

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: P455775

Luminaire Tested: **GALN-SA7A-727-U-T2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455775
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-SA7A-727-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 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: 19914 lumens
Efficiency: N/A
Efficacy: 92.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G3

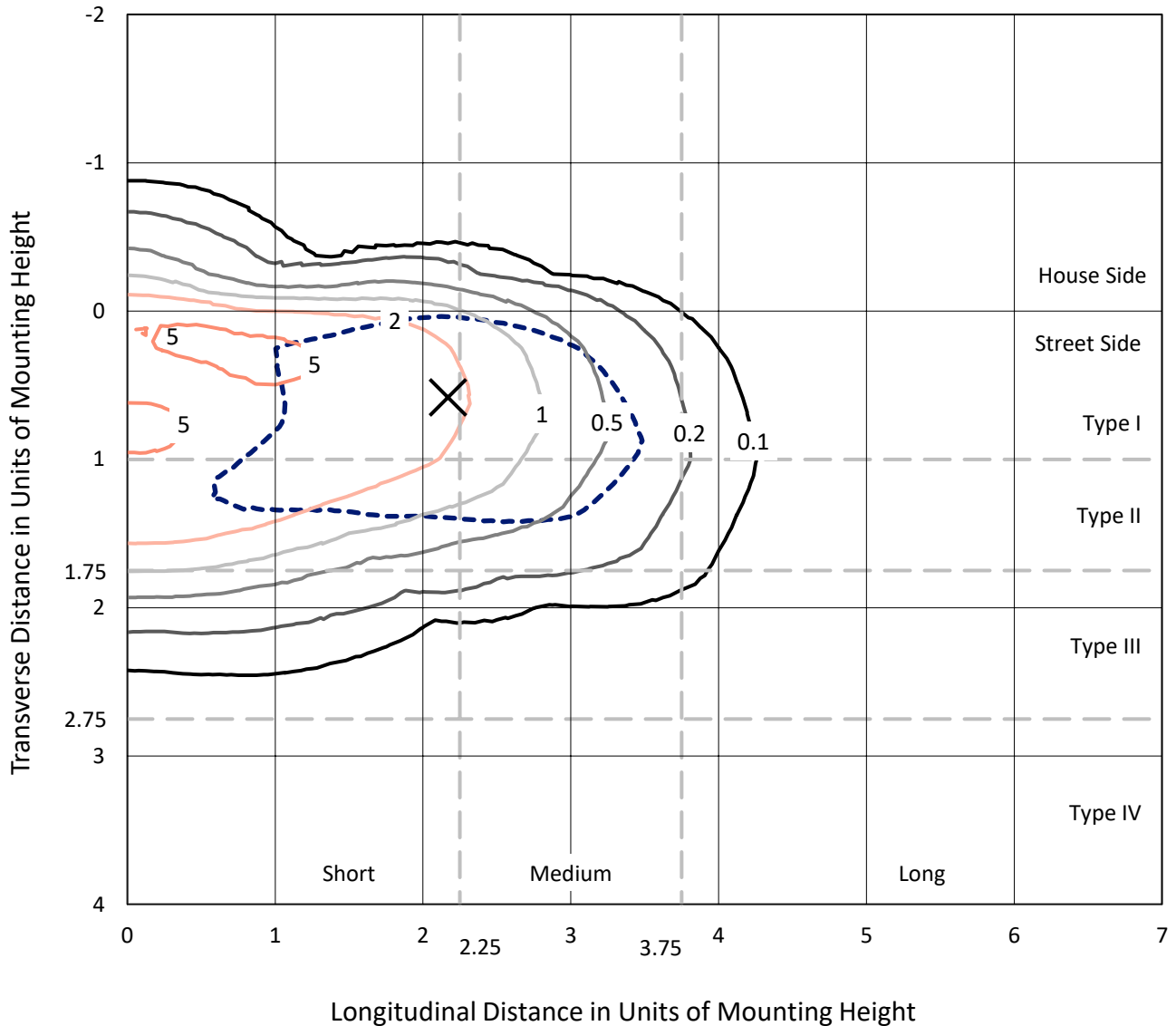
Input Watts (W): 215
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P455775
 CATALOG NUMBER: GALN-SA7A-727-U-T2-HSS

