

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: P454985

Luminaire Tested: **GALN-SA6A-827-U-SL4-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454985
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-SA6A-827-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 2700K, 615mA 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: 16398 lumens
Efficiency: N/A
Efficacy: 90.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

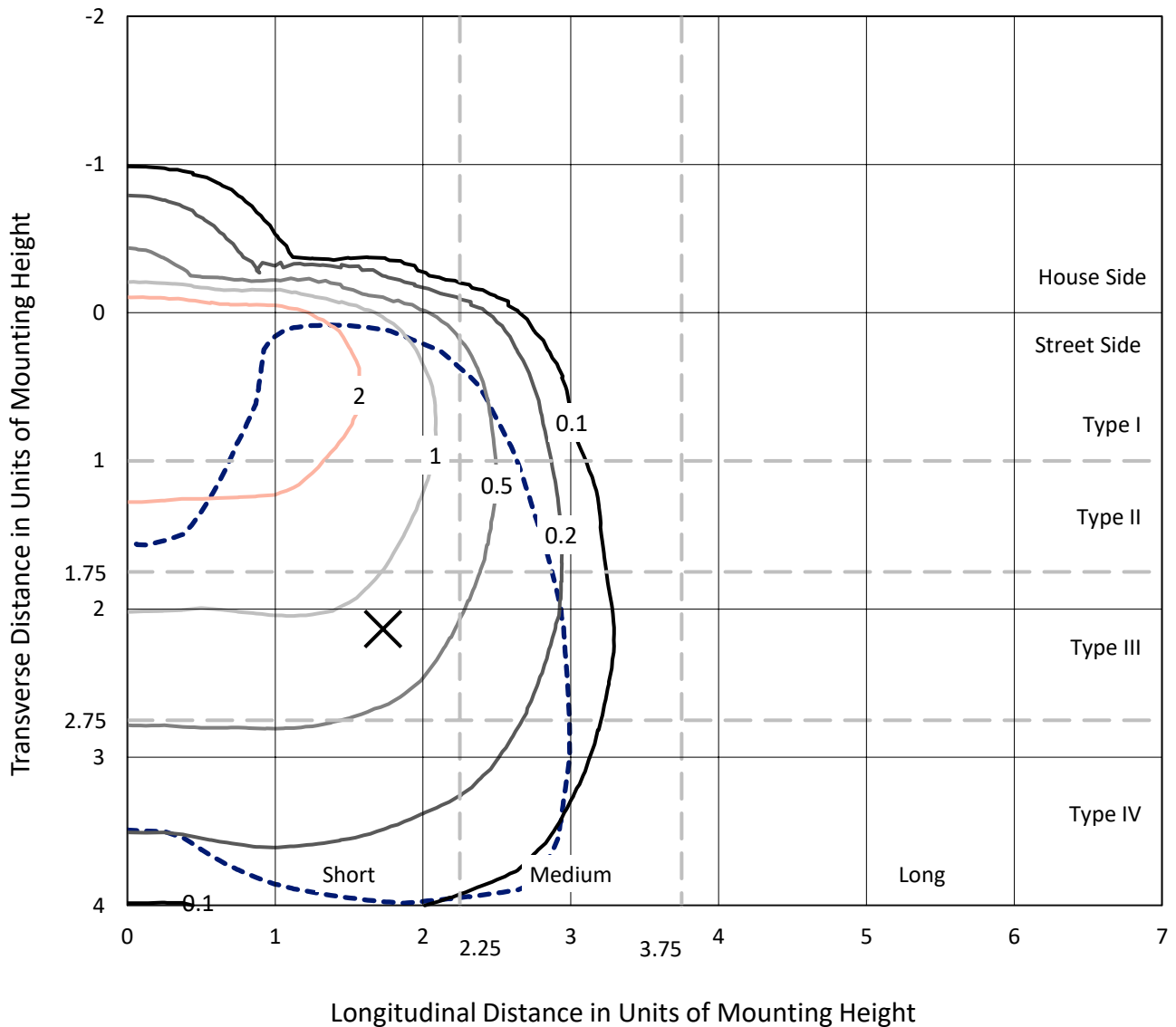
Input Watts (W): 182
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

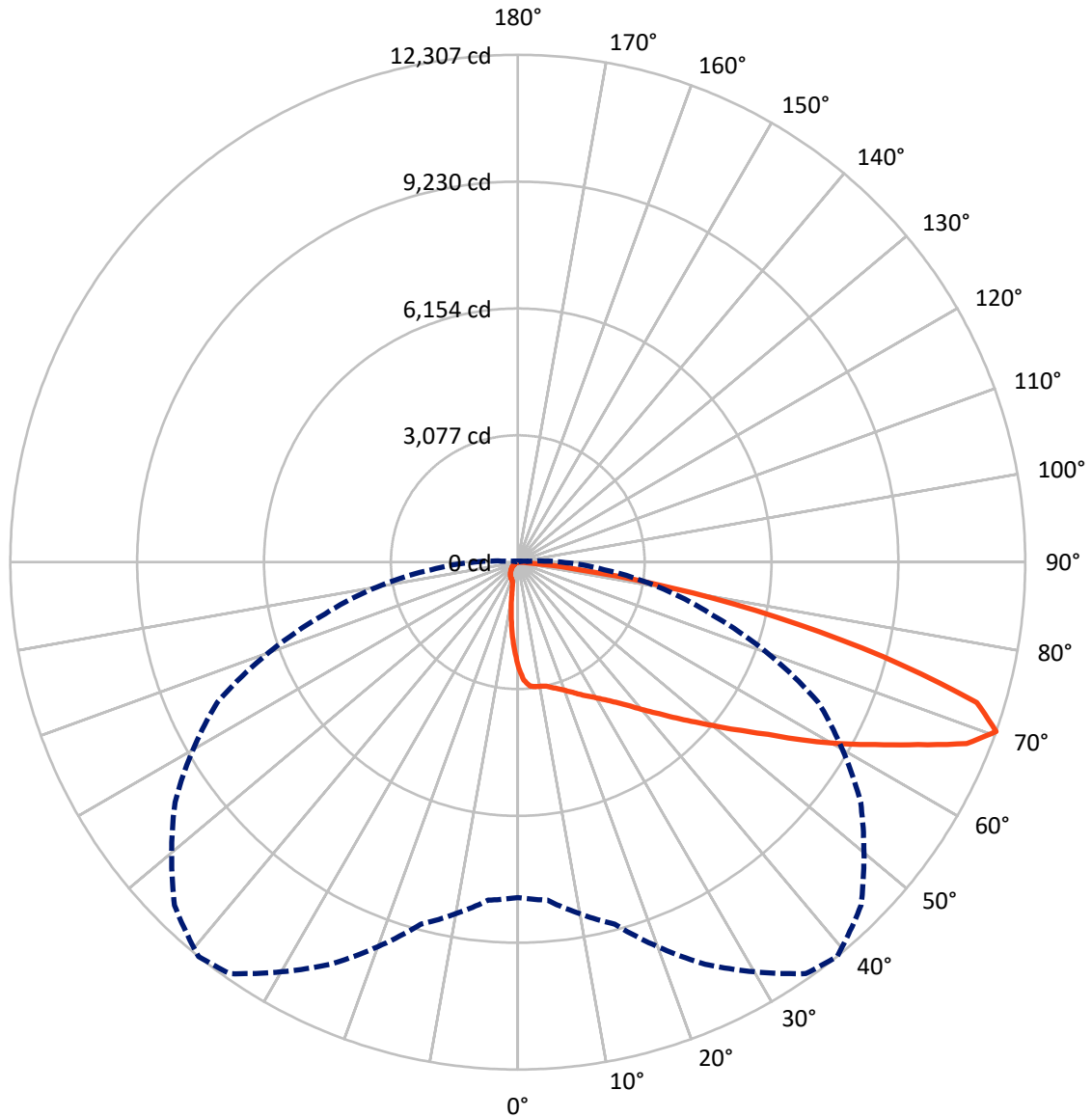
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 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	1069.2	0.0	1069.2
	% Fixture	6.5	0.0	6.5
Street Side	Lumens	15328.8	0.0	15328.8
	% Fixture	93.5	0.0	93.5
Total	Lumens	16398.0	0.0	16398.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	218.2	1.3
10°-20°	567.1	3.5
20°-30°	950.1	5.8
30°-40°	1473.5	9.0
40°-50°	2335.0	14.2
50°-60°	3422.8	20.9
60°-70°	4387.2	26.8
70°-80°	2756.8	16.8
80°-90°	287.2	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°	16398.0	100.0
0°-180°	16398.0	100.0



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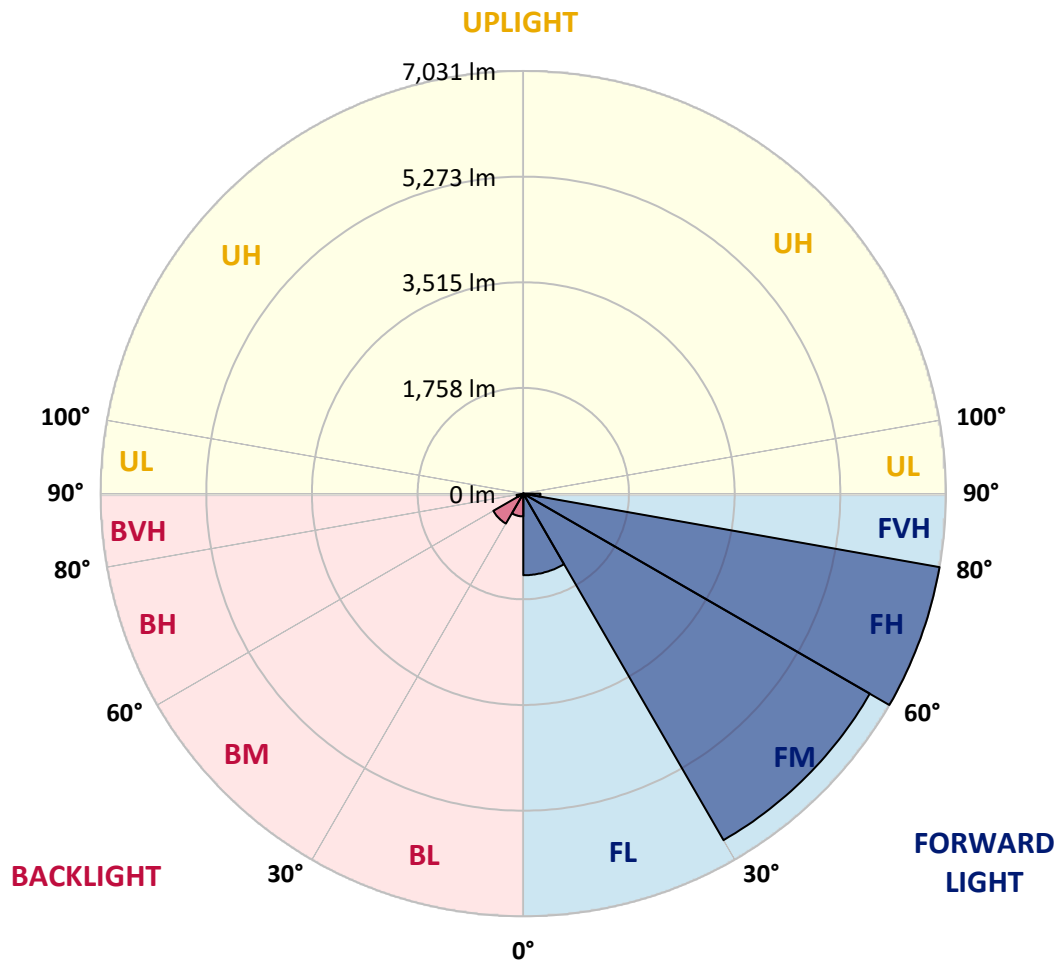
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1356.9	8.3			
FM (30°-60°)	6655.9	40.6			
FH (60°-80°)	7030.9	42.9			G3/7500
FVH (80°-90°)	285.1	1.7			G3/500
