

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: P452094

Luminaire Tested: **GALN-SA3A-730-U-T2R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452094
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-7)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA3A-730-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9954 lumens
Efficiency: N/A
Efficacy: 107.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

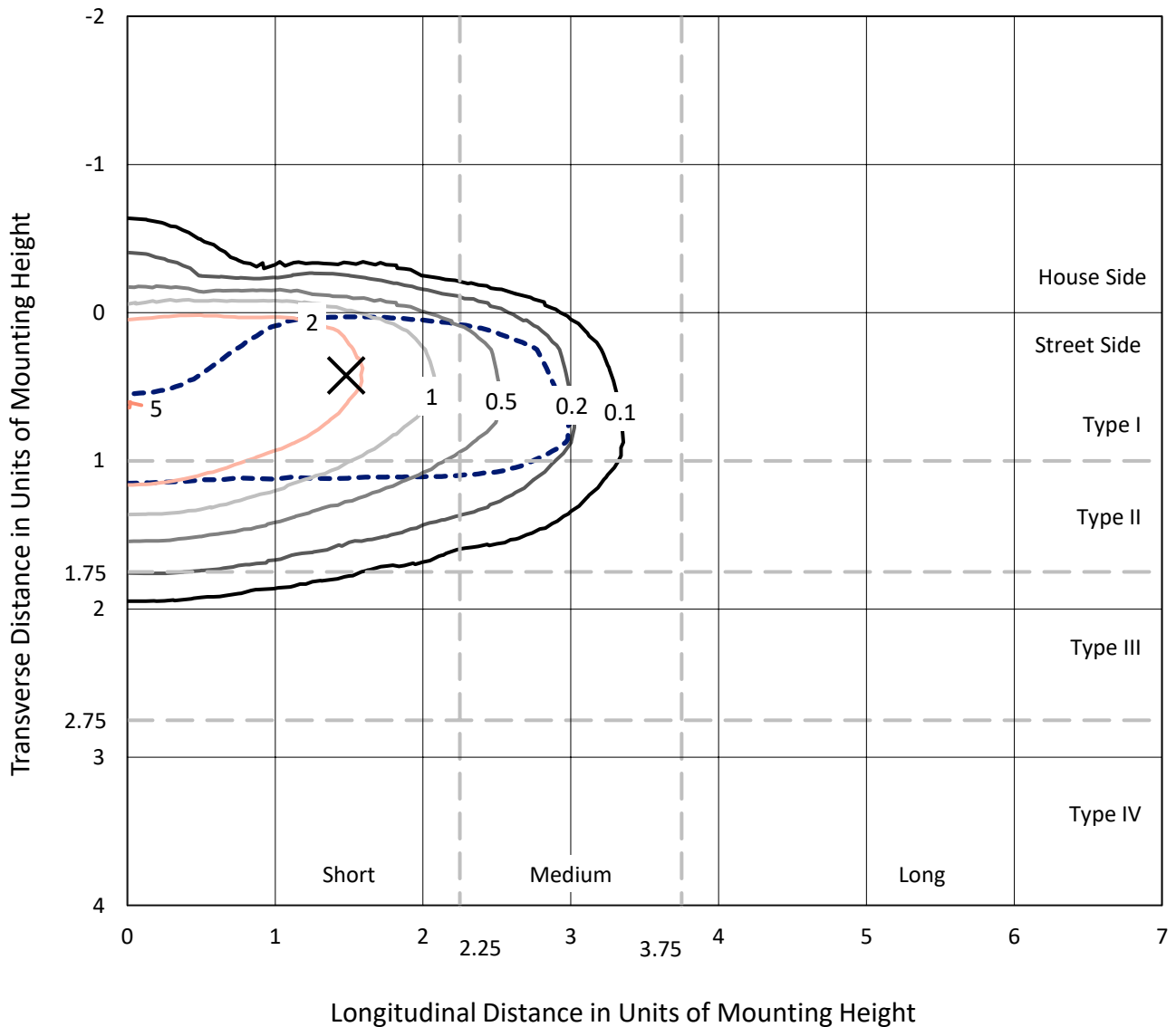
Input Watts (W): 93
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

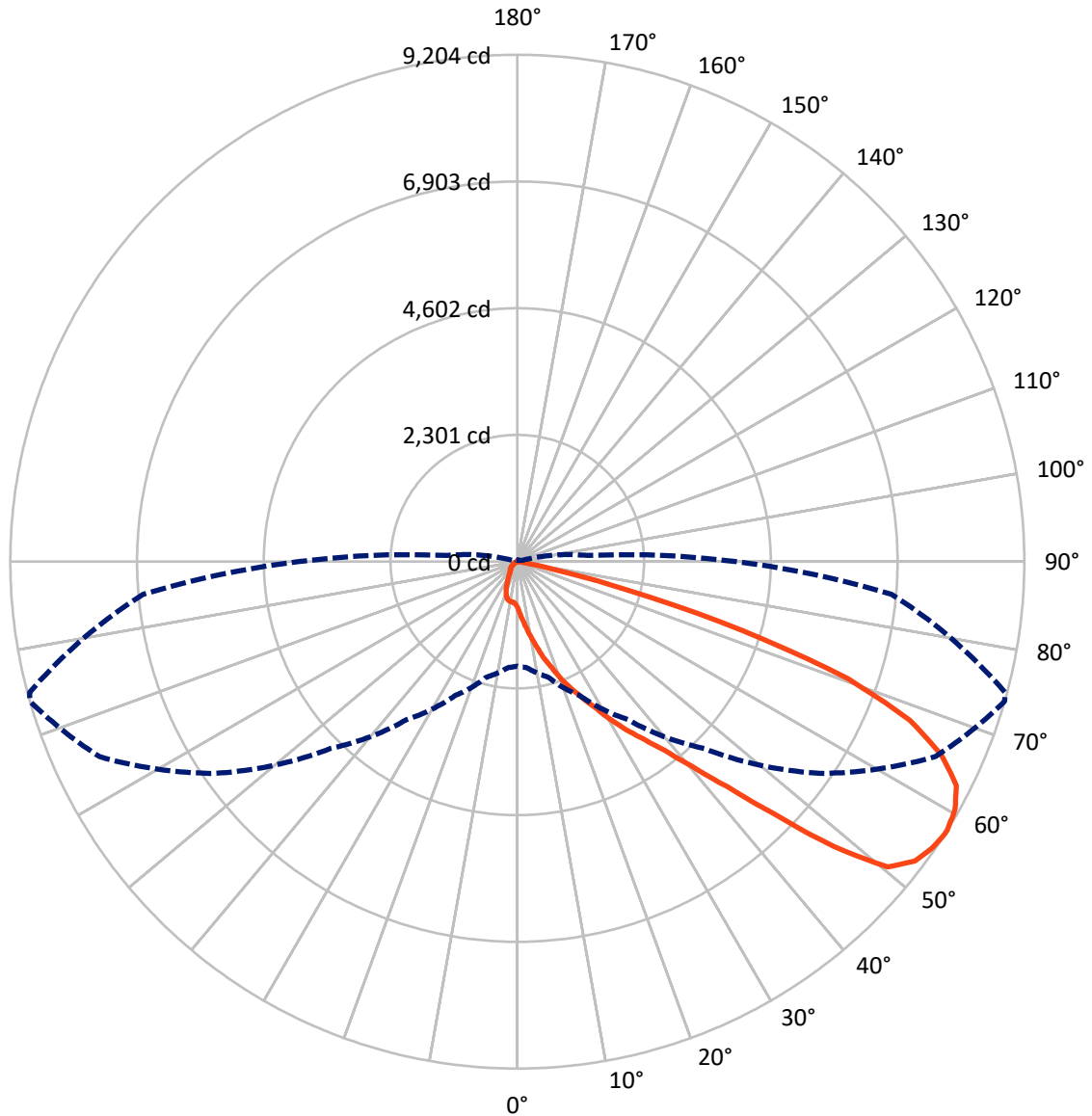
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 74-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	574.1	0.0	574.1
	% Fixture	5.8	0.0	5.8
Street Side	Lumens	9379.9	0.0	9379.9
	% Fixture	94.2	0.0	94.2
Total	Lumens	9954.0	0.0	9954.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.6	1.0
10°-20°	396.6	4.0
20°-30°	848.6	8.5
30°-40°	1559.8	15.7
40°-50°	2391.2	24.0
50°-60°	2529.6	25.4
60°-70°	1651.9	16.6
70°-80°	451.4	4.5
80°-90°	24.3	0.2
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°	9954.0	100.0
0°-180°	9954.0	100.0

Coefficient of Utilization



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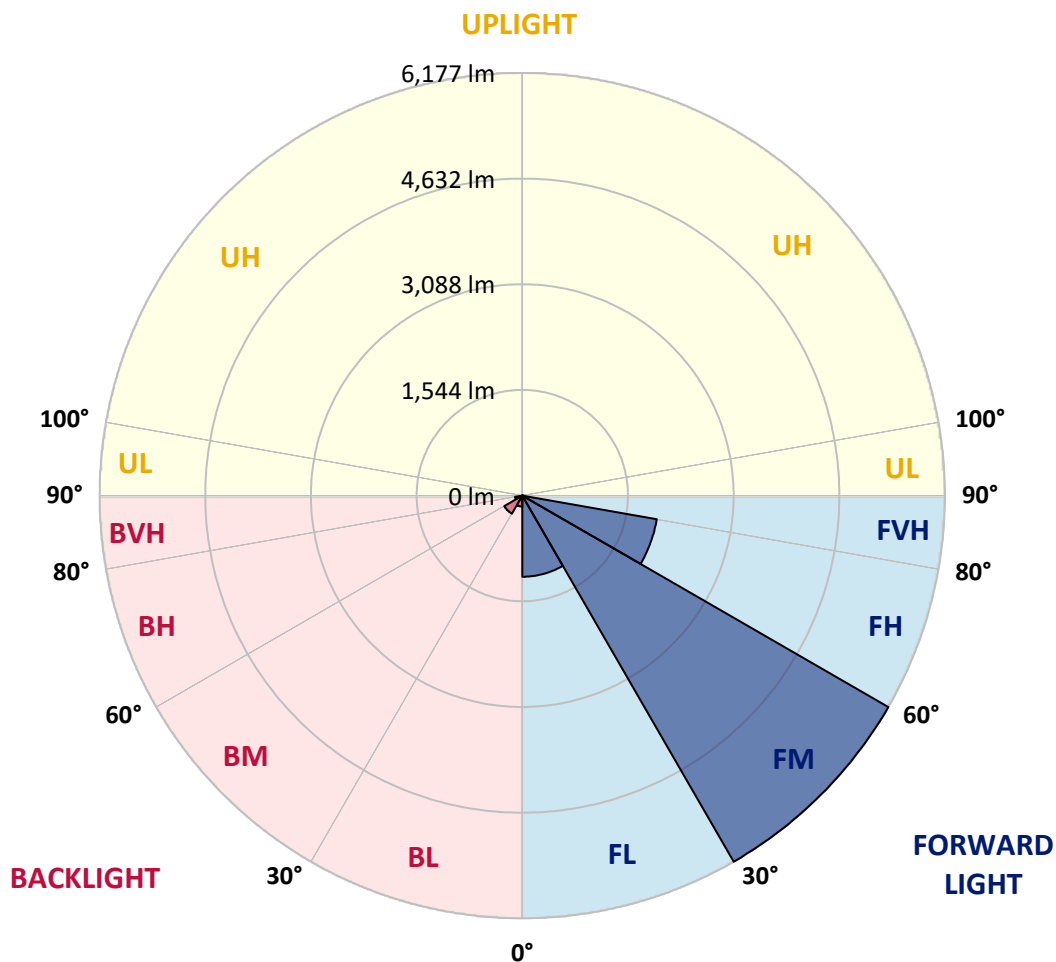
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1185.5	11.9			
FM	(30°-60°)	6176.6	62.1			
FH	(60°-80°)	1995.5	20.0			G2/5000
