

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: P457854

Luminaire Tested: **GALN-SA9B-727-U-SL3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457854
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-SA9B-727-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 800mA 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: 35687 lumens
Efficiency: N/A
Efficacy: 98.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G5

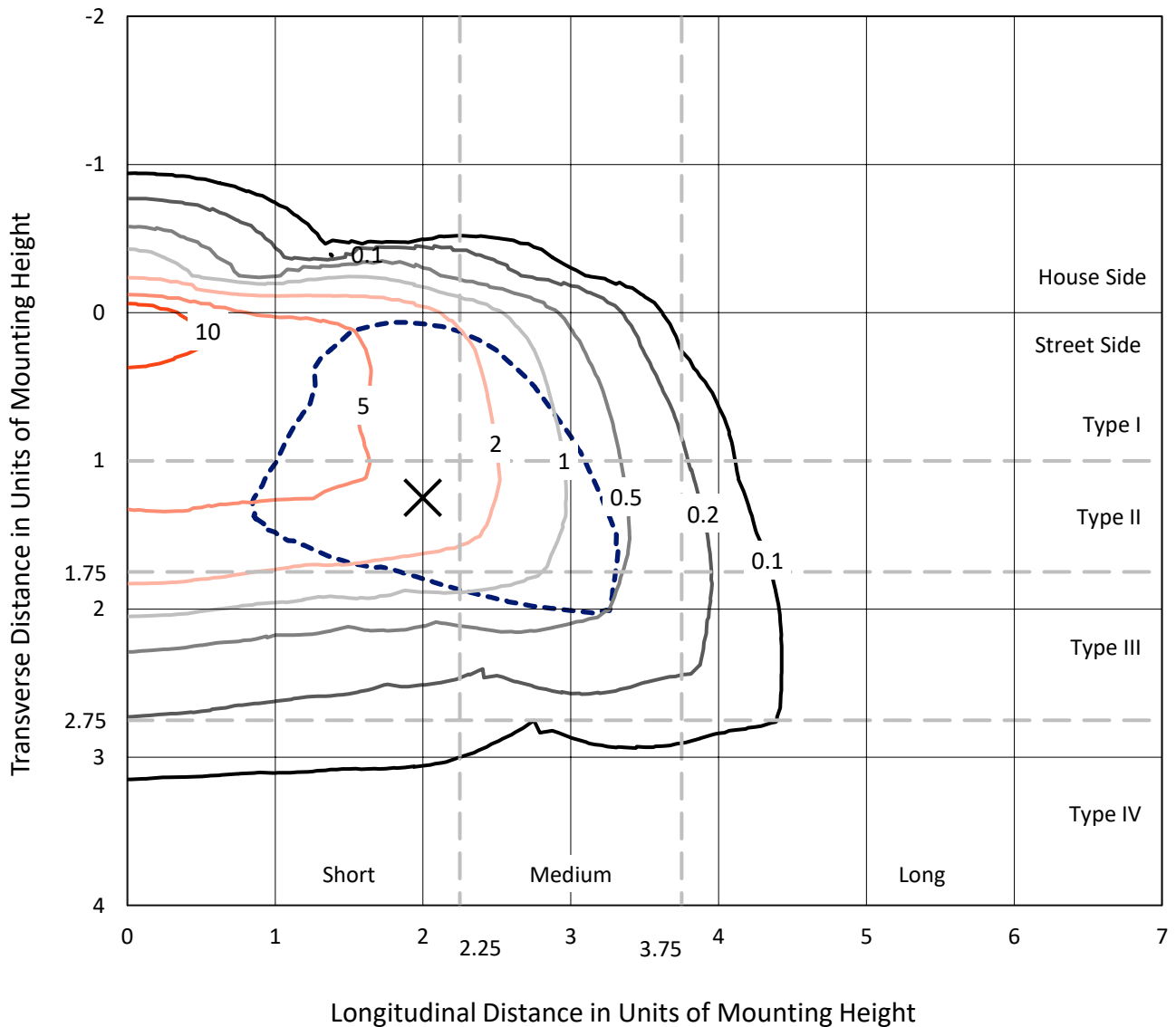
Input Watts (W): 364
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P457854
 CATALOG NUMBER: GALN-SA9B-727-U-SL3-HSS

