

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: P382970

Luminaire Tested: **GLEON-SA3B-735-U-SL3-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P382970  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-23)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA3B-735-U-SL3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 3500K, 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: 13885.7 lumens  
Efficiency: N/A  
Efficacy: 112.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G3

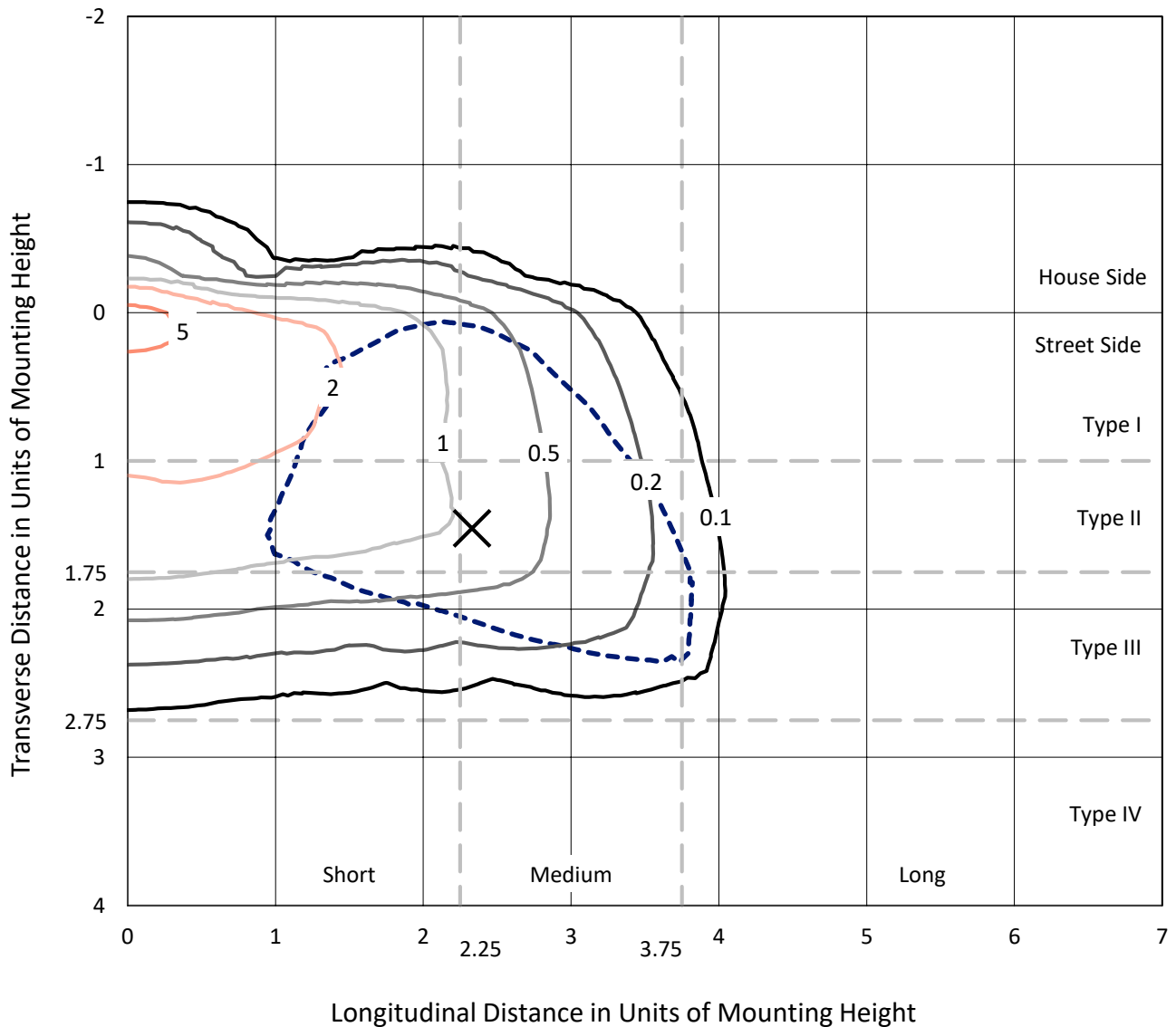
Input Watts (W): 124  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

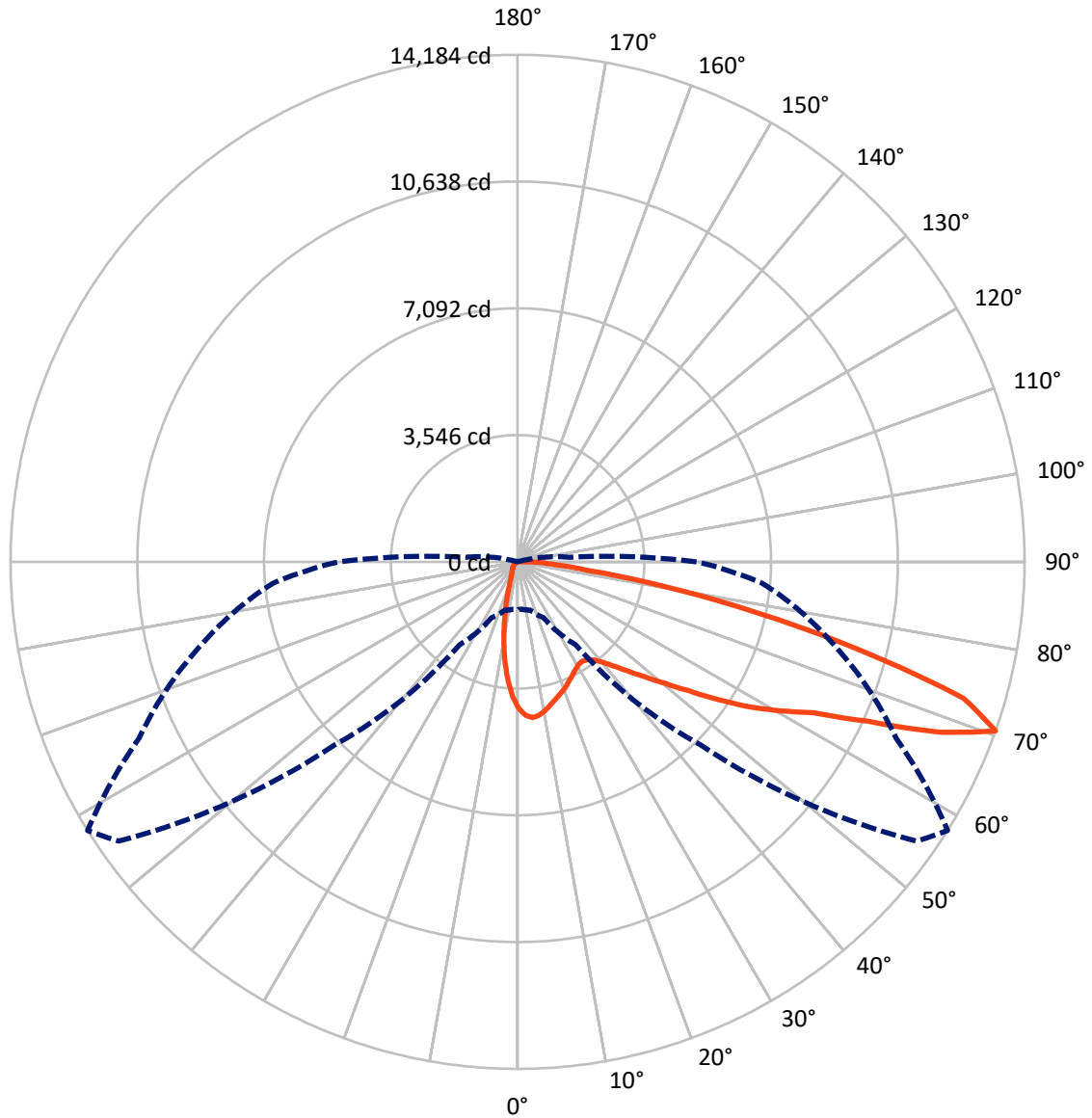
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1188.3	0.0	1188.3
	% Fixture	8.6	0.0	8.6
<b>Street Side</b>	Lumens	12697.4	0.0	12697.4
	% Fixture	91.4	0.0	91.4
<b>Total</b>	Lumens	13885.7	0.0	13885.7
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	335.4	2.4
10°-20°	704.0	5.1
20°-30°	925.5	6.7
30°-40°	1225.7	8.8
40°-50°	1832.0	13.2
50°-60°	2934.8	21.1
60°-70°	3699.3	26.6
70°-80°	1995.4	14.4
80°-90°	233.6	1.7
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°	13885.7	100.0
0°-180°	13885.7	100.0

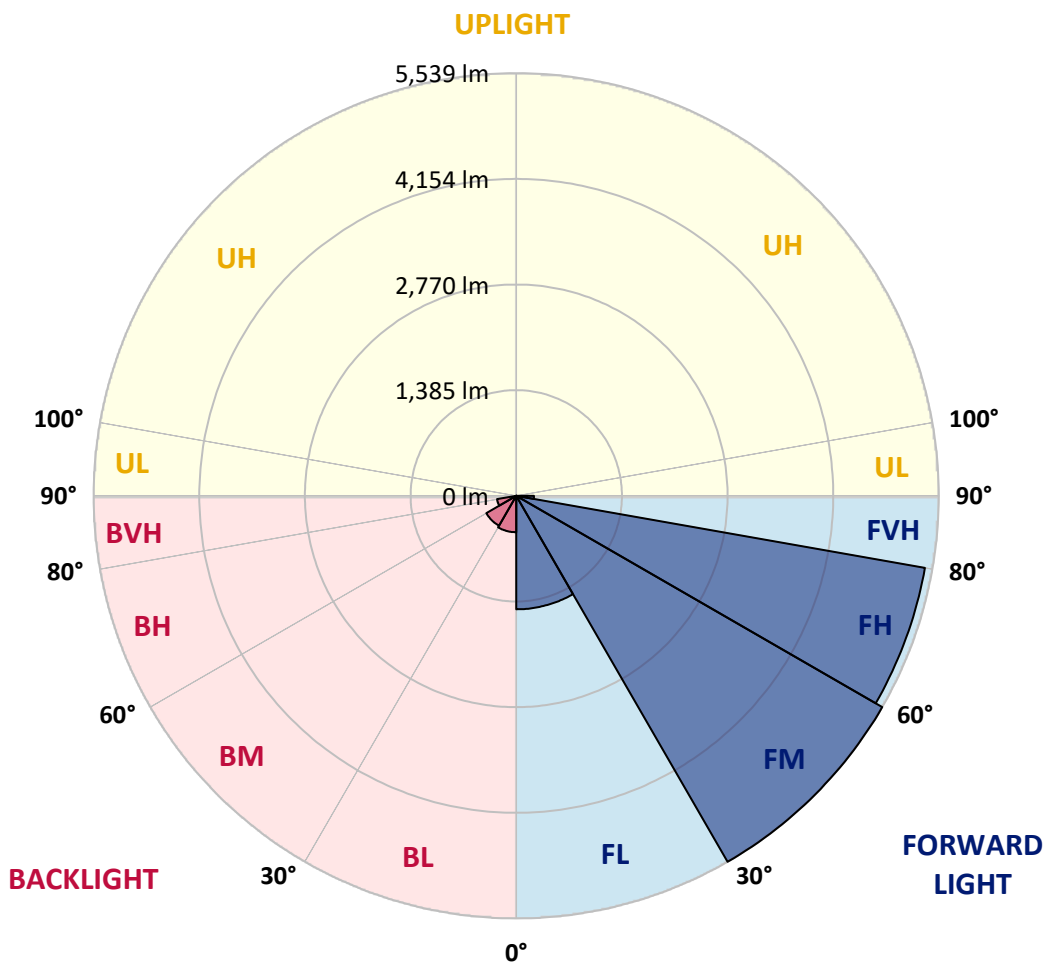


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1487.4	10.7			
FM (30°-60°)	5539.2	39.9			
FH (60°-80°)	5439.2	39.2			G3/7500
FVH (80°-90°)	231.6	1.7			G3/500
BL (0°-30°)	477.4	3.4	B1/500		