BL (0°-30°)	378.6	2.3	B1/500		
BM (30°-60°)	575.4	3.5	B1/1000		
BH (60°-80°)	113.1	0.7	B1/500		G1/500
BVH (80°-90°)	2.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	2558.7	2558.7	2558.7	2558.7	2558.7	2558.7	2558.7	2558.7	2558.7	2558.7	2558.7
2.5°	2956.4	2946.5	2933.3	2917.9	2873.8	2866.1	2839.6	2783.4	2716.2	2661.1	2585.1
5°	3096.4	3101.9	3092.0	3064.4	3032.5	3013.7	2980.7	2893.6	2806.6	2695.3	2570.8
7.5°	3128.3	3139.4	3127.2	3100.8	3069.9	3050.1	3023.7	2948.7	2847.4	2720.6	2549.8
10°	3125.0	3138.3	3130.5	3106.3	3081.0	3062.2	3033.6	2974.1	2892.5	2759.2	2556.4
12.5°	3119.5	3137.2	3136.1	3123.9	3103.0	3088.7	3071.0	3018.1	2942.1	2815.4	2592.8
15°	3104.1	3126.1	3146.0	3155.9	3157.0	3157.0	3135.0	3078.8	3006.0	2889.2	2640.2
17.5°	3110.7	3136.1	3185.6	3214.3	3234.1	3231.9	3208.8	3148.2	3067.7	2965.3	2689.8
20°	3151.5	3185.6	3255.1	3312.4	3332.2	3325.6	3294.7	3224.2	3132.7	3030.3	2738.3
22.5°	3251.8	3282.6	3369.7	3436.9	3451.2	3433.6	3389.5	3293.6	3211.0	3100.8	2796.7
25°	3401.6	3438.0	3518.4	3569.1	3569.1	3559.2	3497.5	3385.1	3299.1	3198.9	2872.7
27.5°	3583.4	3614.3	3693.6	3738.8	3712.4	3683.7	3622.0	3486.5	3403.8	3322.3	2964.2
30°	3767.5	3787.3	3871.0	3890.9	3863.3	3827.0	3760.8	3625.3	3552.6	3489.8	3096.4
32.5°	3941.6	3984.5	4054.0	4049.5	4012.1	3994.4	3933.8	3789.5	3748.7	3742.1	3281.5
35°	4115.7	4148.7	4210.4	4225.9	4192.8	4189.5	4145.4	4038.5	4039.6	4082.6	3570.2
