

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: P458088

Luminaire Tested: **GALN-SA9C-727-U-SL4-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458088
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-19)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9C-727-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 43845 lumens
Efficiency: N/A
Efficacy: 91.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

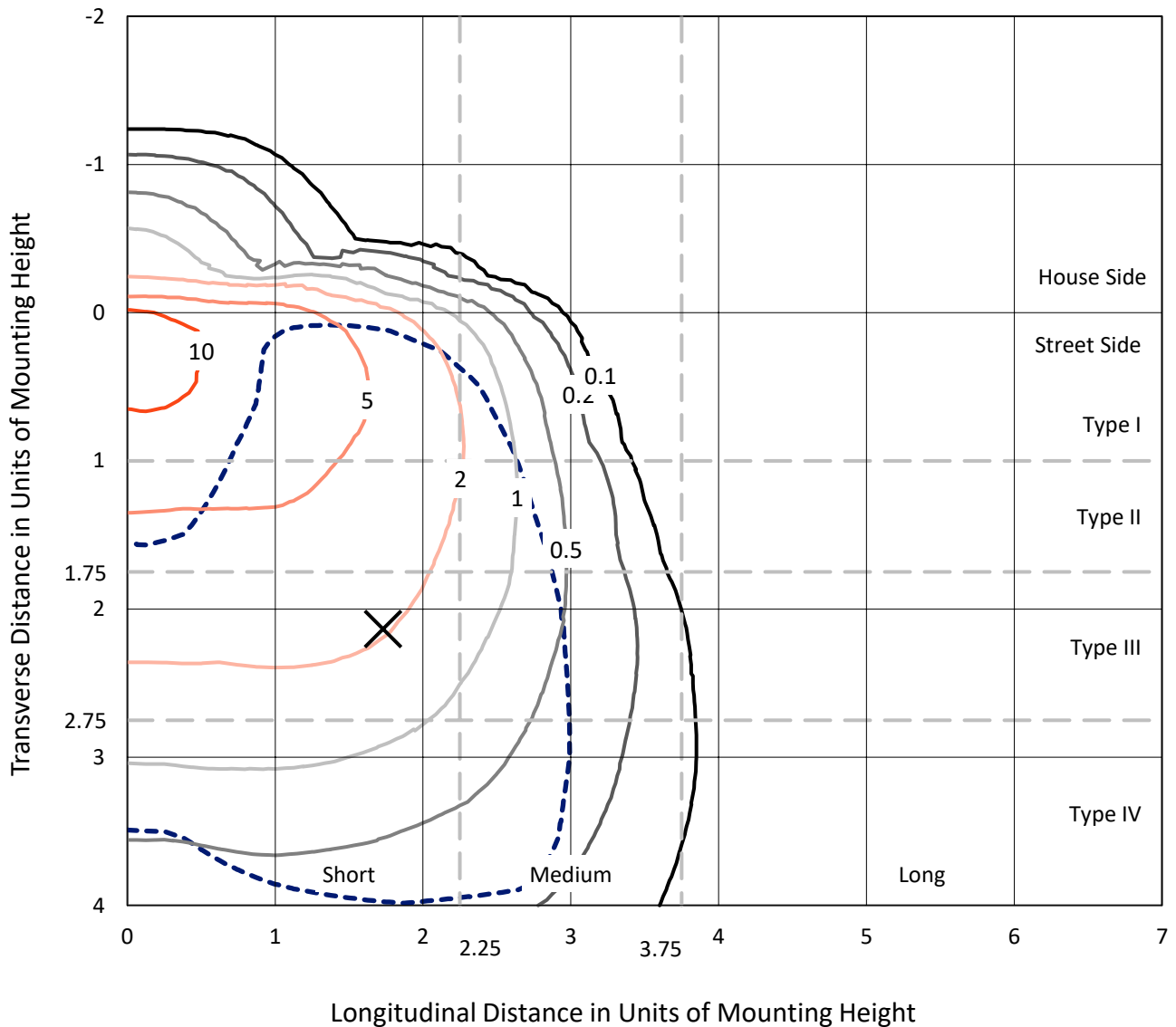
Input Watts (W): 481
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

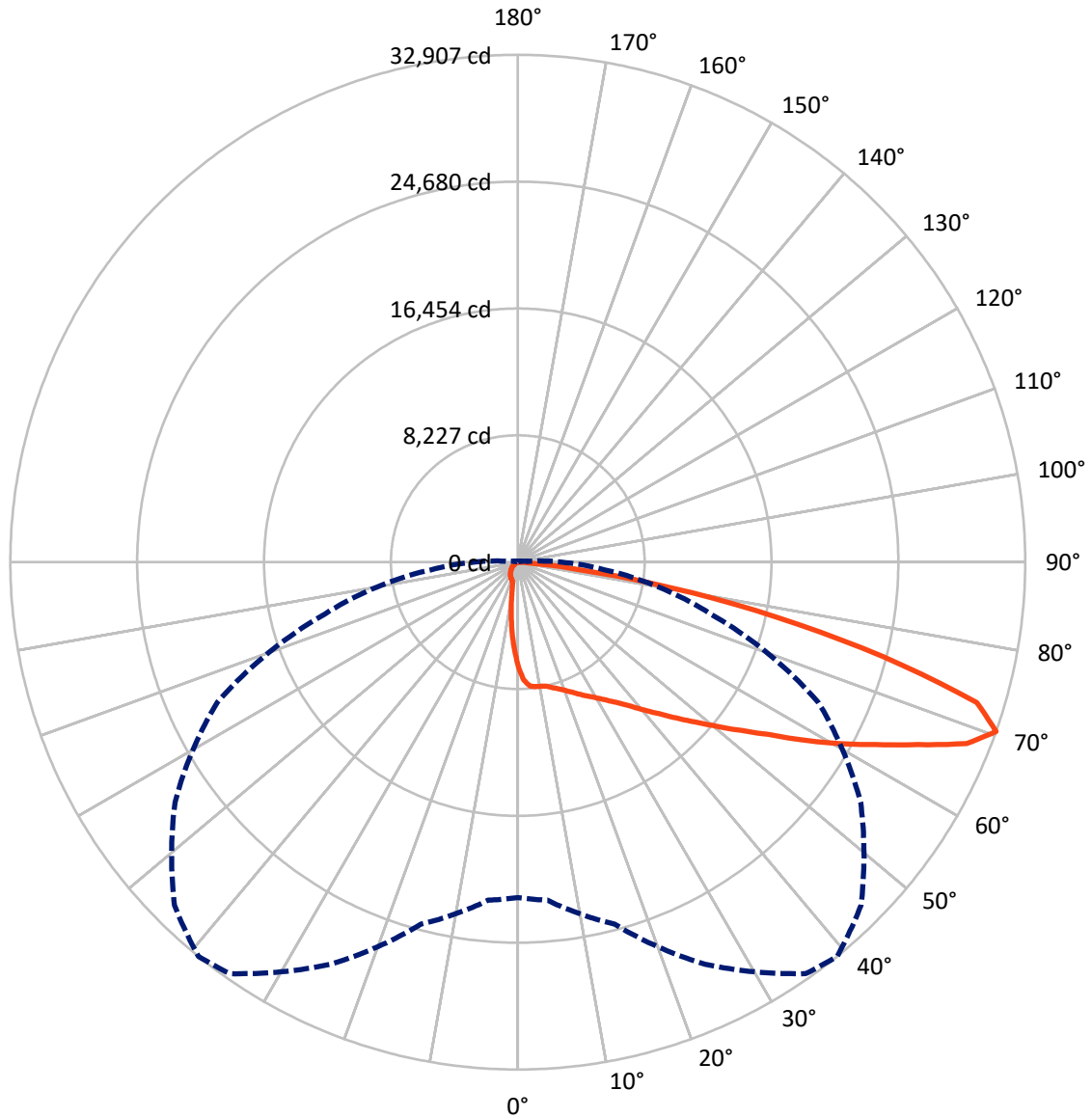
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2858.9	0.0	2858.9
	% Fixture	6.5	0.0	6.5
Street Side	Lumens	40986.1	0.0	40986.1
	% Fixture	93.5	0.0	93.5
Total	Lumens	43845.0	0.0	43845.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	583.5	1.3
10°-20°	1516.4	3.5
20°-30°	2540.4	5.8
30°-40°	3939.8	9.0
40°-50°	6243.4	14.2
50°-60°	9151.9	20.9
60°-70°	11730.6	26.8
70°-80°	7371.1	16.8
80°-90°	767.9	1.8
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°	43845.0	100.0
0°-180°	43845.0	100.0

Coefficient of Utilization



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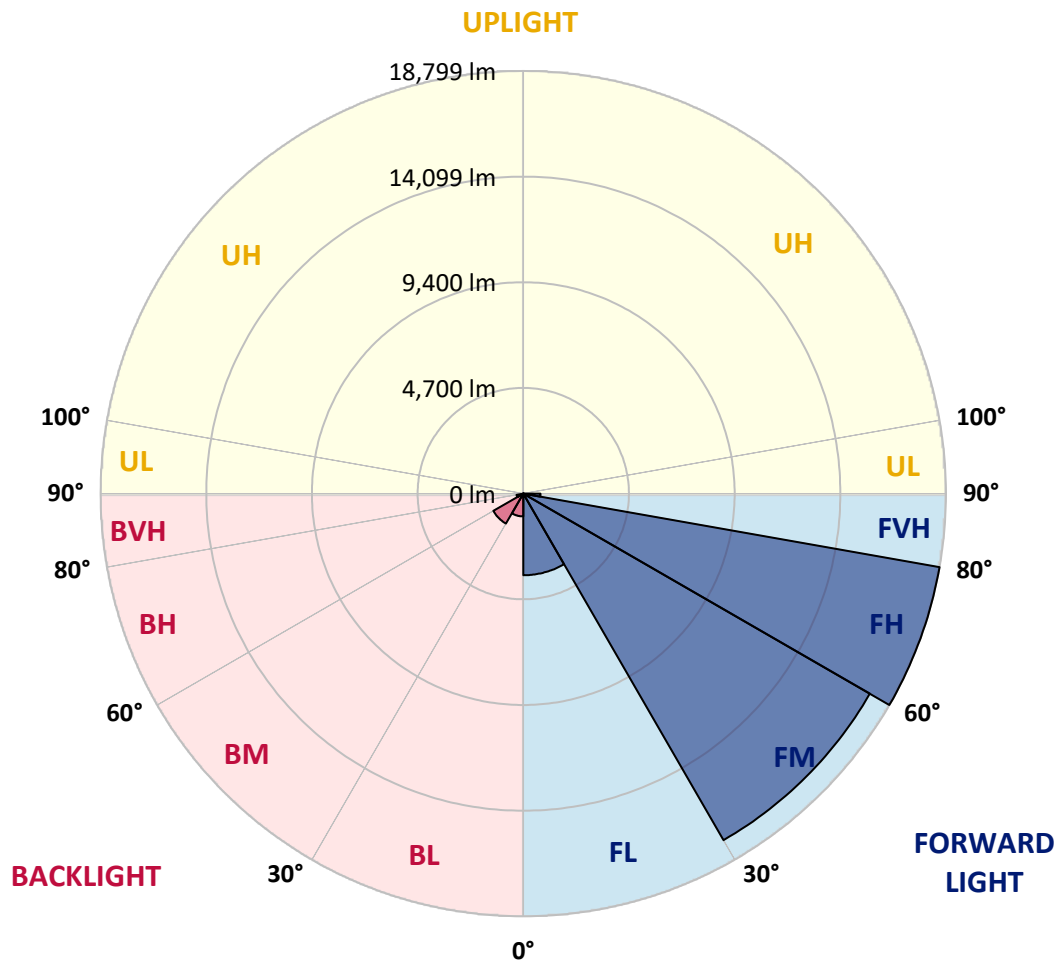
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3628.0	8.3			
FM (30°-60°)	17796.6	40.6			
FH (60°-80°)	18799.3	42.9			G5
FVH (80°-90°)	762.3	1.7			G5
BL (0°-30°)	1012.3	2.3	B3/2500		
BM (30°-60°)	1538.6	3.5	B2/2500		
