

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: P528569

Luminaire Tested: **GALN-SA3C-830-U-SL2-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P528569  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-17)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA3C-830-U-SL2-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9734 lumens  
Efficiency: N/A  
Efficacy: 60.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1

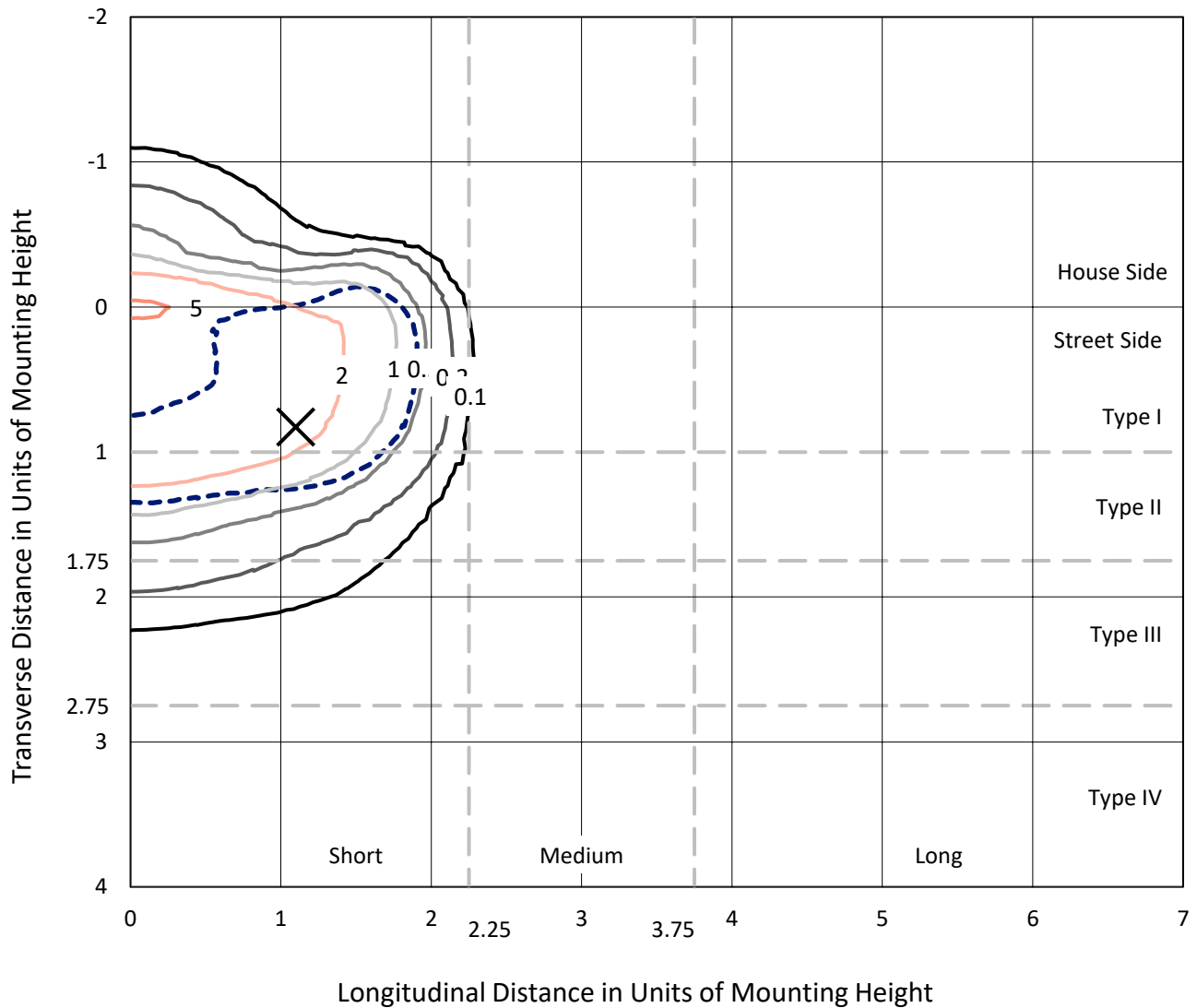
Input Watts (W): 160  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

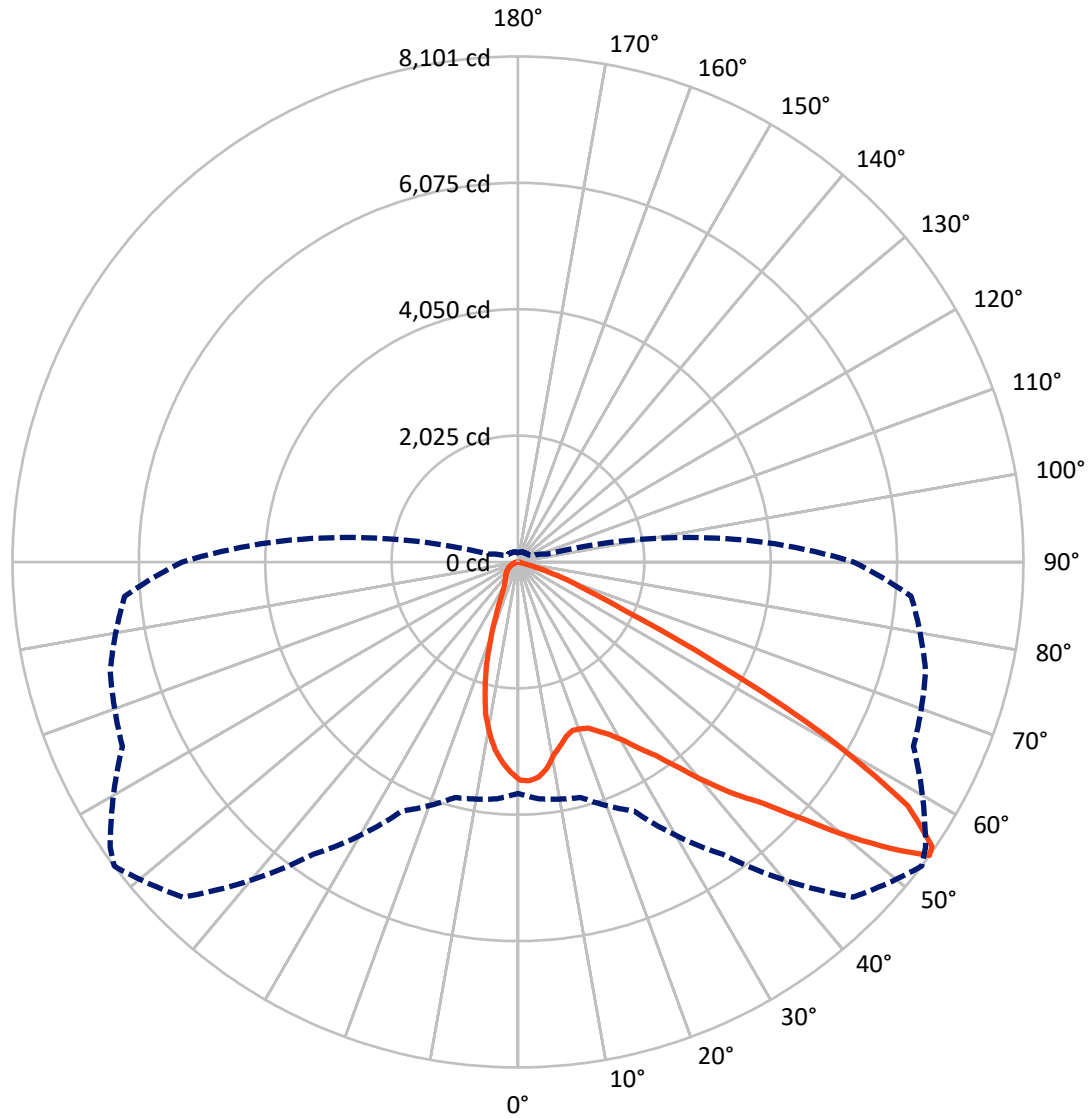
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral      - - - Horizontal Cone Through 54-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1610.5	0.0	1610.5
	% Fixture	16.5	0.0	16.5
<b>Street Side</b>	Lumens	8123.5	0.0	8123.5
	% Fixture	83.5	0.0	83.5
<b>Total</b>	Lumens	9734.0	0.0	9734.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	300.0	3.1
10°-20°	687.7	7.1
20°-30°	977.4	10.0
30°-40°	1508.4	15.5
40°-50°	2365.1	24.3
50°-60°	2747.4	28.2
60°-70°	1038.1	10.7
70°-80°	98.7	1.0
80°-90°	11.1	0.1
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°	9734.0	100.0
0°-180°	9734.0	100.0

**Coefficient of Utilization**

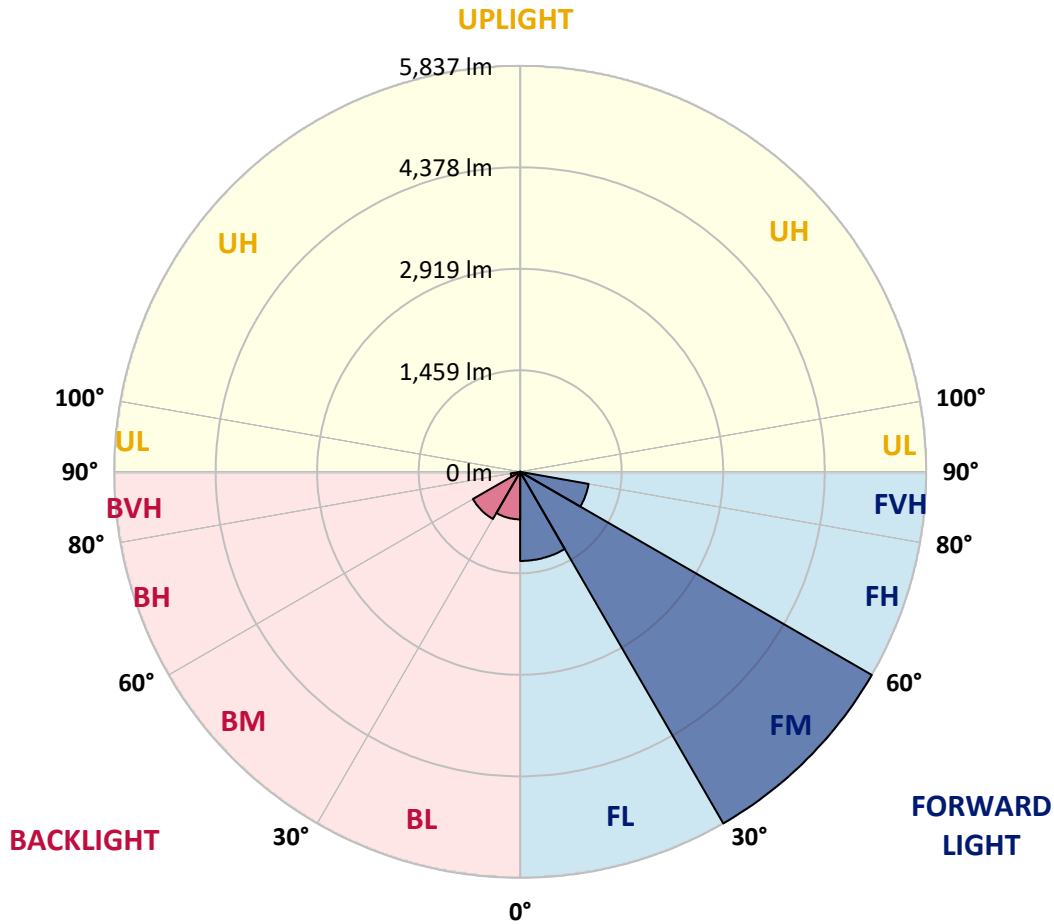


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1281.7	13.2			
FM (30°-60°)	5837.2	60.0			
FH (60°-80°)	998.9	10.3			G1/1800
FVH (80°-90°)	5.7	0.1			G0/10