37.5°	4265.5	4295.3	4368.0	4402.2	4408.8	4425.3	4407.7	4337.1	4437.4	4555.3	3952.6
40°	4391.1	4433.0	4525.6	4585.1	4653.4	4714.0	4717.3	4732.7	4934.4	5137.1	4451.7
42.5°	4489.2	4547.6	4682.0	4792.2	4948.7	5025.8	5087.5	5172.4	5511.8	5814.8	5040.2
45°	4617.0	4684.2	4851.7	5024.7	5269.4	5396.1	5482.0	5709.0	6190.6	6603.8	5644.0
47.5°	4828.6	4863.9	5034.7	5287.0	5608.8	5789.5	5957.0	6300.8	6918.9	7289.2	6146.5
50°	5100.8	5123.9	5252.8	5603.2	6019.8	6257.8	6563.0	6967.4	7674.8	7857.8	6430.8
52.5°	5401.6	5409.3	5506.3	5951.5	6480.4	6780.1	7121.7	7620.9	8290.8	8263.3	6619.2
55°	5750.9	5739.9	5822.5	6329.4	7025.8	7368.5	7766.3	8289.7	8825.3	8550.9	6727.2
57.5°	6150.9	6121.1	6201.6	6830.8	7724.4	8134.3	8538.8	8867.1	9239.6	8792.2	6779.0
60°	6569.6	6510.1	6606.0	7393.9	8547.6	8936.5	9272.6	9360.8	9675.9	8983.9	6689.7
62.5°	6903.5	6904.6	7083.1	7993.3	9393.8	9734.3	9912.8	9992.2	10051.7	8942.1	6220.3
65°	7424.7	7442.3	7727.7	8825.3	10373.4	10668.8	10791.1	10533.2	10068.2	8421.9	5515.1
67.5°	7962.4	8018.6	8541.0	9971.2	11505.1	11743.1	11585.6	10637.9	9618.6	7235.2	4181.8
70°	8137.7	8230.2	9090.8	10760.2	12183.9	12307.3	11774.0	10149.8	8040.7	4837.4	2104.7
72.5°	7456.7	7606.5	8774.6	10472.6	11750.8	11644.0	10534.3	8512.3	5111.8	1836.9	642.4
75°	5258.3	5324.5	7292.5	8687.5	9451.1	9148.1	8013.1	5487.5	2102.5	515.7	220.4
77.5°	2715.1	2683.2	4337.1	5764.1	6740.4	6426.4	5247.3	2840.7	796.7	214.9	136.6