BH (60°-80°)	302.3	0.7	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: B3-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	6841.3	6841.3	6841.3	6841.3	6841.3	6841.3	6841.3	6841.3	6841.3	6841.3	6841.3
2.5°	7904.9	7878.4	7843.1	7801.8	7684.0	7663.3	7592.6	7442.4	7262.6	7115.3	6912.0
5°	8279.1	8293.9	8267.3	8193.7	8108.2	8058.1	7969.8	7737.0	7504.2	7206.7	6873.7
7.5°	8364.6	8394.0	8361.6	8290.9	8208.4	8155.4	8084.7	7884.3	7613.3	7274.4	6817.8
10°	8355.7	8391.1	8370.5	8305.6	8237.9	8187.8	8111.2	7952.1	7734.1	7377.6	6835.4
12.5°	8341.0	8388.1	8385.2	8352.8	8296.8	8258.5	8211.4	8069.9	7866.6	7527.8	6932.7
15°	8299.7	8358.7	8411.7	8438.2	8441.2	8441.2	8382.2	8232.0	8037.5	7725.2	7059.4
17.5°	8317.4	8385.2	8517.8	8594.4	8647.4	8641.5	8579.6	8417.6	8202.5	7928.5	7191.9
20°	8426.4	8517.8	8703.4	8856.6	8909.6	8892.0	8809.5	8620.9	8376.3	8102.3	7321.6
22.5°	8694.6	8777.0	9009.8	9189.5	9227.8	9180.7	9062.8	8806.5	8585.5	8290.9	7477.7
25°	9095.2	9192.5	9407.6	9543.1	9543.1	9516.6	9351.6	9051.1	8821.2	8553.1	7681.0
27.5°	9581.4	9663.9	9876.0	9996.8	9926.1	9849.5	9684.5	9322.1	9101.1	8883.1	7925.6
30°	10073.4	10126.5	10350.4	10403.4	10329.8	10232.5	10055.7	9693.3	9498.9	9331.0	8279.1
32.5°	10538.9	10653.8	10839.5	10827.7	10727.5	10680.4	10518.3	10132.3	10023.3	10005.7	8774.1
35°	11004.5	11092.8	11257.8	11299.1	11210.7	11201.9	11084.0	10798.2	10801.2	10916.1	9546.0
37.5°	11405.2	11484.7	11679.2	11770.5	11788.2	11832.4	11785.2	11596.7	11864.8	12180.0	10568.4