Iso-Footcandle Lines of Horizontal Illumination

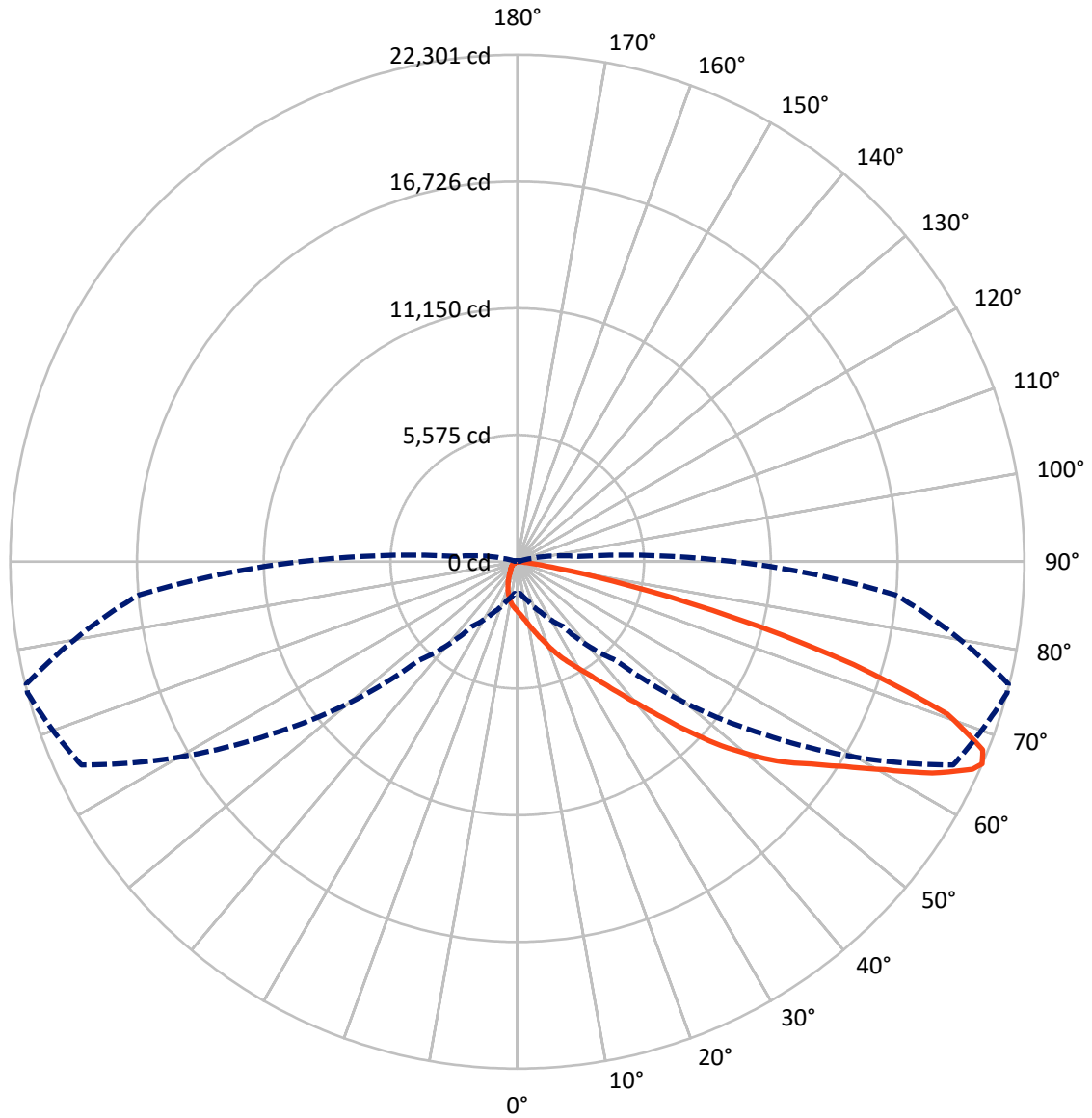
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 fc
 Type II - Short - N/A

REPORT NUMBER: P455775
CATALOG NUMBER: GALN-SA7A-727-U-T2-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

REPORT NUMBER: P455775

CATALOG NUMBER: GALN-SA7A-727-U-T2-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1229.4	0.0	1229.4
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	18684.6	0.0	18684.6
	% Fixture	93.8	0.0	93.8
Total	Lumens	19914.0	0.0	19914.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	210.1	1.1
10°-20°	618.2	3.1
20°-30°	1067.5	5.4
30°-40°	1925.5	9.7
40°-50°	3478.5	17.5
50°-60°	5423.0	27.2
60°-70°	5151.6	25.9
70°-80°	1930.7	9.7
80°-90°	108.9	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°	19914.0	100.0
0°-180°	19914.0	100.0



