

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: P458008

Luminaire Tested: **GALN-SA9B-827-U-T2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458008
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-11)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA9B-827-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28348 lumens
Efficiency: N/A
Efficacy: 77.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G4

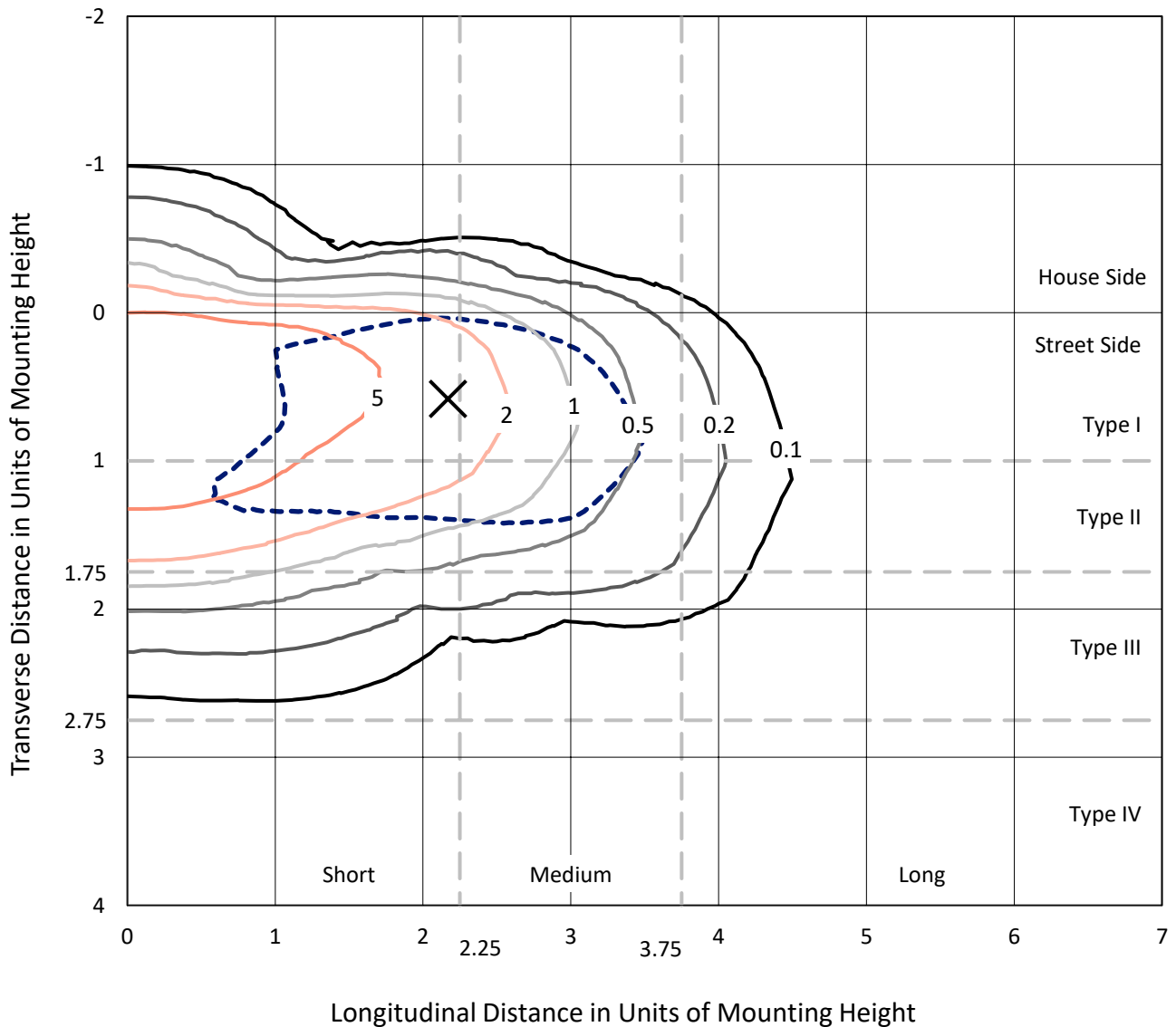
Input Watts (W): 364
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

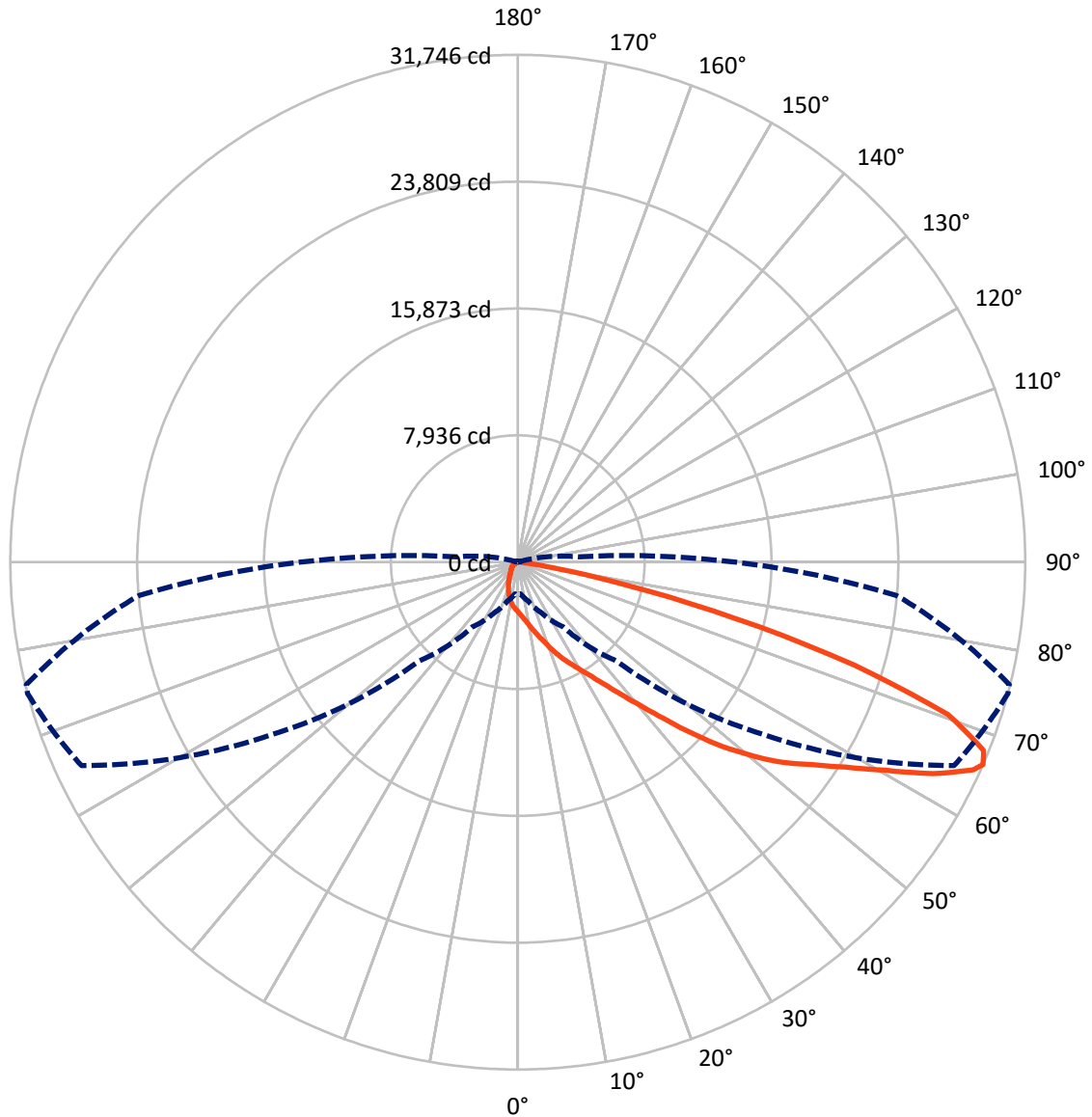
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1750.1	0.0	1750.1
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	26597.9	0.0	26597.9
	% Fixture	93.8	0.0	93.8
Total	Lumens	28348.0	0.0	28348.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	299.0	1.1
10°-20°	880.0	3.1
20°-30°	1519.6	5.4
30°-40°	2741.0	9.7
40°-50°	4951.7	17.5
50°-60°	7719.8	27.2
60°-70°	7333.5	25.9
70°-80°	2748.4	9.7
80°-90°	155.1	0.5
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°	28348.0	100.0
0°-180°	28348.0	100.0

Coefficient of Utilization



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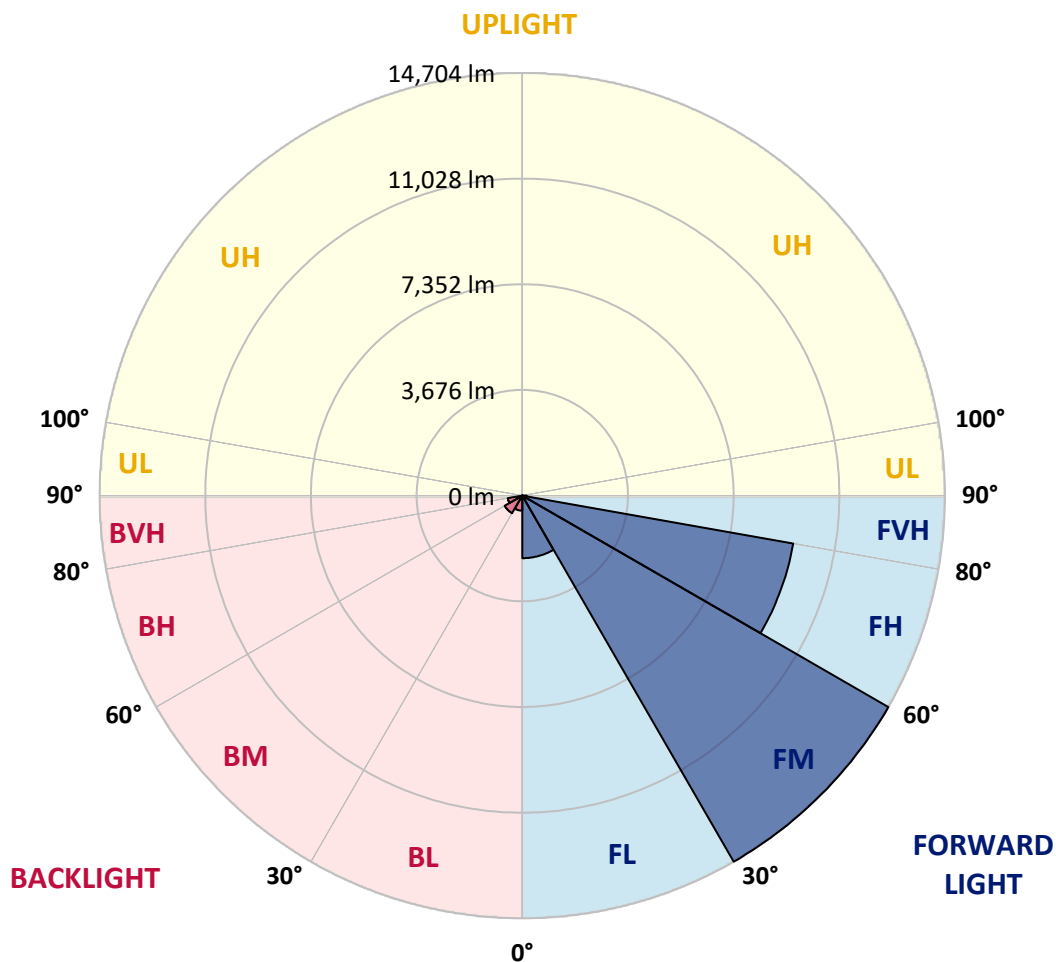
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2176.0	7.7			
FM (30°-60°)	14704.1	51.9			
FH (60°-80°)	9570.8	33.8			G4/12000
FVH (80°-90°)	147.1	0.5			G2/225
BL (0°-30°)	522.7	1.8	B2/1000		
BM (30°-60°)	708.4	2.5	B1/1000		