40°	11741.0	11853.0	12100.5	12259.6	12442.3	12604.3	12613.1	12654.4	13193.6	13735.7	11903.1
42.5°	12003.3	12159.4	12518.9	12813.5	13231.9	13438.1	13603.1	13830.0	14737.4	15547.7	13476.4
45°	12345.0	12524.7	12972.6	13435.2	14089.2	14428.1	14657.9	15264.8	16552.4	17657.2	15091.0
47.5°	12910.7	13005.0	13461.7	14136.4	14996.7	15479.9	15927.7	16847.0	18499.9	19489.8	16434.5
50°	13638.5	13700.3	14045.0	14982.0	16095.7	16732.1	17548.2	18629.5	20521.0	21010.1	17194.6
52.5°	14442.8	14463.4	14722.7	15913.0	17327.2	18128.6	19042.0	20376.7	22168.0	22094.4	17698.5
55°	15376.8	15347.3	15568.3	16923.6	18785.7	19702.0	20765.6	22165.1	23597.0	22863.3	17987.2
57.5°	16446.3	16366.7	16581.8	18264.2	20653.6	21749.6	22830.9	23708.9	24704.8	23508.6	18125.7
60°	17565.9	17406.8	17663.1	19769.7	22854.5	23894.5	24793.2	25028.9	25871.5	24021.2	17887.0
62.5°	18458.6	18461.6	18938.9	21372.5	25117.3	26027.7	26505.0	26717.1	26876.2	23909.3	16631.9
65°	19852.2	19899.4	20662.4	23597.0	27736.5	28526.1	28853.2	28163.7	26920.4	22518.6	14746.3
67.5°	21290.0	21440.3	22836.8	26661.1	30762.4	31398.8	30977.5	28443.6	25718.3	19345.4	11181.2
70°	21758.5	22006.0	24307.0	28770.7	32577.3	32907.3	31481.3	27138.4	21499.2	12934.3	5627.4
72.5°	19937.7	20338.4	23461.4	28001.7	31419.4	31133.6	28166.7	22760.2	13667.9	4911.5	1717.7
75°	14059.8	14236.6	19498.7	23228.7	25270.5	24460.2	21425.5	14672.6	5621.6	1378.9	589.3
77.5°	7259.7	7174.3	11596.7	15412.1	18022.6	17182.9	14030.3	7595.6	2130.2	574.5	365.3