BM (30°-60°)	453.3	3.3	B1/1000		
BH (60°-80°)	255.6	1.8	B1/500		G1/500
BVH (80°-90°)	2.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G3**  
 Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	4101.8	4101.8	4101.8	4101.8	4101.8	4101.8	4101.8	4101.8	4101.8	4101.8	4101.8
2.5°	4441.8	4430.9	4426.8	4419.9	4393.4	4367.4	4316.0	4301.5	4269.2	4192.4	4111.0
5°	4445.3	4444.7	4456.8	4453.9	4444.7	4432.6	4395.6	4376.6	4321.7	4212.0	4063.0
7.5°	4231.1	4242.1	4269.2	4291.2	4316.5	4349.5	4354.1	4335.6	4290.5	4172.2	3974.7
10°	3943.5	3960.8	3998.9	4042.3	4108.7	4174.5	4233.4	4231.1	4215.5	4098.9	3868.5
12.5°	3655.4	3675.6	3719.5	3783.6	3877.8	3985.2	4090.2	4104.7	4130.7	4033.0	3770.3
15°	3403.1	3420.5	3463.8	3542.3	3658.9	3803.2	3957.4	3983.9	4050.9	3981.6	3688.4
17.5°	3188.9	3199.9	3231.6	3318.8	3453.9	3628.8	3829.2	3881.2	3981.1	3941.3	3617.3
20°	3039.4	3041.1	3061.9	3123.1	3258.2	3453.9	3696.5	3770.9	3907.2	3906.6	3544.0
22.5°	2965.5	2959.7	2963.7	2998.9	3098.2	3287.1	3563.6	3651.9	3840.8	3877.2	3469.5
25°	2951.6	2947.0	2935.4	2940.1	3000.1	3141.0	3429.7	3531.9	3782.5	3859.2	3404.8
27.5°	2994.9	2999.5	2979.9	2959.1	2963.7	3046.3	3310.7	3429.1	3735.1	3859.2	3359.3
30°	3082.1	3084.4	3070.0	3042.8	3006.5	3019.7	3228.2	3346.5	3711.5	3885.9	3330.4
32.5°	3178.5	3191.2	3189.5	3167.5	3115.6	3061.9	3208.5	3316.5	3709.7	3944.7	3327.5
35°	3298.1	3312.5	3336.7	3332.1	3277.8	3189.5	3275.5	3360.4	3743.8	4041.7	3358.7