BH (60°-80°)	511.0	1.8	B2/1000		G2/1000
BVH (80°-90°)	8.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3100.1	3100.1	3100.1	3100.1	3100.1	3100.1	3100.1	3100.1	3100.1	3100.1	3100.1
2.5°	3703.8	3657.7	3672.4	3651.4	3603.2	3531.9	3469.0	3378.9	3288.8	3274.1	3173.5
5°	4192.2	4179.6	4162.9	4102.1	4068.5	3959.5	3829.6	3674.5	3487.9	3454.4	3272.0
7.5°	4525.5	4519.2	4527.6	4496.1	4466.8	4368.3	4229.9	4018.2	3729.0	3710.1	3406.2
10°	4634.5	4651.2	4682.7	4733.0	4779.1	4747.7	4642.9	4378.8	4041.3	3986.8	3559.2
12.5°	4571.6	4590.5	4665.9	4800.1	4948.9	5034.8	4992.9	4800.1	4372.5	4328.4	3731.1
15°	4410.2	4433.3	4540.2	4747.7	5013.9	5257.0	5361.8	5223.5	4758.2	4686.9	3938.6
17.5°	4171.2	4204.8	4357.8	4632.4	4997.1	5416.3	5711.9	5665.8	5169.0	5101.9	4165.0
20°	3991.0	4016.1	4146.1	4460.5	4925.8	5504.4	6045.2	6175.1	5676.2	5561.0	4431.2
22.5°	4110.5	4118.8	4162.9	4351.5	4798.0	5527.4	6338.6	6705.4	6214.9	6112.2	4707.8
25°	4695.3	4611.4	4567.4	4525.5	4770.7	5506.5	6604.8	7258.8	6751.5	6642.5	4982.4
27.5°	5617.6	5579.8	5357.6	5060.0	5003.4	5533.7	6780.9	7782.8	7256.7	7139.3	5250.7
30°	6621.6	6556.6	6420.4	5984.4	5546.3	5726.5	6908.8	8292.2	7854.1	7699.0	5496.0
32.5°	7543.9	7585.8	7382.5	6933.9	6426.6	6137.4	7074.3	8847.6	8539.5	8346.7	5781.0
35°	8619.2	8703.0	8390.7	7961.0	7367.8	6879.4	7397.1	9474.4	9409.4	9166.3	6221.2
37.5°	9711.2	9761.5	9570.8	8967.1	8432.6	7822.7	8005.0	10247.8	10480.5	10273.0	6747.4
40°	10629.3	10698.5	10558.1	10021.5	9451.3	8914.7	8887.5	11090.5	11754.9	11541.1	7531.3