80°	1403.8	1427.0	1876.6	3020.4	4114.6	3786.2	2797.8	1316.8	424.2	119.0	104.7
82.5°	786.8	738.3	1078.8	1319.0	1923.9	1508.5	1073.3	932.2	185.1	71.6	99.2
85°	143.2	149.9	591.7	712.9	667.8	424.2	346.0	622.6	54.0	39.7	69.4
87.5°	2.2	2.2	114.6	205.0	130.0	59.5	109.1	89.3	11.0	15.4	12.1
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°	2558.7	2558.7	2558.7	2558.7	2558.7	2558.7	2558.7	2558.7	2558.7	2558.7	2558.7
2.5°	2546.5	2504.7	2426.4	2349.3	2251.2	2170.8	2116.8	2060.6	2003.3	2007.7	2020.9
5°	2502.5	2429.7	2275.5	2112.4	1955.9	1814.9	1676.0	1551.5	1500.8	1454.5	1456.7
7.5°	2458.4	2355.9	2130.0	1874.4	1637.4	1397.2	1223.1	1079.9	1003.8	946.5	930.0
10°	2438.5	2303.0	1996.7	1645.2	1309.1	1046.8	823.1	706.3	616.0	587.3	595.0
12.5°	2447.4	2276.6	1876.6	1438.0	1038.0	729.5	573.0	513.5	493.7	490.4	488.1
15°	2463.9	2257.8	1758.7	1208.8	762.5	542.1	481.5	470.5	468.3	466.1	467.2
17.5°	2485.9	2241.3	1633.0	993.9	585.1	473.8	456.2	450.7	449.6	449.6	449.6
20°	2508.0	2222.6	1493.1	802.2	488.1	447.4	436.4	433.1	432.0	432.0	430.8
22.5°	2533.3	2206.0	1350.9	630.3	449.6	428.6	418.7	416.5	415.4	414.3	414.3
25°	2569.7	2185.1	1200.0	515.7	425.3	411.0	401.1	398.9	397.8	393.4	394.5
27.5°	2618.2	2169.7	1044.6	445.2	403.3	389.0	382.4	379.1	376.9	373.5	374.7
30°	2684.3	2156.5	879.3	406.6	378.0	365.8	359.2	357.0	354.8	351.5	351.5
32.5°	2798.9	2162.0	705.2	375.8	354.8	340.5	333.9	331.7	329.5	326.2	326.2