REPORT NUMBER: P455775

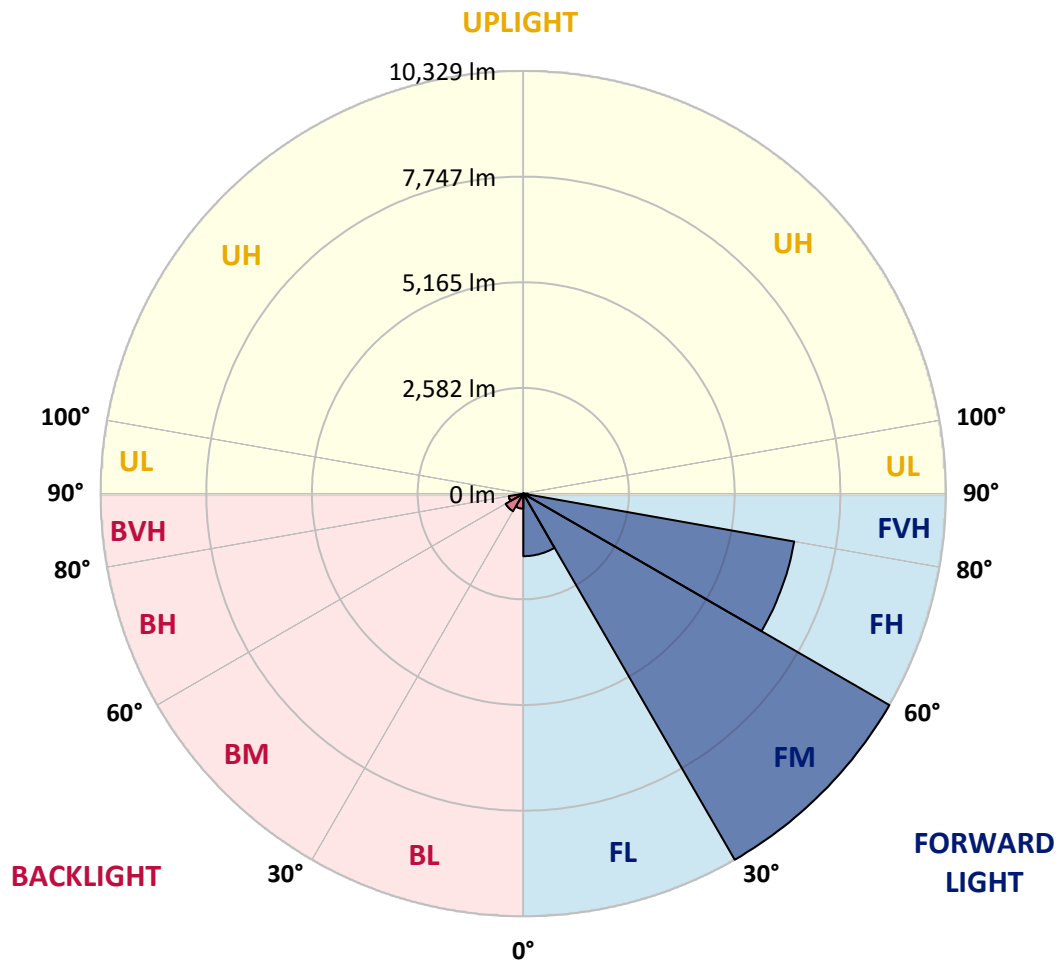
CATALOG NUMBER: GALN-SA7A-727-U-T2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1528.6	7.7			
FM (30°-60°)	10329.4	51.9			
FH (60°-80°)	6723.3	33.8			G3/7500
FVH (80°-90°)	103.3	0.5			G2/225
BL (0°-30°)	367.2	1.8	B1/500		
BM (30°-60°)	497.6	2.5	B1/1000		
BH (60°-80°)	359.0	1.8	B1/500		G1/500
BVH (80°-90°)	5.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type II Short





