

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: P458231

Luminaire Tested: **GALN-SA9C-827-U-SL3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458231
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA9C-827-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38757 lumens
Efficiency: N/A
Efficacy: 80.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

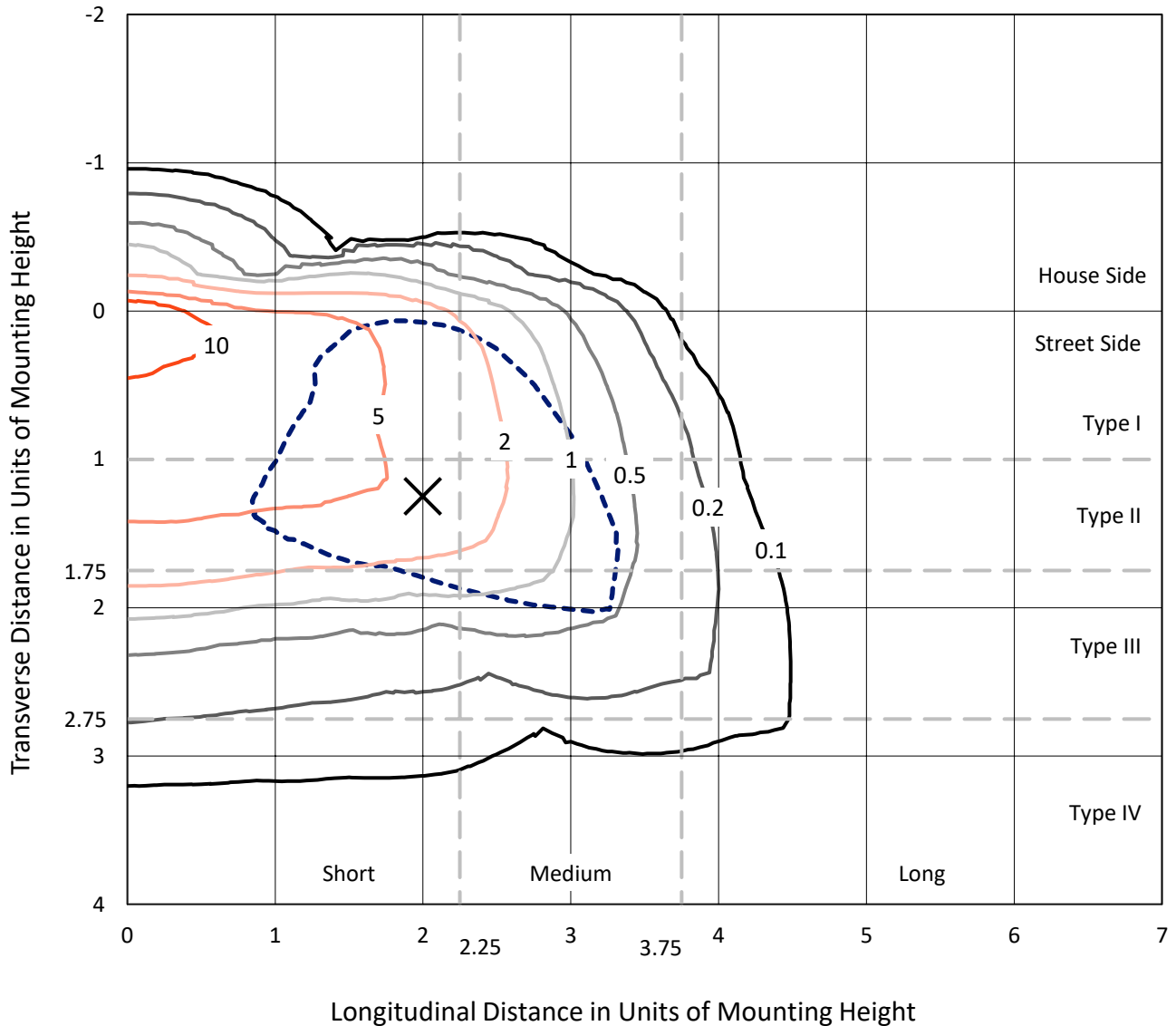
Input Watts (W): 481
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

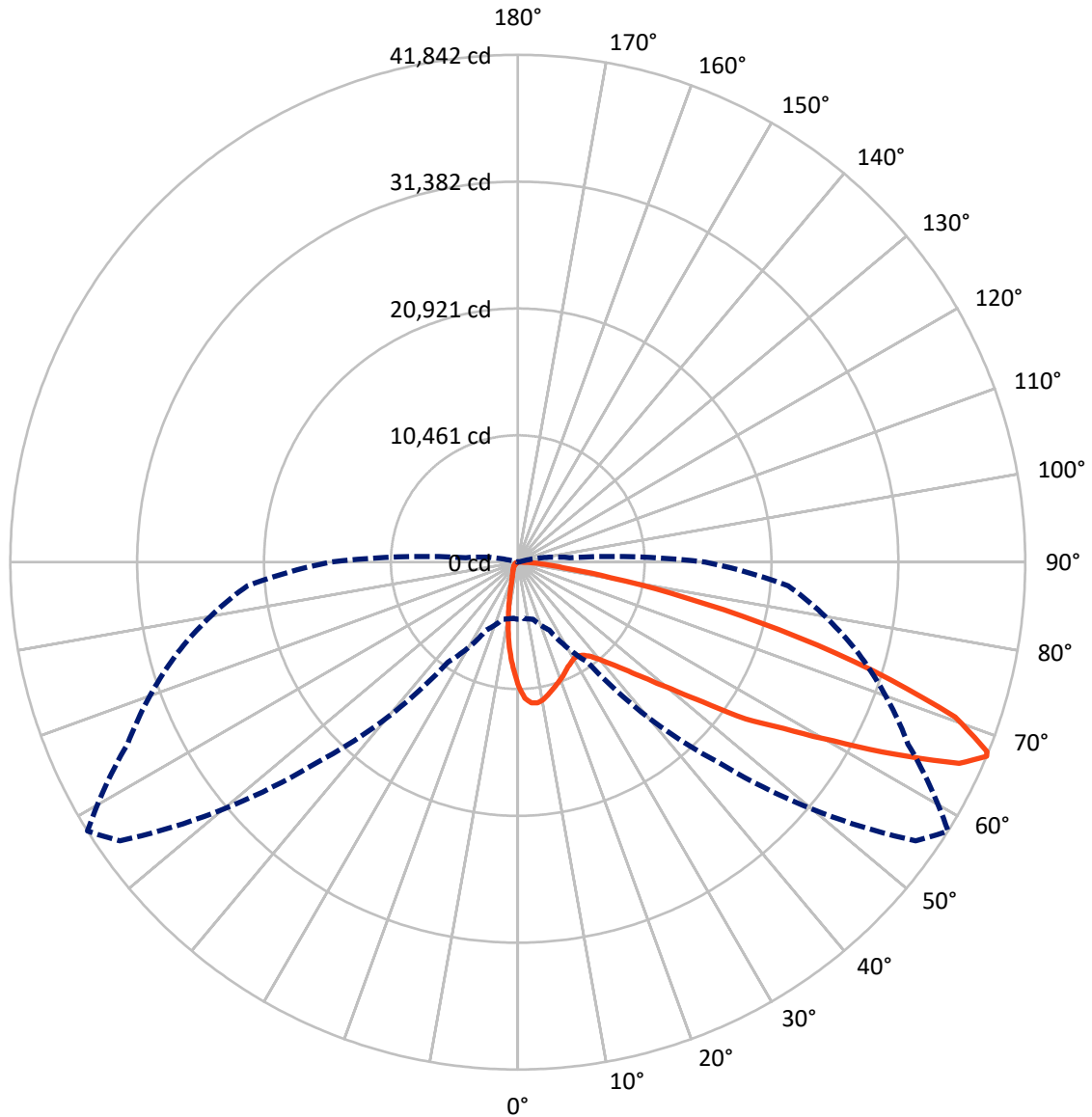
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2796.9	0.0	2796.9
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	35960.1	0.0	35960.1
	% Fixture	92.8	0.0	92.8
Total	Lumens	38757.0	0.0	38757.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	833.7	2.2
10°-20°	1800.6	4.6
20°-30°	2440.0	6.3
30°-40°	3384.1	8.7
40°-50°	5397.3	13.9
50°-60°	9329.7	24.1
60°-70°	10657.4	27.5
70°-80°	4443.1	11.5
80°-90°	471.1	1.2
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°	38757.0	100.0
0°-180°	38757.0	100.0

Coefficient of Utilization



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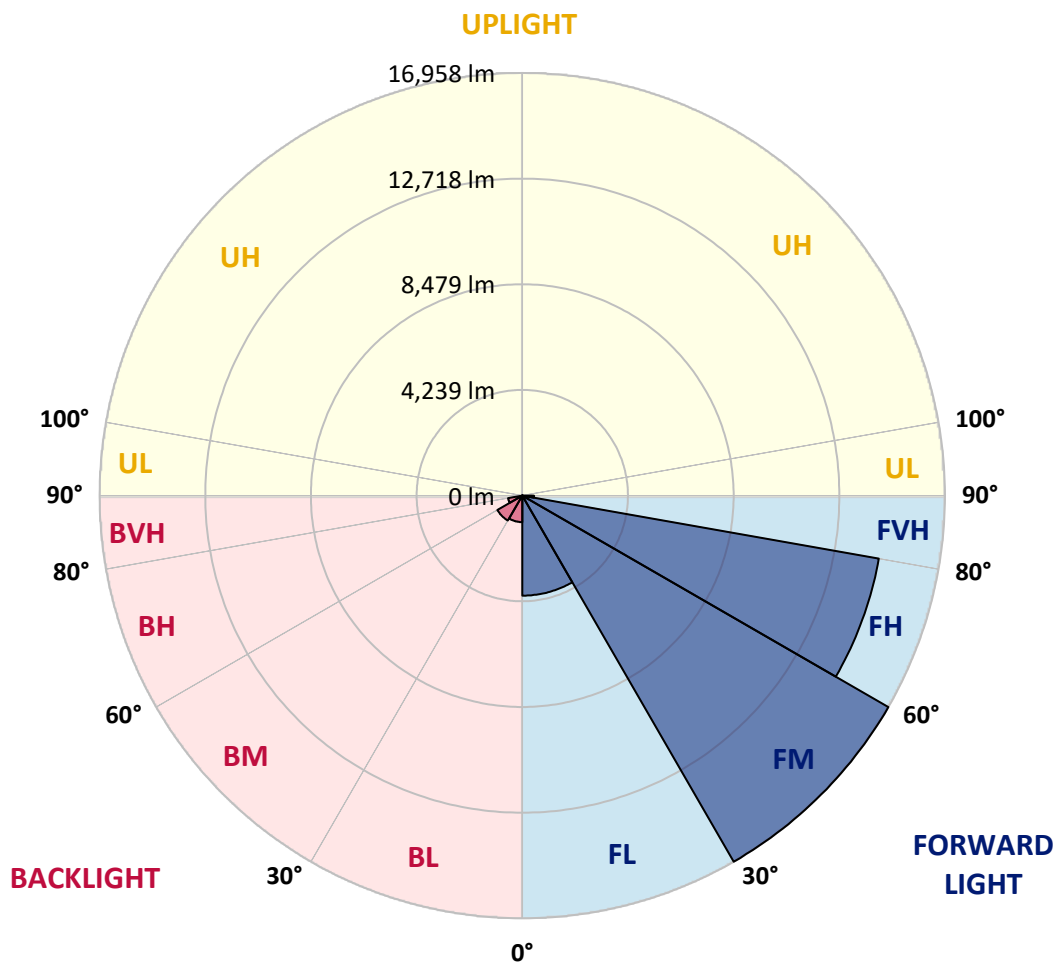
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4012.3	10.4			
FM	(30°-60°)	16957.8	43.8			
FH	(60°-80°)	14522.3	37.5			G5
FVH	(80°-90°)	467.7	1.2			G3/500
BL	(0°-30°)	1062.1	2.7	B3/2500		
BM	(30°-60°)	1153.2	3.0	B2/2500		
BH	(60°-80°)	578.2	1.5	B2/1000		G2/1000