Iso-Footcandle Lines of Horizontal Illumination

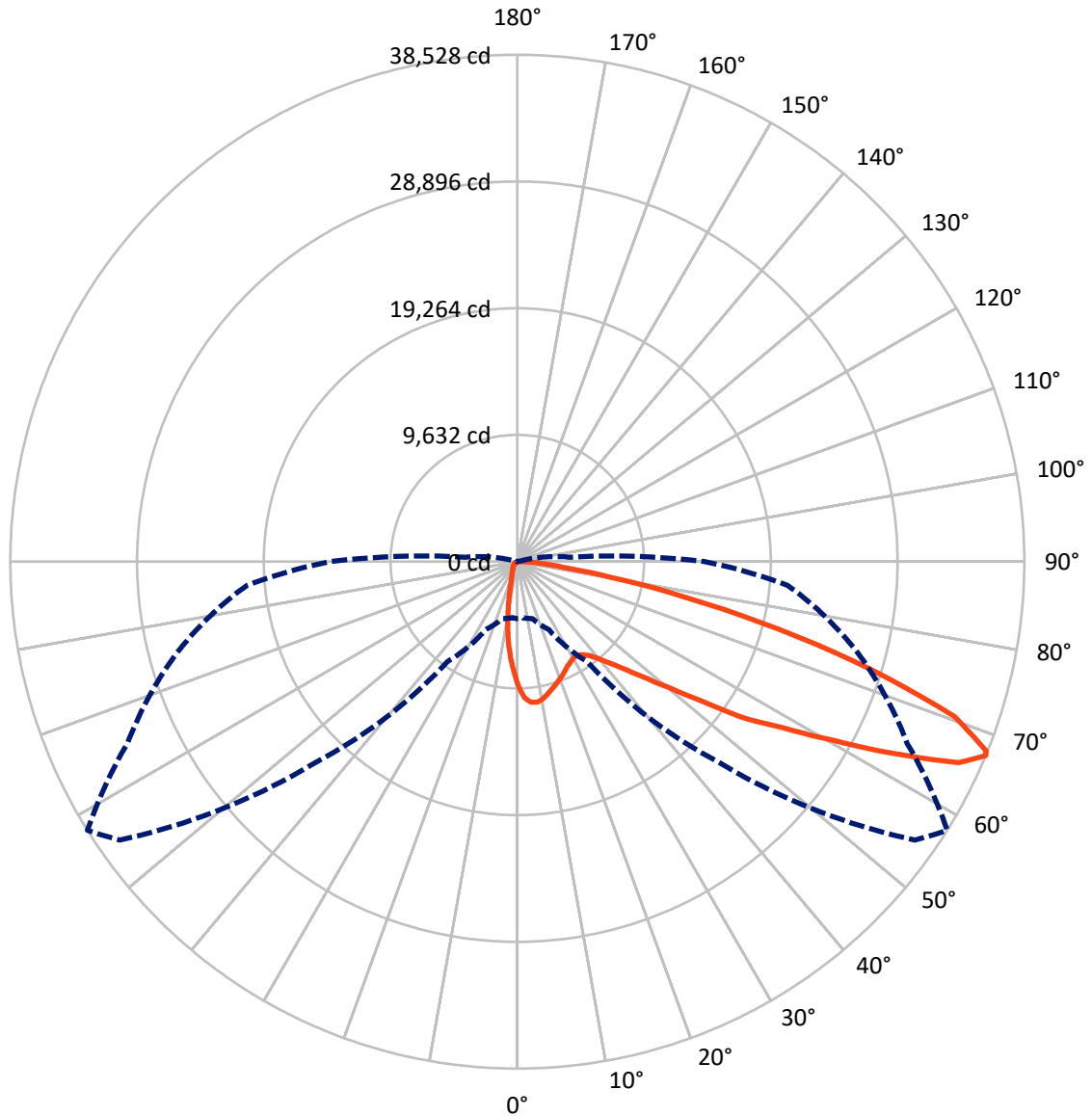
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.8 fc
 Type III - Short - N/A

REPORT NUMBER: P457854
CATALOG NUMBER: GALN-SA9B-727-U-SL3-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P457854

CATALOG NUMBER: GALN-SA9B-727-U-SL3-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2575.4	0.0	2575.4
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	33111.6	0.0	33111.6
	% Fixture	92.8	0.0	92.8
Total	Lumens	35687.0	0.0	35687.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	767.7	2.2
10°-20°	1658.0	4.6
20°-30°	2246.7	6.3
30°-40°	3116.1	8.7
40°-50°	4969.7	13.9
50°-60°	8590.6	24.1
60°-70°	9813.2	27.5
70°-80°	4091.2	11.5
80°-90°	433.8	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°	35687.0	100.0
0°-180°	35687.0	100.0