80°	3753.6	3815.5	5017.6	8075.8	11001.5	10123.5	7480.7	3520.8	1134.3	318.2	279.9
82.5°	2103.7	1974.0	2884.4	3526.7	5144.3	4033.5	2869.7	2492.6	495.0	191.5	265.2
85°	383.0	400.7	1582.2	1906.3	1785.5	1134.3	925.1	1664.7	144.4	106.1	185.6
87.5°	5.9	5.9	306.4	548.0	347.7	159.1	291.7	238.7	29.5	41.2	32.4
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°	6841.3	6841.3	6841.3	6841.3	6841.3	6841.3	6841.3	6841.3	6841.3	6841.3	6841.3
2.5°	6808.9	6697.0	6487.8	6281.5	6019.3	5804.2	5659.9	5509.6	5356.4	5368.2	5403.5
5°	6691.1	6496.6	6084.1	5648.1	5229.7	4852.6	4481.3	4148.4	4012.9	3889.1	3895.0
7.5°	6573.2	6299.2	5695.2	5011.7	4378.2	3735.9	3270.4	2887.4	2684.1	2530.9	2486.7
10°	6520.2	6157.8	5338.7	4398.8	3500.2	2799.0	2200.9	1888.6	1647.0	1570.4	1591.0
12.5°	6543.7	6087.1	5017.6	3844.9	2775.4	1950.5	1532.1	1373.0	1319.9	1311.1	1305.2
15°	6587.9	6037.0	4702.3	3232.1	2038.8	1449.6	1287.5	1258.1	1252.2	1246.3	1249.2
17.5°	6646.9	5992.8	4366.4	2657.6	1564.5	1266.9	1219.8	1205.0	1202.1	1202.1	1202.1
20°	6705.8	5942.7	3992.2	2144.9	1305.2	1196.2	1166.7	1157.9	1155.0	1155.0	1152.0
22.5°	6773.6	5898.5	3612.2	1685.3	1202.1	1146.1	1119.6	1113.7	1110.8	1107.8	1107.8
25°	6870.8	5842.5	3208.5	1378.9	1137.3	1099.0	1072.5	1066.6	1063.6	1051.8	1054.8
27.5°	7000.4	5801.3	2793.1	1190.3	1078.3	1040.0	1022.4	1013.5	1007.6	998.8	1001.7
30°	7177.2	5765.9	2351.2	1087.2	1010.6	978.2	960.5	954.6	948.7	939.9	939.9
32.5°	7483.6	5780.7	1885.6	1004.7	948.7	910.4	892.7	886.8	880.9	872.1	872.1