BVH	(80°-90°)	3.4	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	10274.1	10274.1	10274.1	10274.1	10274.1	10274.1	10274.1	10274.1	10274.1	10274.1	10274.1
2.5°	11923.9	11942.0	11874.7	11820.3	11680.4	11530.2	11330.8	11224.6	11043.3	10729.9	10382.9
5°	12203.6	12226.9	12216.5	12203.6	12149.2	12004.2	11750.4	11657.1	11390.4	10880.2	10253.4
7.5°	11582.0	11667.5	11677.8	11778.9	11874.7	11887.6	11791.8	11721.9	11475.8	10877.6	10022.9
10°	10758.4	10815.4	10898.3	11014.8	11245.3	11437.0	11530.2	11519.9	11377.4	10797.3	9753.6
12.5°	9927.1	9958.2	10085.1	10284.5	10566.8	10893.1	11141.7	11190.9	11193.5	10701.5	9528.2
15°	9212.3	9199.3	9297.7	9528.2	9924.5	10333.7	10779.2	10856.9	10981.2	10608.2	9318.5
17.5°	8601.1	8668.4	8683.9	8937.7	9302.9	9833.8	10401.0	10538.3	10786.9	10527.9	9144.9
20°	8222.9	8259.2	8292.9	8435.3	8764.2	9323.6	10046.2	10235.3	10605.6	10455.4	8950.7
22.5°	8111.6	8134.9	8106.4	8150.4	8383.5	8880.8	9660.3	9911.5	10432.1	10388.1	8792.7
25°	8197.0	8220.3	8153.0	8101.2	8181.5	8520.8	9287.4	9593.0	10292.3	10375.1	8673.6
27.5°	8404.2	8448.2	8355.0	8261.8	8215.2	8326.5	8994.7	9349.5	10196.4	10437.3	8619.2
30°	8728.0	8753.9	8683.9	8570.0	8463.8	8352.4	8841.9	9181.2	10170.5	10582.3	8614.0
32.5°	9080.2	9134.6	9095.7	9020.6	8883.3	8619.2	8885.9	9186.4	10232.7	10792.1	8678.7
35°	9515.3	9577.4	9613.7	9598.2	9422.0	9093.1	9165.6	9419.5	10398.4	11178.0	8854.9
37.5°	9942.6	9997.0	10201.6	10271.5	10116.1	9805.4	9709.5	9877.9	10763.6	11683.0	9173.4
40°	10432.1	10504.6	10792.1	11058.9	10983.8	10657.4	10481.3	10621.2	11323.0	12444.5	9776.9