REPORT NUMBER: P455775

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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2177.8	2177.8	2177.8	2177.8	2177.8	2177.8	2177.8	2177.8	2177.8	2177.8	2177.8
2.5°	2601.9	2569.5	2579.8	2565.1	2531.2	2481.1	2436.9	2373.6	2310.3	2300.0	2229.3
5°	2945.0	2936.1	2924.3	2881.6	2858.1	2781.5	2690.2	2581.3	2450.2	2426.6	2298.5
7.5°	3179.1	3174.7	3180.5	3158.5	3137.8	3068.6	2971.5	2822.7	2619.5	2606.3	2392.8
10°	3255.6	3267.4	3289.5	3324.9	3357.2	3335.2	3261.5	3076.0	2838.9	2800.7	2500.3
12.5°	3211.5	3224.7	3277.7	3372.0	3476.5	3536.9	3507.4	3372.0	3071.6	3040.7	2621.0
15°	3098.1	3114.3	3189.4	3335.2	3522.2	3693.0	3766.6	3669.4	3342.5	3292.5	2766.8
17.5°	2930.2	2953.8	3061.3	3254.2	3510.4	3804.9	4012.5	3980.1	3631.1	3584.0	2925.8
20°	2803.6	2821.3	2912.6	3133.4	3460.3	3866.7	4246.6	4337.9	3987.5	3906.5	3112.8
22.5°	2887.5	2893.4	2924.3	3056.9	3370.5	3882.9	4452.8	4710.5	4365.9	4293.7	3307.2
25°	3298.3	3239.4	3208.5	3179.1	3351.4	3868.2	4639.8	5099.2	4742.8	4666.3	3500.1
27.5°	3946.2	3919.7	3763.6	3554.6	3514.8	3887.3	4763.5	5467.3	5097.7	5015.3	3688.6
30°	4651.6	4605.9	4510.2	4203.9	3896.2	4022.8	4853.3	5825.1	5517.4	5408.4	3860.8
32.5°	5299.4	5328.9	5186.1	4871.0	4514.6	4311.4	4969.6	6215.3	5998.9	5863.4	4061.1
35°	6054.8	6113.7	5894.3	5592.5	5175.8	4832.7	5196.4	6655.6	6609.9	6439.1	4370.3
37.5°	6822.0	6857.3	6723.3	6299.3	5923.8	5495.3	5623.4	7198.9	7362.4	7216.6	4739.9
40°	7466.9	7515.5	7416.9	7039.9	6639.4	6262.4	6243.3	7790.9	8257.6	8107.5	5290.6
42.5°	7960.2	7997.0	8000.0	7733.4	7372.7	7201.9	7034.0	8546.3	9379.7	9205.9	5929.7
45°	8583.1	8636.1	8605.2	8424.0	8154.6	8123.7	8036.8	9459.2	10722.6	10503.2	6758.7
47.5°	9546.1	9581.4	9504.8	9291.3	9017.4	9066.0	9014.5	10482.6	12092.0	11903.5	7617.1
50°	10214.6	10273.5	10382.4	10467.8	10269.1	10089.4	9936.3	11438.2	13392.2	13222.8	8494.7
52.5°	10207.2	10304.4	10649.0	11078.9	11513.3	11458.8	11018.5	12494.0	14633.5	14424.4	9319.3
55°	9519.6	9708.0	10214.6	10977.3	12180.3	12779.6	12579.4	13716.1	15705.4	15564.1	10274.9
57.5°	8100.1	8214.9	8918.8	9984.9	11807.8	13401.0	14387.6	15372.7	16990.9	16924.6	11759.2
60°	5448.2	5499.7	6405.3	7723.1	10052.6	12781.1	15712.8	17376.7	18573.8	18541.4	13492.3
62.5°	3121.7	3143.7	3800.5	4912.2	7153.3	10831.5	15824.7	19849.0	20471.8	20489.5	15497.8
65°	1680.1	1691.9	2222.0	2883.1	4352.6	7720.2	14230.0	21203.7	22006.2	22040.0	16740.6
66°	1450.4	1394.4	1768.4	2457.6	3463.3	6144.6	13221.4	21155.1	22300.7	22263.8	16696.4
67.5°	1102.9	1152.9	1412.1	1889.2	2566.5	4368.8	10915.5	20214.2	22076.8	21962.0	16017.6
70°	789.2	809.9	1005.7	1347.3	1747.8	2397.2	6975.1	16789.2	20065.4	19910.8	13954.7
72.5°	509.5	531.6	712.7	974.8	1263.4	1309.0	3905.0	12130.3	15469.8	15447.8	10509.1
75°	363.7	384.3	471.2	698.0	949.7	809.9	1880.4	8175.2	9834.7	9768.4	6501.0
77.5°	263.6	273.9	315.1	456.5	678.8	580.2	871.7	4365.9	4896.0	5127.2	2872.8