FVH	(80°-90°)	22.3	0.2			G1/100
BL	(0°-30°)	160.4	1.6	B1/500		
BM	(30°-60°)	304.0	3.1	B1/1000		
BH	(60°-80°)	107.8	1.1	B0/110		G0/110
BVH	(80°-90°)	2.0	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°	74°	75°	85°
0°	833.6	833.6	833.6	833.6	833.6	833.6	833.6	833.6	833.6	833.6	833.6
2.5°	1219.9	1208.9	1186.9	1179.3	1147.0	1096.9	1052.9	993.8	947.0	942.2	885.9
5°	1633.6	1608.9	1598.5	1549.1	1471.4	1398.6	1273.5	1178.6	1069.4	1061.1	947.7
7.5°	2032.2	1997.8	1987.5	1940.8	1850.1	1735.3	1573.1	1400.6	1227.4	1211.6	1030.9
10°	2320.8	2325.7	2307.1	2276.2	2202.6	2085.8	1885.8	1650.1	1403.4	1383.4	1124.3
12.5°	2527.7	2527.0	2530.5	2529.8	2490.6	2401.9	2191.6	1920.2	1597.2	1558.0	1231.6
15°	2662.4	2664.5	2674.8	2710.5	2714.6	2659.7	2484.4	2178.6	1821.9	1773.1	1347.7
17.5°	2798.5	2812.9	2829.4	2863.1	2893.3	2871.3	2747.6	2448.0	2025.3	1988.9	1472.1
20°	3023.2	3043.1	3033.5	3054.1	3069.9	3072.0	2976.5	2696.8	2272.0	2210.9	1614.4
22.5°	3382.6	3382.0	3357.2	3320.1	3289.2	3287.8	3201.2	2952.4	2496.1	2437.0	1757.3
25°	3836.9	3839.0	3790.9	3685.0	3608.1	3513.9	3414.3	3176.5	2735.9	2663.1	1907.8
27.5°	4357.9	4344.8	4271.9	4126.3	3973.7	3812.9	3669.2	3436.9	2990.2	2929.7	2080.3
30°	4825.9	4821.1	4735.8	4557.8	4357.2	4195.7	3987.4	3763.4	3319.4	3245.2	2273.4
32.5°	5261.6	5268.5	5150.3	4966.1	4772.3	4586.0	4366.1	4075.4	3642.4	3537.3	2483.7
35°	5601.8	5608.6	5486.3	5333.1	5133.8	4979.1	4769.5	4408.0	3961.3	3872.7	2725.6