42.5°	10900.9	11030.4	11468.1	11939.4	12009.4	11644.2	11527.6	11574.3	12151.8	13540.0	10618.6
45°	11566.5	11688.2	12252.8	12892.5	13221.4	12936.5	12817.4	12809.6	13288.8	15081.0	11983.5
47.5°	12527.3	12636.1	13301.7	13933.7	14519.0	14557.8	14332.5	14410.2	14718.4	16883.5	13656.5
50°	13705.7	13962.1	14399.8	15057.7	15839.8	16471.8	16541.7	16438.1	16702.3	18971.0	15666.3
52.5°	15417.7	15516.1	15917.5	16458.8	17375.6	18447.8	19279.2	19136.8	19053.9	20960.0	17696.8
55°	16694.5	16826.6	17450.7	18194.0	19538.2	20952.3	22754.8	22804.1	21757.7	22871.4	19683.2
57.5°	16308.6	16510.6	17455.9	18950.3	21905.4	24490.1	25831.6	25865.3	24259.6	24728.3	21926.1
60°	14327.3	14423.1	15777.7	17771.9	22107.4	28323.1	30195.6	29923.7	26805.4	26805.4	23907.3
62.5°	10160.2	10310.4	11408.5	14342.9	19965.5	29654.3	35422.0	34860.0	30312.2	28791.9	25088.3
65°	6492.9	6347.8	7075.6	9054.3	14873.8	27688.6	39972.5	40006.2	33611.7	29587.0	24443.5
67°	4703.3	4646.3	4856.1	6189.9	10085.1	23275.4	40068.3	41842.4	35507.5	29084.6	22381.9
67.5°	4301.8	4345.8	4498.7	5583.8	9163.1	21180.2	39633.2	41733.6	35934.8	28781.5	21636.0
70°	3260.7	3185.6	3351.3	3949.6	5493.2	13361.3	34093.4	38276.1	35403.9	25774.7	17287.6
72.5°	2398.2	2390.5	2621.0	3229.6	4229.3	7117.0	25593.4	30690.3	28924.0	19626.2	10885.3
75°	1618.7	1691.2	2059.0	2698.7	3833.0	4615.2	17448.1	22265.4	20079.5	11144.3	4449.4
77.5°	922.0	927.2	1326.0	2167.7	3442.0	3713.9	10338.9	14184.9	10628.9	3706.1	1320.8
80°	398.8	437.7	657.8	1574.7	2854.1	3289.2	5928.3	7795.6	4299.2	784.7	427.3