Coefficient of Utilization



REPORT NUMBER: P457854

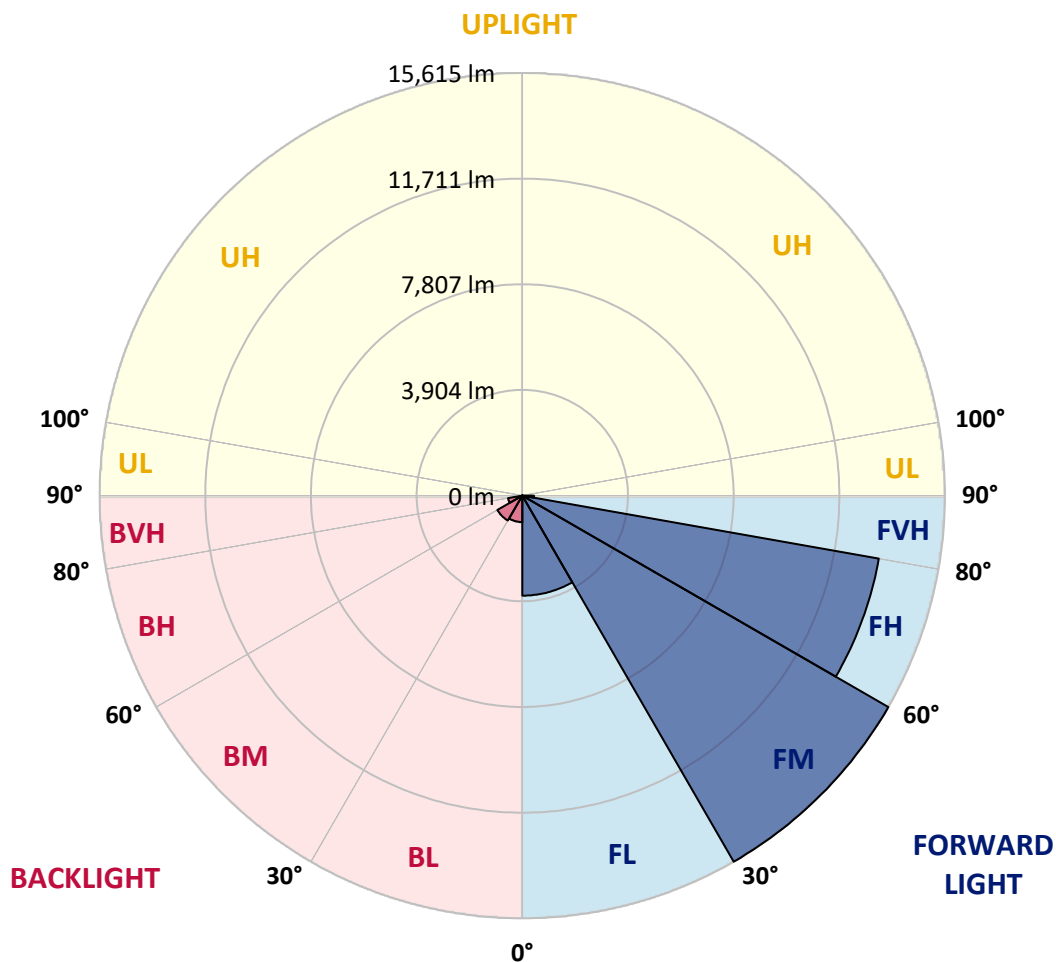
CATALOG NUMBER: GALN-SA9B-727-U-SL3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3694.5	10.4			
FM (30°-60°)	15614.6	43.8			
FH (60°-80°)	13372.0	37.5			G5
FVH (80°-90°)	430.6	1.2			G3/500
BL (0°-30°)	977.9	2.7	B2/1000		
BM (30°-60°)	1061.9	3.0	B2/2500		
BH (60°-80°)	532.4	1.5	B2/1000		G2/1000
BVH (80°-90°)	3.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5