42.5°	11331.5	11383.9	11388.1	11008.7	10495.2	10252.0	10013.1	12165.8	13352.2	13104.8	8441.0
45°	12218.2	12293.6	12249.6	11991.8	11608.2	11564.2	11440.5	13465.4	15263.8	14951.5	9621.1
47.5°	13589.0	13639.3	13530.3	13226.4	12836.5	12905.7	12832.3	14922.1	17213.2	16944.9	10843.1
50°	14540.7	14624.5	14779.6	14901.2	14618.2	14362.5	14144.5	16282.5	19064.0	18823.0	12092.4
52.5°	14530.2	14668.5	15159.0	15771.1	16389.4	16311.9	15685.1	17785.4	20831.1	20533.4	13266.2
55°	13551.3	13819.6	14540.7	15626.4	17339.0	18192.1	17907.0	19525.2	22357.0	22155.8	14626.6
57.5°	11530.7	11694.1	12696.1	14213.7	16808.6	19076.6	20481.0	21883.3	24186.9	24092.6	16739.5
60°	7755.6	7828.9	9118.0	10994.1	14310.1	18194.2	22367.5	24736.1	26440.2	26394.1	19206.6
62.5°	4443.7	4475.2	5410.0	6992.6	10182.9	15418.9	22526.8	28255.4	29142.1	29167.3	22061.5
65°	2391.7	2408.4	3163.0	4104.2	6196.1	10989.9	20256.7	30183.9	31326.2	31374.4	23830.6
66°	2064.7	1985.0	2517.4	3498.4	4930.0	8747.0	18820.9	30114.7	31745.5	31693.1	23767.7
67.5°	1570.0	1641.2	2010.2	2689.3	3653.5	6219.1	15538.4	28775.3	31426.8	31263.4	22801.4
70°	1123.5	1152.9	1431.6	1917.9	2488.1	3412.5	9929.2	23899.7	28563.6	28343.5	19864.8
72.5°	725.3	756.7	1014.5	1387.6	1798.5	1863.4	5558.9	17267.7	22021.6	21990.2	14959.9
75°	517.7	547.1	670.8	993.6	1352.0	1152.9	2676.7	11637.6	13999.9	13905.5	9254.3
77.5°	375.2	389.9	448.6	649.8	966.3	825.9	1240.9	6214.9	6969.5	7298.6	4089.5