37.5°	3425.0	3447.0	3499.0	3523.8	3488.6	3388.7	3425.7	3486.2	3835.0	4198.8	3437.8
40°	3548.1	3572.9	3667.6	3765.1	3738.6	3635.8	3653.2	3701.6	3997.3	4424.5	3587.9
42.5°	3668.7	3705.7	3844.8	4005.4	4037.0	3955.1	3964.3	4003.0	4238.0	4735.1	3833.2
45°	3813.1	3854.7	4060.8	4258.8	4343.7	4307.8	4347.2	4372.6	4552.7	5145.7	4164.1
47.5°	4024.9	4072.9	4325.7	4551.5	4700.5	4723.6	4802.7	4819.5	4950.5	5623.8	4595.4
50°	4438.4	4451.7	4680.3	4885.3	5100.0	5238.7	5328.7	5341.4	5432.0	6146.3	5134.1
52.5°	4958.6	4967.3	5096.6	5234.0	5478.2	5761.2	5971.9	5989.9	6008.9	6655.5	5665.9
55°	5475.4	5474.2	5559.7	5640.5	5920.0	6331.1	6788.4	6799.3	6662.4	7138.8	6072.4
57.5°	5798.1	5829.3	5959.2	6063.2	6453.5	6980.6	7615.1	7655.6	7349.0	7496.8	6474.3
60°	5695.3	5710.4	5998.5	6383.0	7118.0	7903.8	8451.7	8462.2	7865.1	7854.2	6982.3
62.5°	4852.3	4860.4	5313.1	6105.8	7454.6	9101.3	9461.1	9291.9	8458.7	8350.2	7590.3
65°	3325.7	3378.3	3756.5	4736.3	6836.3	9852.5	11023.5	10743.4	9363.5	9065.0	8140.0
67.5°	1958.5	1947.5	2134.6	2856.3	5020.9	9353.7	12999.8	12721.6	10597.4	9543.6	7978.9
70°	1337.8	1330.3	1401.9	1729.2	2834.4	7256.0	13621.7	14183.5	11686.9	9221.5	6866.9
72.5°	955.0	959.0	1064.7	1343.6	1779.5	4227.6	11714.0	13043.7	11345.7	8039.0	5219.6
75°	648.5	659.3	810.6	1102.2	1560.1	2150.8	8312.7	9915.5	9238.8	5842.6	3000.1
77.5°	348.8	360.9	539.3	888.0	1410.5	1494.3	5347.2	6824.1	5803.4	2626.5	869.5