BL (0°-30°)	683.4	7.0	B2/1000		
BM (30°-60°)	783.7	8.1	B1/1000		
BH (60°-80°)	138.0	1.4	B1/500		G1/500
BVH (80°-90°)	5.4	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G1**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	3496.3	3496.3	3496.3	3496.3	3496.3	3496.3	3496.3	3496.3	3496.3	3496.3	3496.3
2.5°	3478.2	3447.3	3478.2	3481.8	3503.5	3523.5	3510.8	3539.8	3523.5	3505.4	3499.9
5°	3197.1	3238.8	3240.6	3305.9	3291.4	3411.1	3463.6	3449.1	3538.0	3532.6	3519.9
7.5°	2945.0	2928.7	2950.4	3026.6	3122.7	3260.5	3336.7	3334.9	3461.8	3552.5	3543.4
10°	2711.1	2709.3	2754.6	2814.4	2896.0	3041.1	3146.3	3198.9	3396.6	3534.4	3554.3
12.5°	2553.3	2546.1	2595.0	2644.0	2772.7	2885.2	3019.4	3044.7	3271.4	3470.9	3503.5
15°	2449.9	2466.3	2469.9	2564.2	2645.8	2794.5	2899.7	2952.3	3213.4	3420.1	3545.3
17.5°	2431.8	2453.6	2455.4	2533.4	2620.4	2745.5	2838.0	2908.7	3164.4	3445.5	3547.1
20°	2468.1	2455.4	2466.3	2515.2	2600.5	2720.1	2854.3	2877.9	3148.1	3458.2	3567.0
22.5°	2571.4	2567.8	2540.6	2580.5	2640.4	2765.5	2892.4	2928.7	3195.3	3523.5	3583.3
25°	2685.7	2705.6	2680.2	2674.8	2716.5	2839.8	3008.5	3055.6	3353.0	3641.4	3634.1
27.5°	2899.7	2879.7	2879.7	2854.3	2843.5	2903.3	3133.6	3211.6	3528.9	3793.7	3692.1
30°	3104.6	3126.3	3110.0	3119.1	3046.6	3041.1	3311.3	3407.4	3840.8	4025.8	3815.5
32.5°	3429.2	3400.2	3427.4	3403.8	3307.7	3209.8	3552.5	3652.2	4218.0	4292.4	4000.4
35°	3699.4	3686.7	3802.8	3799.1	3643.2	3547.1	3808.2	3956.9	4481.0	4611.5	4218.0