80°	215.9	228.5	312.3	396.2	654.0	563.9	593.2	2494.4	2571.9	2448.2	1278.6
82.5°	106.9	121.6	186.6	270.4	408.7	379.4	272.5	750.4	792.3	771.4	322.8
85°	25.2	31.4	104.8	178.2	199.1	169.8	132.1	220.1	272.5	266.2	123.7
87.5°	2.1	4.2	37.7	31.4	33.5	56.6	46.1	56.6	88.0	81.7	44.0
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°	3100.1	3100.1	3100.1	3100.1	3100.1	3100.1	3100.1	3100.1	3100.1	3100.1	3100.1
2.5°	3127.4	3087.6	2972.3	2859.1	2764.8	2666.2	2576.1	2523.7	2502.7	2479.7	2490.2
5°	3171.4	3075.0	2842.3	2641.1	2444.1	2276.4	2142.2	2056.3	2014.4	2008.1	1997.6
7.5°	3230.1	3064.5	2704.0	2389.6	2131.7	1945.2	1792.2	1668.5	1630.8	1597.2	1570.0
10°	3301.4	3045.6	2532.1	2125.4	1850.9	1616.1	1414.9	1268.1	1192.7	1171.7	1186.4
12.5°	3376.8	3010.0	2351.8	1882.3	1565.8	1266.0	1079.5	1006.1	985.2	976.8	978.9
15°	3452.3	2966.0	2163.2	1647.5	1247.2	1010.3	924.4	905.5	897.1	892.9	888.7
17.5°	3521.5	2894.7	1951.5	1419.1	1010.3	863.6	832.2	815.4	798.6	792.3	781.8
20°	3603.2	2813.0	1760.7	1163.3	855.2	781.8	744.1	712.7	687.5	670.8	668.7
22.5°	3680.8	2708.2	1561.6	964.2	779.7	702.2	641.4	607.9	578.5	557.6	563.9
25°	3722.7	2580.3	1383.4	840.5	710.6	622.5	555.5	513.5	482.1	471.6	469.5
27.5°	3722.7	2423.1	1209.5	769.3	647.7	551.3	482.1	442.3	421.3	406.6	408.7
30°	3693.3	2249.1	1048.1	714.8	593.2	488.4	423.4	387.8	371.0	360.5	358.4
32.5°	3670.3	2083.5	909.7	662.4	536.6	433.9	377.3	350.0	333.3	322.8	322.8
35°	3705.9	1941.0	802.8	610.0	484.2	392.0	341.7	316.5	299.7	291.4	289.3