80°	151.7	160.5	219.4	278.3	459.4	396.1	416.7	1752.2	1806.7	1719.9	898.2
82.5°	75.1	85.4	131.1	189.9	287.1	266.5	191.4	527.1	556.6	541.9	226.8
85°	17.7	22.1	73.6	125.2	139.9	119.3	92.8	154.6	191.4	187.0	86.9
87.5°	1.5	2.9	26.5	22.1	23.6	39.8	32.4	39.8	61.8	57.4	30.9
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°	2177.8	2177.8	2177.8	2177.8	2177.8	2177.8	2177.8	2177.8	2177.8	2177.8	2177.8
2.5°	2196.9	2169.0	2088.0	2008.5	1942.2	1873.0	1809.7	1772.9	1758.1	1741.9	1749.3
5°	2227.9	2160.1	1996.7	1855.3	1716.9	1599.1	1504.9	1444.5	1415.0	1410.6	1403.3
7.5°	2269.1	2152.8	1899.5	1678.6	1497.5	1366.5	1259.0	1172.1	1145.6	1122.0	1102.9
10°	2319.2	2139.5	1778.8	1493.1	1300.2	1135.3	993.9	890.8	837.8	823.1	833.4
12.5°	2372.2	2114.5	1652.1	1322.3	1099.9	889.4	758.3	706.8	692.1	686.2	687.6
15°	2425.2	2083.6	1519.6	1157.4	876.1	709.7	649.4	636.1	630.2	627.3	624.3
17.5°	2473.8	2033.5	1370.9	996.9	709.7	606.7	584.6	572.8	561.0	556.6	549.2
20°	2531.2	1976.1	1236.9	817.2	600.8	549.2	522.7	500.6	483.0	471.2	469.7
22.5°	2585.7	1902.4	1097.0	677.3	547.8	493.3	450.6	427.0	406.4	391.7	396.1
25°	2615.1	1812.6	971.8	590.5	499.2	437.3	390.2	360.8	338.7	331.3	329.8
27.5°	2615.1	1702.2	849.6	540.4	455.0	387.3	338.7	310.7	296.0	285.7	287.1
30°	2594.5	1580.0	736.2	502.1	416.7	343.1	297.4	272.4	260.6	253.3	251.8
32.5°	2578.3	1463.6	639.1	465.3	377.0	304.8	265.0	245.9	234.1	226.8	226.8
35°	2603.3	1363.5	564.0	428.5	340.1	275.4	240.0	222.3	210.6	204.7	203.2
37.5°	2669.6	1272.2	506.5	388.7	306.3	250.3	222.3	201.7	189.9	182.6	179.6
40°	2833.0	1220.7	463.8	351.9	273.9	229.7	201.7	182.6	167.9	160.5	159.0
42.5°	3095.1	1222.2	422.6	318.1	248.8	212.0	184.1	162.0	145.8	138.4	136.9
45°	3489.8	1278.1	390.2	285.7	226.8	192.9	164.9	141.4	126.6	119.3	119.3
47.5°	3962.4	1387.1	362.2	257.7	206.1	175.2	145.8	122.2	107.5	101.6	101.6
50°	4474.9	1528.4	334.3	228.2	188.5	156.1	125.2	106.0	94.2	89.8	89.8
52.5°	4997.6	1699.2	306.3	204.7	169.3	135.5	107.5	94.2	83.9	81.0	79.5
55°	5683.8	1917.2	276.8	179.6	148.7	116.3	95.7	82.5	70.7	66.3	64.8
57.5°	6739.5	2245.5	244.4	157.6	122.2	97.2	82.5	69.2	56.0	48.6	47.1
60°	8013.2	2646.0	210.6	138.4	98.7	79.5	66.3	53.0	41.2	32.4	30.9
62.5°	9205.9	2900.8	178.2	116.3	78.0	60.4	47.1	39.8	29.4	20.6	19.1
65°	9733.1	2815.4	147.2	94.2	61.8	42.7	30.9	28.0	17.7	8.8	7.4
66°	9557.8	2688.7	135.5	85.4	56.0	36.8	26.5	23.6	13.3	4.4	4.4
67.5°	9041.0	2389.8	117.8	73.6	48.6	29.4	20.6	17.7	7.4	1.5	0.0
70°	7746.7	1933.4	92.8	54.5	35.3	20.6	11.8	8.8	4.4	0.0	0.0
72.5°	5950.3	1440.1	73.6	41.2	25.0	11.8	5.9	2.9	4.4	0.0	0.0
75°	3645.9	823.1	57.4	30.9	16.2	7.4	4.4	0.0	4.4	1.5	0.0
77.5°	1618.3	369.6	38.3	20.6	11.8	5.9	2.9	0.0	2.9	1.5	0.0
80°	409.3	120.7	22.1	14.7	8.8	4.4	1.5	0.0	2.9	2.9	1.5
82.5°	111.9	44.2	16.2	11.8	7.4	4.4	1.5	0.0	2.9	2.9	2.9
85°	44.2	20.6	14.7	11.8	8.8	4.4	1.5	0.0	2.9	2.9	2.9
87.5°	20.6	14.7	14.7	13.3	10.3	4.4	1.5	0.0	2.9	1.5	2.9
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)