82.5°	147.6	173.5	290.1	968.6	2082.3	2709.0	3581.8	3721.7	1458.1	277.1	266.8
85°	0.0	5.2	106.2	453.2	1085.2	1209.5	2393.1	2206.6	644.9	132.1	173.5
87.5°	0.0	0.0	0.0	46.6	142.4	450.6	743.3	828.8	155.4	46.6	41.4
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°	10274.1	10274.1	10274.1	10274.1	10274.1	10274.1	10274.1	10274.1	10274.1	10274.1	10274.1
2.5°	10196.4	10028.1	9605.9	9183.8	8870.4	8608.8	8215.2	8000.2	7886.2	7717.9	7728.3
5°	9940.0	9598.2	8854.9	8085.7	7464.1	6858.0	6132.9	5840.2	5594.2	5454.3	5361.1
7.5°	9559.3	9054.3	7953.6	6928.0	5972.3	4913.0	4117.9	3587.0	3229.6	3097.5	2970.6
10°	9142.3	8471.6	7039.3	5617.5	4291.5	3198.5	2525.2	2038.2	1864.7	1704.2	1719.7
12.5°	8756.4	7940.6	6200.2	4433.9	3006.9	2033.1	1585.0	1385.6	1328.6	1310.5	1310.5
15°	8440.5	7433.0	5298.9	3333.2	2061.6	1460.7	1269.0	1214.7	1193.9	1188.8	1188.8
17.5°	8103.8	6951.3	4485.7	2463.0	1499.6	1222.4	1157.7	1121.4	1113.7	1108.5	1108.5
20°	7803.4	6467.0	3713.9	1833.6	1212.1	1100.7	1059.3	1036.0	1028.2	1023.0	1025.6
22.5°	7518.5	6037.1	2988.7	1385.6	1067.0	1002.3	960.9	937.5	922.0	909.1	911.6
25°	7264.7	5622.7	2403.4	1134.4	960.9	903.9	862.4	828.8	795.1	779.6	777.0
27.5°	7086.0	5260.1	1872.5	971.2	865.0	802.9	751.1	709.6	665.6	642.3	637.1
30°	6938.3	4892.3	1481.4	857.3	769.2	709.6	644.9	585.3	538.7	515.4	505.0
32.5°	6842.5	4542.7	1168.0	764.0	688.9	616.4	543.9	484.3	432.5	409.2	404.0
35°	6827.0	4250.0	955.7	686.3	616.4	538.7	463.6	398.8	354.8	331.5	326.3