80°	145.5	152.4	252.4	645.6	1218.8	1312.4	3146.2	4138.1	2473.0	517.9	194.0
82.5°	63.0	66.4	105.1	385.1	911.1	1108.0	1665.8	1990.8	749.4	113.7	97.5
85°	12.1	12.7	43.3	203.8	581.5	625.3	1079.8	1058.3	336.7	49.1	71.0
87.5°	0.0	0.0	10.4	64.1	170.9	340.7	658.8	650.7	114.3	23.7	26.5
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°	4101.8	4101.8	4101.8	4101.8	4101.8	4101.8	4101.8	4101.8	4101.8	4101.8	4101.8
2.5°	4069.5	4029.6	3945.8	3842.5	3763.5	3676.3	3607.0	3519.2	3481.1	3482.8	3462.0
5°	3978.2	3896.2	3710.8	3477.0	3296.8	3111.0	2951.0	2791.7	2697.6	2666.9	2638.0
7.5°	3847.7	3717.8	3422.1	3061.9	2757.0	2459.1	2199.8	1971.8	1827.4	1757.0	1731.0
10°	3700.5	3518.0	3090.1	2615.6	2180.2	1777.2	1441.2	1149.0	1032.3	953.3	933.0
12.5°	3571.2	3324.0	2765.7	2157.7	1640.9	1154.7	834.3	652.5	573.4	542.2	536.9
15°	3449.3	3142.8	2453.3	1743.1	1136.3	710.8	530.6	468.8	450.4	445.2	445.2
17.5°	3334.4	2970.1	2147.9	1334.9	751.8	498.3	439.4	425.5	419.8	419.2	419.8
20°	3214.3	2797.4	1847.6	978.1	524.8	422.1	405.9	398.4	396.7	396.7	396.7
22.5°	3099.4	2624.8	1555.5	698.7	420.9	385.1	377.0	371.9	370.1	369.5	368.3
25°	2989.1	2460.8	1270.3	493.6	369.5	352.8	345.9	338.9	333.8	330.9	329.1
27.5°	2898.5	2314.7	1004.7	396.1	333.8	319.3	310.7	300.2	287.6	281.8	279.5
30°	2826.3	2181.4	774.3	334.3	300.2	285.8	272.6	254.6	236.1	226.4	225.7
32.5°	2769.7	2050.3	587.8	295.6	270.2	252.4	233.3	210.7	189.4	178.4	177.8