37.5°	3800.2	1811.0	721.1	553.4	436.0	356.3	316.5	287.2	270.4	259.9	255.7
40°	4032.9	1737.7	660.3	501.0	389.9	327.0	287.2	259.9	239.0	228.5	226.4
42.5°	4406.0	1739.8	601.6	452.8	354.2	301.8	262.0	230.6	207.5	197.0	194.9
45°	4967.8	1819.4	555.5	406.6	322.8	274.6	234.8	201.2	180.3	169.8	169.8
47.5°	5640.6	1974.5	515.6	366.8	293.5	249.4	207.5	174.0	153.0	144.6	144.6
50°	6370.1	2175.8	475.8	324.9	268.3	222.2	178.2	150.9	134.2	127.9	127.9
52.5°	7114.2	2418.9	436.0	291.4	241.1	192.8	153.0	134.2	119.5	115.3	113.2
55°	8091.0	2729.1	394.1	255.7	211.7	165.6	136.2	117.4	100.6	94.3	92.2
57.5°	9593.9	3196.6	348.0	224.3	174.0	138.3	117.4	98.5	79.7	69.2	67.1
60°	11407.0	3766.7	299.7	197.0	140.4	113.2	94.3	75.5	58.7	46.1	44.0
62.5°	13104.8	4129.3	253.6	165.6	111.1	85.9	67.1	56.6	41.9	29.3	27.2
65°	13855.2	4007.7	209.6	134.2	88.0	60.8	44.0	39.8	25.2	12.6	10.5
66°	13605.8	3827.5	192.8	121.6	79.7	52.4	37.7	33.5	18.9	6.3	6.3
67.5°	12870.1	3402.0	167.7	104.8	69.2	41.9	29.3	25.2	10.5	2.1	0.0
70°	11027.6	2752.2	132.1	77.6	50.3	29.3	16.8	12.6	6.3	0.0	0.0
72.5°	8470.3	2050.0	104.8	58.7	35.6	16.8	8.4	4.2	6.3	0.0	0.0
75°	5189.9	1171.7	81.7	44.0	23.1	10.5	6.3	0.0	6.3	2.1	0.0
77.5°	2303.6	526.1	54.5	29.3	16.8	8.4	4.2	0.0	4.2	2.1	0.0
80°	582.7	171.9	31.4	21.0	12.6	6.3	2.1	0.0	4.2	4.2	2.1
82.5°	159.3	62.9	23.1	16.8	10.5	6.3	2.1	0.0	4.2	4.2	4.2
85°	62.9	29.3	21.0	16.8	12.6	6.3	2.1	0.0	4.2	4.2	4.2
87.5°	29.3	21.0	21.0	18.9	14.7	6.3	2.1	0.0	4.2	2.1	4.2
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)