37.5°	6938.3	4024.7	800.3	624.2	556.8	471.4	388.5	328.9	290.1	271.9	269.3
40°	7236.2	3882.3	694.1	572.4	502.4	409.2	331.5	279.7	240.9	222.7	222.7
42.5°	7803.4	3887.4	624.2	523.2	448.1	349.6	282.3	233.1	199.4	183.9	178.7
45°	8689.1	4063.5	564.6	474.0	396.3	303.0	240.9	191.7	158.0	145.0	145.0
47.5°	9875.3	4413.2	512.8	424.7	349.6	259.0	204.6	155.4	126.9	114.0	114.0
50°	11426.6	4975.2	468.8	383.3	310.8	222.7	165.8	126.9	98.4	88.1	85.5
52.5°	13047.9	5669.3	417.0	347.0	266.8	189.1	134.7	98.4	75.1	67.3	64.7
55°	14837.5	6347.8	367.8	310.8	217.6	158.0	106.2	77.7	54.4	46.6	46.6
57.5°	16642.7	7013.4	308.2	259.0	170.9	116.5	82.9	57.0	36.3	28.5	28.5
60°	18170.7	7228.4	261.6	209.8	129.5	82.9	59.6	36.3	20.7	12.9	12.9
62.5°	18380.5	6503.2	220.1	160.6	93.2	57.0	31.1	20.7	7.8	5.2	5.2
65°	17241.0	5283.4	183.9	121.7	62.2	28.5	12.9	7.8	2.6	0.0	0.0
67°	15448.7	4283.7	150.2	90.6	44.0	18.1	7.8	2.6	0.0	0.0	0.0
67.5°	14990.3	4084.3	145.0	85.5	38.8	15.5	5.2	2.6	0.0	0.0	0.0
70°	11763.3	3058.7	103.6	51.8	23.3	10.4	0.0	0.0	0.0	0.0	0.0
72.5°	7311.3	1730.1	75.1	31.1	15.5	5.2	0.0	0.0	0.0	0.0	0.0
75°	2763.4	606.0	51.8	20.7	10.4	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	859.8	230.5	31.1	15.5	5.2	0.0	0.0	0.0	0.0	0.0	0.0
80°	290.1	88.1	20.7	5.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	178.7	36.3	12.9	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	111.4	15.5	5.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	20.7	5.2	2.6	0.0	0.0	0.0	0.0	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)