37.5°	4083.8	4060.3	4192.6	4256.1	4116.5	3973.2	4174.5	4346.8	4725.8	4867.2	4441.1
40°	4479.2	4539.0	4716.7	4821.9	4673.2	4482.8	4622.4	4675.0	4889.0	5034.1	4593.4
42.5°	4979.7	5066.7	5248.1	5338.7	5326.0	5119.3	5077.6	5075.8	5006.9	4986.9	4705.8
45°	5460.2	5427.6	5706.9	5904.5	6064.1	6004.3	5516.4	5462.0	5193.7	5057.6	4734.9
47.5°	5670.6	5659.7	5850.1	6201.9	6746.0	6820.3	6154.8	5944.4	5509.2	5355.1	4892.6
50°	5398.6	5454.8	5643.4	6033.3	6867.5	7435.1	6938.2	6655.3	5877.3	5717.7	5266.2
52.5°	4510.0	4548.1	4727.6	5222.7	6454.0	7797.7	7688.9	7525.7	6553.7	6289.0	5917.2
54°	3708.5	3810.0	3907.9	4404.8	5717.7	7596.4	8100.6	7975.5	6994.4	6764.1	6327.0
55°	3229.7	3289.6	3360.3	3855.3	5208.2	7255.5	8053.4	8064.3	7290.0	6912.8	6602.7
57.5°	2359.3	2401.0	2328.4	2547.9	3576.1	5891.8	7366.1	7659.9	7688.9	7135.8	6771.3
60°	1802.5	1820.7	1739.1	1773.5	2223.3	4043.9	5697.8	6051.4	6936.4	6236.4	5735.9
62.5°	1398.2	1401.8	1400.0	1459.8	1532.3	2379.2	3563.4	3877.1	4782.0	4428.4	3895.2
65°	1030.0	1013.7	1042.7	1224.1	1307.5	1496.1	1876.9	2105.4	2598.6	2194.2	1568.6
67.5°	667.3	672.8	701.8	910.3	1120.7	1147.9	1155.2	1137.0	1138.8	627.4	393.5
70°	400.8	409.8	400.8	515.0	801.5	823.3	752.6	734.4	573.0	148.7	146.9
72.5°	237.6	224.9	201.3	221.2	333.7	399.0	359.1	357.2	224.9	87.0	87.0
75°	99.7	90.7	74.4	67.1	88.9	85.2	85.2	76.2	59.8	58.0	54.4
77.5°	19.9	19.9	14.5	16.3	21.8	25.4	30.8	30.8	36.3	36.3	34.5
80°	0.0	1.8	5.4	10.9	16.3	23.6	27.2	27.2	30.8	30.8	25.4
