	1830.1	1718.4	1561.9	1399.7	1350.5	1375.1	1464.7	1553.7	1508.9
32.5°	2098.9	2098.9	2040.2	1936.1	1789.7	1645.8	1551.8	1569.5	1655.3	1758.2	1674.9
35°	2321.7	2314.1	2266.8	2167.7	2003.6	1876.8	1838.3	1862.3	1939.9	2016.3	1811.2
37.5°	2555.8	2553.3	2504.1	2408.2	2274.4	2114.7	2024.5	2030.8	2070.5	2117.2	1970.8
40°	2810.1	2813.9	2749.6	2690.2	2564.0	2400.6	2227.7	2187.9	2225.1	2357.0	2265.5
42.5°	3110.5	3101.7	3073.9	2993.2	2891.6	2793.7	2586.1	2571.6	2604.4	2745.8	2646.7
45°	3459.5	3472.1	3424.2	3379.4	3311.2	3229.8	3056.3	3031.0	3067.0	3286.6	3145.9
47.5°	3809.1	3797.1	3828.1	3819.9	3856.5	3795.9	3642.5	3590.8	3677.2	3885.5	3678.5
50°	4075.4	4088.7	4153.1	4247.1	4404.2	4438.3	4291.3	4273.6	4312.1	4445.9	4154.9
52.5°	4248.3	4292.5	4393.5	4635.2	4918.5	5138.8	5027.1	5017.6	5001.8	5037.8	4610.6
55°	4361.3	4406.1	4538.0	4893.9	5381.7	5739.6	5745.2	5704.8	5600.7	5574.8	5036.5
57.5°	4291.9	4300.7	4488.8	4964.6	5638.6	6168.1	6353.6	6313.2	6120.7	6022.9	5412.7
60°	3857.7	3876.0	4137.9	4697.0	5526.9	6308.2	6756.8	6738.5	6527.8	6417.3	5705.5
62.5°	3088.4	3141.5	3410.9	4034.4	5007.5	6072.1	6920.3	6972.0	6808.0	6655.9	5797.6
63°	2947.1	2930.0	3214.7	3841.3	4869.9	5955.4	6922.8	6988.4	6820.6	6678.6	5772.4
65°	2181.6	2232.7	2417.6	3029.1	4052.7	5412.0	6766.9	6883.1	6773.9	6578.2	5492.8
67.5°	1224.9	1222.4	1426.8	1982.2	2836.6	4245.2	6118.8	6364.3	6341.6	5903.0	4553.2
70°	599.5	609.0	692.9	1027.4	1645.2	2928.8	5084.5	5349.6	5357.8	4636.5	3148.4
72.5°	271.4	275.8	335.7	500.4	845.6	1559.4	3503.7	3756.7	3710.0	2954.7	1738.6
75°	143.3	152.7	184.9	251.8	407.7	643.1	1905.8	2150.7	2052.9	1349.9	639.9
77.5°	106.0	109.2	125.6	160.3	218.3	250.5	822.3	978.2	916.3	488.4	212.0
80°	77.6	80.1	93.4	113.6	137.6	127.5	309.9	355.3	318.7	166.0	65.0
82.5°	47.3	48.0	68.2	84.6	86.5	71.3	102.2	109.8	114.9	93.4	35.3
85°	17.0	21.5	46.1	61.2	51.1	36.0	42.9	47.3	51.7	59.3	20.8
87.5°	1.9	2.5	22.1	29.7	14.5	13.3	15.8	17.7	18.9	22.1	10.1
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°	938.4	938.4	938.4	938.4	938.4	938.4	938.4	938.4	938.4	938.4	938.4
2.5°	944.1	946.6	944.7	941.6	940.9	939.0	935.2	935.2	935.2	936.5	935.2
5°	958.0	959.9	955.4	949.1	942.2	933.3	923.9	918.2	917.6	916.3	913.2