37.5°	5783.2	5792.1	5721.4	5605.9	5481.5	5403.8	5208.7	4836.2	4348.9	4295.3	3011.5
40°	5817.6	5827.9	5797.0	5766.0	5759.2	5814.8	5757.8	5340.6	4886.3	4802.5	3437.6
42.5°	5714.5	5728.2	5742.0	5810.7	5950.9	6155.0	6353.6	6025.1	5578.4	5465.7	3958.6
45°	5443.7	5442.3	5496.6	5674.6	5988.7	6424.4	6976.3	6882.1	6521.3	6387.3	4694.6
47.5°	4980.5	4973.6	5091.1	5344.7	5834.1	6473.9	7484.2	7922.6	7724.7	7601.0	5485.6
50°	4274.7	4308.4	4493.2	4847.2	5449.9	6324.1	7640.8	8605.1	8712.3	8581.0	6124.8
52.5°	3447.9	3446.6	3736.6	4217.0	4880.9	5994.2	7531.6	8728.8	9033.2	8932.9	6439.5
55°	2551.8	2569.6	2871.3	3355.8	4142.1	5392.2	7174.9	8601.6	9155.5	9084.8	6647.1
57°	1898.2	1929.8	2171.7	2684.4	3498.8	4796.3	6700.0	8374.1	9203.7	9165.2	6819.6
57.5°	1771.7	1773.1	2008.8	2474.8	3310.5	4567.5	6563.9	8279.3	9202.3	9181.0	6847.8
60°	1090.7	1125.0	1287.9	1672.8	2423.2	3564.8	5651.9	7734.3	9130.8	9161.7	6968.0
62.5°	652.9	667.3	773.2	1008.2	1562.1	2601.9	4625.2	7036.8	8944.6	9038.7	6959.8
65°	419.9	423.3	471.5	610.3	976.6	1758.7	3564.1	6115.2	8462.8	8636.0	6687.6
67.5°	324.4	329.9	349.1	400.7	566.3	1095.5	2520.8	5131.7	7683.5	7906.8	6027.9
70°	288.0	290.7	297.6	314.1	374.6	618.5	1568.3	4008.7	6371.5	6434.7	4717.3
72.5°	235.0	242.6	263.9	269.4	296.9	386.2	872.8	2690.6	4280.9	4296.7	2639.0
75°	182.1	183.5	215.1	230.9	250.2	266.0	389.7	1356.6	2056.3	1946.3	1017.1