Type III Short





REPORT NUMBER: P457854

CATALOG NUMBER: GALN-SA9B-727-U-SL3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	9460.3	9460.3	9460.3	9460.3	9460.3	9460.3	9460.3	9460.3	9460.3	9460.3	9460.3
2.5°	10979.4	10996.1	10934.1	10884.0	10755.2	10616.9	10433.3	10335.5	10168.6	9880.0	9560.5
5°	11236.9	11258.4	11248.9	11236.9	11186.9	11053.3	10819.6	10733.8	10488.1	10018.3	9441.2
7.5°	10664.6	10743.3	10752.8	10845.8	10934.1	10946.0	10857.8	10793.4	10566.8	10015.9	9229.0
10°	9906.2	9958.7	10035.0	10142.3	10354.6	10531.0	10616.9	10607.4	10476.2	9942.0	8981.0
12.5°	9140.7	9169.4	9286.2	9469.8	9729.8	10030.3	10259.2	10304.5	10306.9	9853.8	8773.5
15°	8482.5	8470.6	8561.2	8773.5	9138.4	9515.1	9925.3	9996.9	10111.3	9767.9	8580.3
17.5°	7919.7	7981.8	7996.1	8229.8	8566.0	9054.9	9577.1	9703.5	9932.5	9694.0	8420.5
20°	7571.6	7605.0	7636.0	7767.1	8070.0	8585.1	9250.4	9424.5	9765.5	9627.2	8241.7
22.5°	7469.0	7490.5	7464.3	7504.8	7719.4	8177.3	8895.1	9126.4	9605.8	9565.2	8096.2
25°	7547.7	7569.2	7507.2	7459.5	7533.4	7845.8	8551.7	8833.1	9477.0	9553.3	7986.5
27.5°	7738.5	7779.0	7693.2	7607.3	7564.4	7667.0	8282.2	8608.9	9388.8	9610.5	7936.4
30°	8036.6	8060.4	7996.1	7891.1	7793.4	7690.8	8141.5	8453.9	9364.9	9744.1	7931.7
32.5°	8360.9	8411.0	8375.2	8306.1	8179.7	7936.4	8182.1	8458.7	9422.1	9937.2	7991.3
35°	8761.6	8818.8	8852.2	8837.9	8675.7	8372.9	8439.6	8673.3	9574.8	10292.6	8153.5
37.5°	9155.0	9205.1	9393.5	9457.9	9314.8	9028.7	8940.4	9095.4	9911.0	10757.6	8446.8
40°	9605.8	9672.5	9937.2	10182.9	10113.7	9813.2	9651.1	9779.9	10426.1	11458.7	9002.4
42.5°	10037.4	10156.6	10559.7	10993.7	11058.1	10721.8	10614.5	10657.4	11189.2	12467.5	9777.5
45°	10650.3	10762.4	11282.2	11871.3	12174.1	11911.8	11802.1	11795.0	12236.1	13886.4	11034.2
47.5°	11535.0	11635.2	12248.1	12829.9	13368.9	13404.7	13197.2	13268.7	13552.5	15546.2	12574.8
50°	12620.1	12856.2	13259.2	13864.9	14585.1	15167.0	15231.4	15136.0	15379.2	17468.3	14425.3
52.5°	14196.4	14287.0	14656.7	15155.1	15999.3	16986.6	17752.1	17620.9	17544.6	19299.8	16295.0
55°	15372.1	15493.7	16068.4	16752.9	17990.5	19292.6	20952.4	20997.7	20034.3	21059.7	18124.1
57.5°	15016.8	15202.8	16073.2	17449.2	20170.2	22550.2	23785.5	23816.5	22337.9	22769.6	20189.3
60°	13192.4	13280.7	14527.9	16364.1	20356.2	26079.6	27803.8	27553.4	24682.1	24682.1	22013.6
62.5°	9355.4	9493.7	10504.8	13206.7	18384.0	27305.4	32616.2	32098.7	27911.1	26511.2	23101.1
65°	5978.6	5845.0	6515.1	8337.1	13695.6	25495.3	36806.2	36837.2	30949.3	27243.4	22507.3
67°	4330.7	4278.2	4471.4	5699.5	9286.2	21431.7	36894.4	38528.0	32694.9	26780.7	20609.0
67.5°	3961.1	4001.6	4142.3	5141.5	8437.2	19502.5	36493.8	38427.8	33088.4	26501.7	19922.2
70°	3002.4	2933.2	3085.9	3636.7	5058.1	12302.9	31392.8	35244.2	32599.5	23733.0	15918.2
72.5°	2208.3	2201.1	2413.4	2973.8	3894.3	6553.3	23566.1	28259.3	26632.9	18071.6	10023.1
75°	1490.5	1557.2	1895.9	2484.9	3529.4	4249.6	16066.0	20501.7	18489.0	10261.6	4097.0
77.5°	849.0	853.7	1221.0	1996.0	3169.3	3419.7	9519.9	13061.3	9787.0	3412.6	1216.2
80°	367.3	403.0	605.7	1449.9	2628.0	3028.6	5458.7	7178.1	3958.7	722.6	393.5