35°	2970.8	2193.9	564.2	349.3	327.3	312.9	306.3	306.3	303.0	298.6	297.5
37.5°	3251.8	2275.5	452.9	324.0	300.8	287.6	279.9	277.7	274.4	267.8	266.7
40°	3583.4	2402.2	381.3	298.6	276.6	263.4	256.7	250.1	241.3	234.7	233.6
42.5°	4000.0	2532.2	330.6	273.3	253.4	241.3	233.6	222.6	209.4	200.5	199.4
45°	4434.1	2651.2	296.4	250.1	231.4	221.5	212.7	195.0	178.5	167.5	166.4
47.5°	4758.1	2673.2	268.9	228.1	212.7	202.8	190.6	168.6	146.6	136.6	133.3
50°	4911.2	2566.4	240.2	206.1	193.9	182.9	167.5	142.1	117.9	105.8	103.6
52.5°	4965.2	2381.2	217.1	186.2	175.2	162.0	143.2	114.6	92.6	80.4	79.3
55°	4943.2	2147.6	196.1	167.5	153.2	137.7	119.0	91.5	68.3	58.4	56.2
57.5°	4827.5	1850.1	175.2	148.8	131.1	115.7	94.8	68.3	46.3	37.5	36.4
60°	4515.7	1444.6	154.3	127.8	111.3	94.8	74.9	48.5	28.6	20.9	20.9
62.5°	3988.9	1072.2	134.4	106.9	93.7	76.0	52.9	30.9	15.4	11.0	9.9
65°	3333.3	791.2	112.4	90.4	78.2	59.5	37.5	18.7	7.7	3.3	2.2
67.5°	2326.1	488.1	93.7	73.8	63.9	43.0	23.1	7.7	3.3	0.0	0.0
70°	1056.7	232.5	71.6	56.2	48.5	30.9	12.1	4.4	2.2	0.0	0.0
72.5°	328.4	122.3	50.7	40.8	33.1	19.8	6.6	3.3	2.2	0.0	0.0
75°	152.1	78.2	32.0	22.0	18.7	9.9	4.4	2.2	1.1	0.0	0.0
77.5°	113.5	60.6	18.7	12.1	9.9	6.6	3.3	2.2	1.1	0.0	0.0
80°	99.2	30.9	11.0	7.7	5.5	4.4	2.2	1.1	0.0	0.0	0.0
82.5°	89.3	15.4	6.6	4.4	3.3	2.2	1.1	1.1	0.0	0.0	0.0
85°	48.5	8.8	4.4	3.3	2.2	1.1	1.1	0.0	0.0	0.0	0.0
87.5°	8.8	4.4	3.3	2.2	2.2	1.1	1.1	1.1	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)