77.5°	136.1	142.3	156.7	176.6	204.1	190.4	174.6	511.3	638.5	626.8	295.5
80°	87.3	90.7	109.3	132.6	158.8	124.4	98.3	149.8	140.2	144.3	70.8
82.5°	44.0	44.7	70.1	107.9	101.0	62.5	61.9	61.2	52.2	51.5	33.0
85°	4.8	10.3	45.4	61.9	45.4	20.6	28.9	28.2	27.5	28.2	19.2
87.5°	0.7	0.7	7.6	8.9	6.2	6.9	8.2	8.9	11.0	10.3	8.2
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°	833.6	833.6	833.6	833.6	833.6	833.6	833.6	833.6	833.6	833.6	833.6
2.5°	858.4	830.9	780.0	731.2	694.8	671.4	641.2	630.2	614.4	612.3	604.8
5°	895.5	843.3	754.6	684.5	628.1	585.5	548.4	517.5	492.8	487.3	490.0
7.5°	948.4	870.7	747.0	651.5	573.2	500.3	441.2	404.8	378.7	369.1	370.4
10°	1008.2	907.2	745.7	616.5	496.9	407.5	342.9	310.6	295.5	290.0	283.8
12.5°	1079.0	949.1	742.2	562.2	413.0	325.1	279.0	259.8	245.3	241.2	241.2
15°	1158.7	993.8	725.7	494.8	335.4	268.7	237.8	222.7	217.9	213.7	213.7
17.5°	1241.9	1037.7	691.4	411.7	278.3	230.2	211.0	202.1	195.2	190.4	190.4
20°	1336.7	1081.0	636.4	338.1	235.0	205.5	190.4	180.1	174.6	170.4	169.1
22.5°	1426.7	1116.1	566.3	277.6	204.8	184.9	171.1	160.1	154.6	152.6	152.6
25°	1520.2	1137.4	481.8	229.5	186.9	167.7	152.6	143.6	138.8	137.5	136.8
27.5°	1610.9	1149.8	407.5	200.7	170.4	151.9	137.5	130.6	125.8	124.4	125.1
30°	1720.9	1151.8	335.4	180.1	156.0	136.8	123.7	117.5	114.8	113.4	112.7
32.5°	1832.2	1149.1	281.8	167.7	142.3	123.7	112.7	107.9	105.8	103.8	103.8
35°	1957.3	1134.7	239.9	155.3	129.2	112.7	103.1	99.0	96.2	94.2	93.5