82.5°	135.9	159.8	267.1	891.9	1917.3	2494.4	3298.1	3426.9	1342.6	255.2	245.6
85°	0.0	4.8	97.8	417.3	999.2	1113.7	2203.5	2031.8	593.8	121.6	159.8
87.5°	0.0	0.0	0.0	42.9	131.2	414.9	684.4	763.1	143.1	42.9	38.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P457854
 CATALOG NUMBER: GALN-SA9B-727-U-SL3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	9460.3	9460.3	9460.3	9460.3	9460.3	9460.3	9460.3	9460.3	9460.3	9460.3	9460.3
2.5°	9388.8	9233.7	8845.0	8456.3	8167.8	7926.9	7564.4	7366.5	7261.6	7106.5	7116.1
5°	9152.7	8837.9	8153.5	7445.2	6872.8	6314.8	5647.1	5377.6	5151.1	5022.3	4936.4
7.5°	8802.1	8337.1	7323.6	6379.2	5499.2	4523.9	3791.7	3302.9	2973.8	2852.2	2735.3
10°	8418.2	7800.5	6481.7	5172.5	3951.5	2945.2	2325.1	1876.8	1717.0	1569.2	1583.5
12.5°	8062.8	7311.6	5709.1	4082.7	2768.7	1872.0	1459.5	1275.8	1223.4	1206.7	1206.7
15°	7771.9	6844.2	4879.2	3069.2	1898.3	1345.0	1168.5	1118.4	1099.4	1094.6	1094.6
17.5°	7461.9	6400.7	4130.4	2267.9	1380.8	1125.6	1066.0	1032.6	1025.4	1020.7	1020.7
20°	7185.2	5954.7	3419.7	1688.4	1116.1	1013.5	975.4	953.9	946.7	942.0	944.4
22.5°	6922.9	5558.8	2752.0	1275.8	982.5	922.9	884.7	863.3	849.0	837.0	839.4
25°	6689.2	5177.3	2213.0	1044.5	884.7	832.3	794.1	763.1	732.1	717.8	715.4
27.5°	6524.7	4843.4	1724.2	894.3	796.5	739.3	691.6	653.4	612.9	591.4	586.6
30°	6388.7	4504.8	1364.1	789.4	708.3	653.4	593.8	539.0	496.0	474.6	465.0
32.5°	6300.5	4182.8	1075.5	703.5	634.3	567.6	500.8	445.9	398.3	376.8	372.0
35°	6286.2	3913.4	880.0	632.0	567.6	496.0	426.9	367.3	326.7	305.2	300.5
37.5°	6388.7	3705.9	736.9	574.7	512.7	434.0	357.7	302.9	267.1	250.4	248.0
40°	6663.0	3574.7	639.1	527.0	462.6	376.8	305.2	257.6	221.8	205.1	205.1
42.5°	7185.2	3579.5	574.7	481.7	412.6	321.9	259.9	214.6	183.6	169.3	164.5
45°	8000.8	3741.7	519.9	436.4	364.9	279.0	221.8	176.5	145.5	133.5	133.5
47.5°	9093.0	4063.6	472.2	391.1	321.9	238.5	188.4	143.1	116.9	104.9	104.9
50°	10521.5	4581.1	431.6	352.9	286.2	205.1	152.6	116.9	90.6	81.1	78.7
52.5°	12014.4	5220.2	383.9	319.6	245.6	174.1	124.0	90.6	69.2	62.0	59.6
55°	13662.2	5845.0	338.6	286.2	200.3	145.5	97.8	71.5	50.1	42.9	42.9
57.5°	15324.4	6457.9	283.8	238.5	157.4	107.3	76.3	52.5	33.4	26.2	26.2
60°	16731.4	6655.8	240.9	193.2	119.2	76.3	54.8	33.4	19.1	11.9	11.9
62.5°	16924.6	5988.1	202.7	147.9	85.9	52.5	28.6	19.1	7.2	4.8	4.8
65°	15875.3	4864.9	169.3	112.1	57.2	26.2	11.9	7.2	2.4	0.0	0.0
67°	14225.0	3944.4	138.3	83.5	40.5	16.7	7.2	2.4	0.0	0.0	0.0
67.5°	13802.9	3760.7	133.5	78.7	35.8	14.3	4.8	2.4	0.0	0.0	0.0
70°	10831.5	2816.4	95.4	47.7	21.5	9.5	0.0	0.0	0.0	0.0	0.0
72.5°	6732.1	1593.0	69.2	28.6	14.3	4.8	0.0	0.0	0.0	0.0	0.0
75°	2544.5	558.0	47.7	19.1	9.5	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	791.7	212.2	28.6	14.3	4.8	0.0	0.0	0.0	0.0	0.0	0.0
80°	267.1	81.1	19.1	4.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	164.5	33.4	11.9	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	102.5	14.3	4.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	19.1	4.8	2.4	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)