82.5°	0.0	1.8	5.4	10.9	14.5	21.8	27.2	27.2	30.8	32.6	27.2
85°	0.0	1.8	5.4	9.1	14.5	18.1	18.1	16.3	12.7	10.9	7.3
87.5°	0.0	0.0	1.8	3.6	1.8	3.6	3.6	3.6	3.6	3.6	3.6
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°	3496.3	3496.3	3496.3	3496.3	3496.3	3496.3	3496.3	3496.3	3496.3	3496.3	3496.3
2.5°	3512.6	3510.8	3467.3	3396.6	3380.2	3320.4	3313.1	3276.9	3296.8	3229.7	3222.5
5°	3483.6	3461.8	3409.2	3363.9	3231.5	3137.2	3062.9	2972.2	2919.6	2928.7	2894.2
7.5°	3525.3	3469.1	3376.6	3218.8	3057.4	2892.4	2803.6	2618.6	2551.5	2451.8	2437.2
10°	3481.8	3440.1	3296.8	3035.7	2812.6	2575.1	2366.5	2161.6	2005.7	1938.6	1924.0
12.5°	3478.2	3405.6	3166.2	2876.1	2553.3	2212.4	1909.5	1653.8	1499.7	1412.7	1392.7
15°	3421.9	3334.9	3019.4	2629.5	2183.4	1759.0	1429.0	1182.4	1064.5	1013.7	1028.2
17.5°	3427.4	3296.8	2872.5	2368.3	1818.9	1291.2	975.6	848.7	817.9	830.5	830.5
20°	3421.9	3211.6	2694.8	2067.3	1392.7	895.8	716.3	671.0	690.9	730.8	721.7
22.5°	3392.9	3171.7	2531.5	1750.0	1024.6	663.7	574.9	576.7	607.5	656.5	667.3
25°	3414.7	3082.8	2324.8	1429.0	747.1	529.5	498.7	511.4	544.0	580.3	587.6
27.5°	3398.4	3019.4	2109.0	1109.8	545.8	455.2	453.4	467.9	482.4	509.6	509.6
30°	3416.5	2961.3	1896.8	825.1	449.7	417.1	409.8	420.7	435.2	440.7	438.8
32.5°	3483.6	2917.8	1652.0	616.6	397.1	380.8	380.8	380.8	379.0	386.3	388.1
35°	3630.5	2925.1	1436.2	476.9	362.7	350.0	344.6	337.3	333.7	337.3	339.1
37.5°	3790.1	2921.4	1213.2	406.2	337.3	326.4	313.7	302.8	301.0	304.7	299.2