35°	2742.0	1934.8	449.2	267.4	243.7	221.1	197.5	172.6	151.8	141.5	140.3
37.5°	2760.5	1837.2	350.4	243.7	221.1	195.2	167.4	141.5	123.0	113.7	113.2
40°	2828.1	1774.9	284.7	223.5	202.1	170.3	140.3	116.1	100.4	93.0	92.4
42.5°	2971.8	1751.8	243.0	206.7	183.6	147.3	116.6	95.9	81.4	76.2	75.1
45°	3212.0	1785.9	214.8	190.5	164.5	125.3	96.4	78.5	65.9	61.8	61.2
47.5°	3531.9	1875.4	194.6	174.9	147.3	105.6	80.3	63.5	53.7	49.7	49.1
50°	3944.2	2017.4	177.8	159.4	131.1	89.5	66.4	50.2	41.5	38.7	38.7
52.5°	4392.7	2186.5	162.8	144.9	114.9	74.5	53.7	38.7	32.9	29.4	29.4
55°	4763.5	2334.4	146.6	134.0	95.3	61.8	41.0	29.4	24.2	22.5	22.5
57.5°	5133.6	2492.0	128.2	114.9	76.2	50.2	31.2	22.0	17.9	16.8	16.8
60°	5613.3	2684.8	110.3	93.5	60.1	38.1	23.1	15.6	13.3	12.7	12.7
62.5°	6141.0	2798.0	94.1	75.1	46.8	28.3	16.8	10.4	9.8	9.8	9.2
65°	6463.8	2638.0	79.1	60.1	36.3	21.3	11.0	7.5	8.7	8.1	6.9
67.5°	6052.2	2065.3	64.6	46.8	28.3	16.2	6.9	5.2	9.2	7.5	5.8
70°	5011.2	1445.8	50.2	32.9	22.5	13.9	4.7	3.4	9.8	7.5	4.7
72.5°	3750.1	967.7	39.9	22.0	16.8	12.1	4.0	1.8	8.7	6.3	4.0
75°	2049.1	389.8	31.8	13.9	10.4	8.7	2.9	1.1	5.8	4.7	2.9
77.5°	539.3	102.7	23.1	9.2	5.8	3.4	1.8	0.6	2.9	2.3	1.1
80°	137.4	39.9	15.0	6.3	4.0	1.8	0.0	0.0	0.6	0.0	0.0
82.5°	73.3	16.8	9.2	4.7	2.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	55.4	11.0	5.2	2.9	0.6	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	21.3	3.4	1.8	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)