37.5°	2112.6	1127.1	215.8	141.6	117.5	102.4	93.5	89.3	87.3	84.5	83.8
40°	2357.3	1160.8	208.2	129.2	105.8	92.8	84.5	79.7	77.0	74.2	73.5
42.5°	2662.4	1219.9	195.9	116.8	95.5	83.8	75.6	70.1	65.3	61.9	60.5
45°	3057.6	1297.5	176.6	103.8	86.6	74.2	66.7	59.8	53.6	50.9	50.2
47.5°	3472.0	1372.4	159.4	93.5	77.0	66.0	57.7	50.2	44.7	42.6	41.9
50°	3726.3	1387.6	148.4	81.8	67.4	57.0	48.8	41.9	38.5	36.4	36.4
52.5°	3842.4	1363.5	133.3	71.5	58.4	50.2	41.9	36.4	34.4	33.0	32.3
55°	3923.5	1326.4	113.4	61.9	50.2	42.6	37.1	33.0	30.2	28.9	28.2
57°	3970.9	1276.2	98.3	54.3	43.3	37.1	33.0	29.6	26.8	24.1	24.1
57.5°	3973.0	1257.0	94.2	53.6	41.2	35.7	32.3	28.9	25.4	22.7	22.0
60°	3911.8	1125.0	75.6	45.4	33.0	30.2	26.8	22.7	17.9	15.1	14.4
62.5°	3715.3	957.3	62.5	38.5	26.8	23.4	19.2	17.2	12.4	8.9	8.9
65°	3417.7	776.6	53.6	30.9	22.0	17.2	13.1	12.4	7.6	4.1	3.4
67.5°	2987.5	604.8	45.4	25.4	18.6	12.4	8.9	8.2	4.1	1.4	0.0
70°	2276.2	412.4	37.8	20.6	13.7	8.9	6.2	4.8	2.7	0.7	0.0
72.5°	1312.0	226.8	31.6	15.8	10.3	6.9	4.8	2.7	2.7	0.0	0.0
75°	468.7	97.6	24.1	11.7	8.2	5.5	3.4	1.4	2.1	0.7	0.0
77.5°	149.1	52.2	15.8	8.9	6.9	4.1	2.7	1.4	1.4	0.7	0.0
80°	44.0	27.5	9.6	7.6	4.8	3.4	2.1	0.7	1.4	0.7	0.0
82.5°	24.1	13.7	7.6	5.5	4.8	2.7	2.1	0.7	0.7	0.7	0.0
85°	12.4	8.2	6.2	5.5	4.8	2.7	2.1	0.7	0.0	0.7	0.7
87.5°	6.9	6.2	6.2	5.5	4.8	3.4	2.1	0.7	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)