40°	3860.8	2955.9	1006.5	364.5	313.7	301.0	281.1	272.0	273.8	277.5	273.8
42.5°	3956.9	2966.8	872.3	331.9	292.0	272.0	259.3	248.4	246.6	252.1	250.3
45°	3955.1	2905.1	730.8	313.7	272.0	250.3	233.9	224.9	224.9	228.5	230.3
47.5°	4071.1	2896.0	627.4	297.4	257.5	235.7	215.8	208.5	206.7	206.7	203.1
50°	4341.3	3023.0	547.7	279.3	239.4	219.4	203.1	194.0	186.8	183.2	181.3
52.5°	4869.1	3418.3	486.0	257.5	219.4	203.1	188.6	181.3	172.3	163.2	161.4
54°	5380.4	3826.3	482.4	239.4	203.1	192.2	179.5	175.9	165.0	152.3	148.7
55°	5610.7	4063.9	495.1	224.9	192.2	185.0	174.1	170.5	159.6	145.1	143.3
57.5°	5801.2	4156.4	487.8	186.8	174.1	172.3	163.2	157.8	145.1	125.1	121.5
60°	4669.6	3142.7	350.0	165.0	159.6	156.0	148.7	145.1	128.8	107.0	105.2
62.5°	2950.4	1808.0	223.1	145.1	139.6	134.2	125.1	121.5	107.0	85.2	79.8
65°	1256.7	748.9	150.5	128.8	119.7	110.6	103.4	97.9	85.2	63.5	61.7
67.5°	326.4	266.6	125.1	112.4	99.7	87.0	81.6	72.5	58.0	43.5	41.7
70°	146.9	134.2	105.2	94.3	79.8	67.1	59.8	50.8	38.1	29.0	27.2
72.5°	87.0	85.2	79.8	70.7	59.8	50.8	43.5	34.5	25.4	16.3	16.3
75°	54.4	52.6	54.4	49.0	41.7	38.1	32.6	23.6	14.5	7.3	7.3
77.5°	32.6	32.6	32.6	30.8	29.0	29.0	23.6	14.5	7.3	1.8	1.8
80°	25.4	25.4	27.2	25.4	25.4	25.4	19.9	10.9	3.6	0.0	0.0
82.5°	25.4	27.2	30.8	29.0	25.4	21.8	18.1	10.9	3.6	0.0	0.0
85°	7.3	5.4	9.1	12.7	18.1	16.3	12.7	9.1	3.6	0.0	0.0
87.5°	3.6	3.6	3.6	3.6	1.8	1.8	1.8	1.8	1.8	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)