35°	7943.2	5866.1	1508.5	934.0	875.1	836.8	819.1	819.1	810.2	798.4	795.5
37.5°	8694.6	6084.1	1210.9	866.2	804.3	769.0	748.4	742.5	733.6	716.0	713.0
40°	9581.4	6422.9	1019.4	798.4	739.5	704.2	686.5	668.8	645.2	627.6	624.6
42.5°	10695.1	6770.6	883.9	730.7	677.7	645.2	624.6	595.2	559.8	536.2	533.3
45°	11855.9	7088.8	792.6	668.8	618.7	592.2	568.6	521.5	477.3	447.8	444.9
47.5°	12722.2	7147.7	718.9	609.9	568.6	542.1	509.7	450.8	391.9	365.3	356.5
50°	13131.7	6861.9	642.3	551.0	518.5	489.1	447.8	380.1	315.3	282.8	277.0
52.5°	13276.1	6367.0	580.4	497.9	468.5	433.1	383.0	306.4	247.5	215.1	212.1
55°	13217.1	5742.4	524.4	447.8	409.5	368.3	318.2	244.5	182.7	156.2	150.3
57.5°	12907.8	4946.8	468.5	397.8	350.6	309.4	253.4	182.7	123.7	100.2	97.2
60°	12074.0	3862.6	412.5	341.8	297.6	253.4	200.3	129.6	76.6	56.0	56.0
62.5°	10665.6	2866.8	359.4	285.8	250.4	203.3	141.4	82.5	41.2	29.5	26.5
65°	8912.6	2115.4	300.5	241.6	209.2	159.1	100.2	50.1	20.6	8.8	5.9
67.5°	6219.7	1305.2	250.4	197.4	170.9	114.9	61.9	20.6	8.8	0.0	0.0
70°	2825.5	621.7	191.5	150.3	129.6	82.5	32.4	11.8	5.9	0.0	0.0
72.5°	878.0	327.0	135.5	109.0	88.4	53.0	17.7	8.8	5.9	0.0	0.0
75°	406.6	209.2	85.4	58.9	50.1	26.5	11.8	5.9	2.9	0.0	0.0
77.5°	303.5	162.0	50.1	32.4	26.5	17.7	8.8	5.9	2.9	0.0	0.0
80°	265.2	82.5	29.5	20.6	14.7	11.8	5.9	2.9	0.0	0.0	0.0
82.5°	238.7	41.2	17.7	11.8	8.8	5.9	2.9	2.9	0.0	0.0	0.0
85°	129.6	23.6	11.8	8.8	5.9	2.9	2.9	0.0	0.0	0.0	0.0
87.5°	23.6	11.8	8.8	5.9	5.9	2.9	2.9	2.9	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)