7.5°	984.5	987.0	976.9	961.7	942.8	921.4	901.2	882.2	873.4	866.5	866.5
10°	1023.0	1025.5	1005.3	978.2	940.3	896.7	848.8	805.2	771.2	755.4	751.6
12.5°	1069.0	1070.3	1036.8	989.5	927.0	843.1	740.9	645.6	579.3	549.0	545.9
15°	1119.5	1110.7	1066.5	993.9	889.2	732.7	556.0	439.2	370.4	350.2	357.8
17.5°	1170.6	1154.2	1089.2	987.0	804.0	556.0	373.6	299.8	278.3	272.6	272.6
20°	1218.6	1195.9	1105.6	956.7	656.3	383.1	277.0	259.4	255.6	251.8	252.4
22.5°	1266.6	1231.8	1120.1	889.2	489.1	273.9	248.0	242.3	237.3	232.2	231.6
25°	1313.3	1265.3	1125.8	764.2	333.2	235.4	226.6	219.0	208.9	203.2	201.9
27.5°	1361.8	1305.7	1122.0	606.5	243.0	210.8	201.9	191.2	179.2	169.1	169.1
30°	1455.2	1382.7	1108.8	436.1	204.5	185.5	174.2	157.1	143.9	133.8	133.2
32.5°	1582.7	1483.0	1063.3	306.7	181.7	163.4	146.4	127.5	113.6	106.0	106.0
35°	1696.3	1584.0	978.2	225.9	163.4	142.0	121.2	102.9	92.1	87.1	85.2
37.5°	1869.2	1731.6	860.8	183.6	145.8	123.1	101.6	84.6	75.7	71.9	71.9
40°	2128.6	1912.1	716.9	160.9	128.7	104.8	84.6	71.3	64.4	60.0	60.0
42.5°	2450.4	2133.0	571.1	144.5	113.0	90.2	70.7	60.6	54.3	51.1	50.5
45°	2855.6	2365.9	439.9	129.4	100.3	77.0	60.0	51.1	44.8	42.9	43.5
47.5°	3278.4	2571.0	340.8	116.1	87.1	65.0	51.1	44.2	39.8	37.2	37.2
50°	3639.4	2712.3	258.7	101.0	77.0	54.9	44.8	39.8	36.0	34.7	34.1
52.5°	3941.0	2753.3	198.2	87.7	67.5	47.3	39.8	36.0	32.8	30.9	30.9
55°	4197.9	2717.4	155.2	73.8	56.8	41.0	35.3	32.2	28.4	26.5	25.9
57.5°	4348.1	2601.9	118.6	61.2	46.1	34.1	30.9	27.1	22.7	19.6	19.6
60°	4423.8	2434.0	90.9	50.5	35.3	27.1	25.2	20.2	15.8	13.3	12.6
62.5°	4332.9	2211.3	68.8	39.8	26.5	20.2	17.0	14.5	10.1	7.6	7.6
63°	4276.7	2146.9	66.3	37.9	24.6	18.9	15.8	13.3	8.8	6.9	6.3
65°	3898.7	1866.1	54.3	30.3	19.6	13.3	10.7	9.5	6.3	3.2	2.5
67.5°	3096.0	1427.5	42.9	22.7	13.9	9.5	6.3	5.7	1.9	0.0	0.0
70°	2093.3	922.0	33.4	16.4	9.5	5.7	3.2	2.5	0.6	0.0	0.0
72.5°	1091.7	472.7	25.9	12.0	5.7	3.8	1.9	0.6	0.0	0.0	0.0
75°	386.2	160.9	18.9	7.6	3.8	1.9	0.6	0.0	0.0	0.0	0.0
77.5°	116.7	60.0	12.0	5.7	2.5	1.3	0.0	0.0	0.0	0.0	0.0
80°	41.0	22.1	6.9	3.8	1.9	0.6	0.0	0.0	0.0	0.0	0.0
82.5°	20.2	10.7	4.4	3.2	1.9	0.6	0.0	0.0	0.0	0.0	0.0
85°	11.4	6.9	3.8	3.2	1.9	1.3	0.0	0.0	0.0	0.0	0.0
87.5°	8.2	5.0	3.8	3.2	2.5	1.3	0.6	0.0	0.0	0.0	0.0
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)