

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: P529089

Luminaire Tested: **GALN-SA4B-727-U-SL2-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P529089  
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-SA4B-727-U-SL2-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 2700K, 800mA 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: 10988 lumens  
Efficiency: N/A  
Efficacy: 67.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1

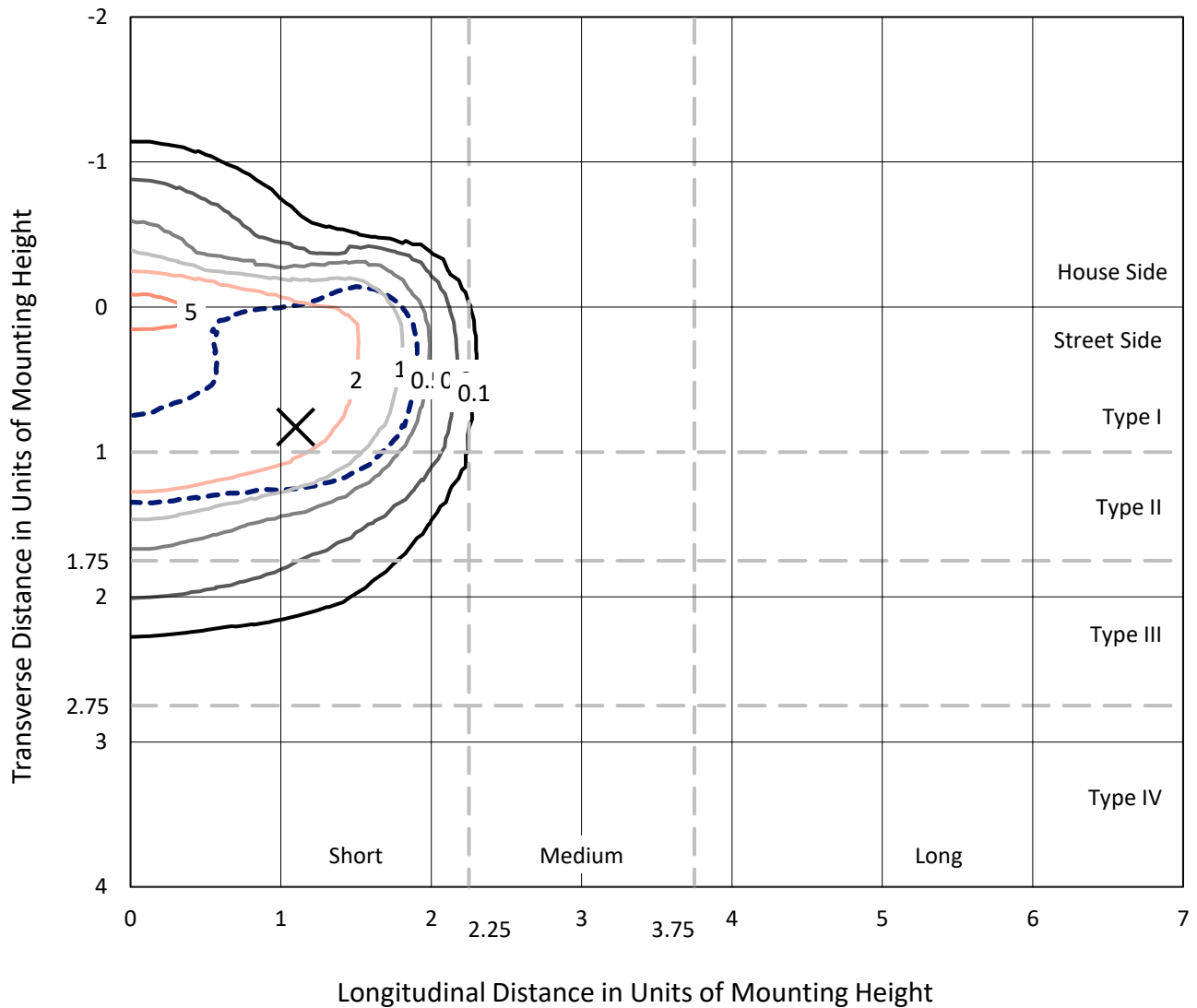
Input Watts (W): 164  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

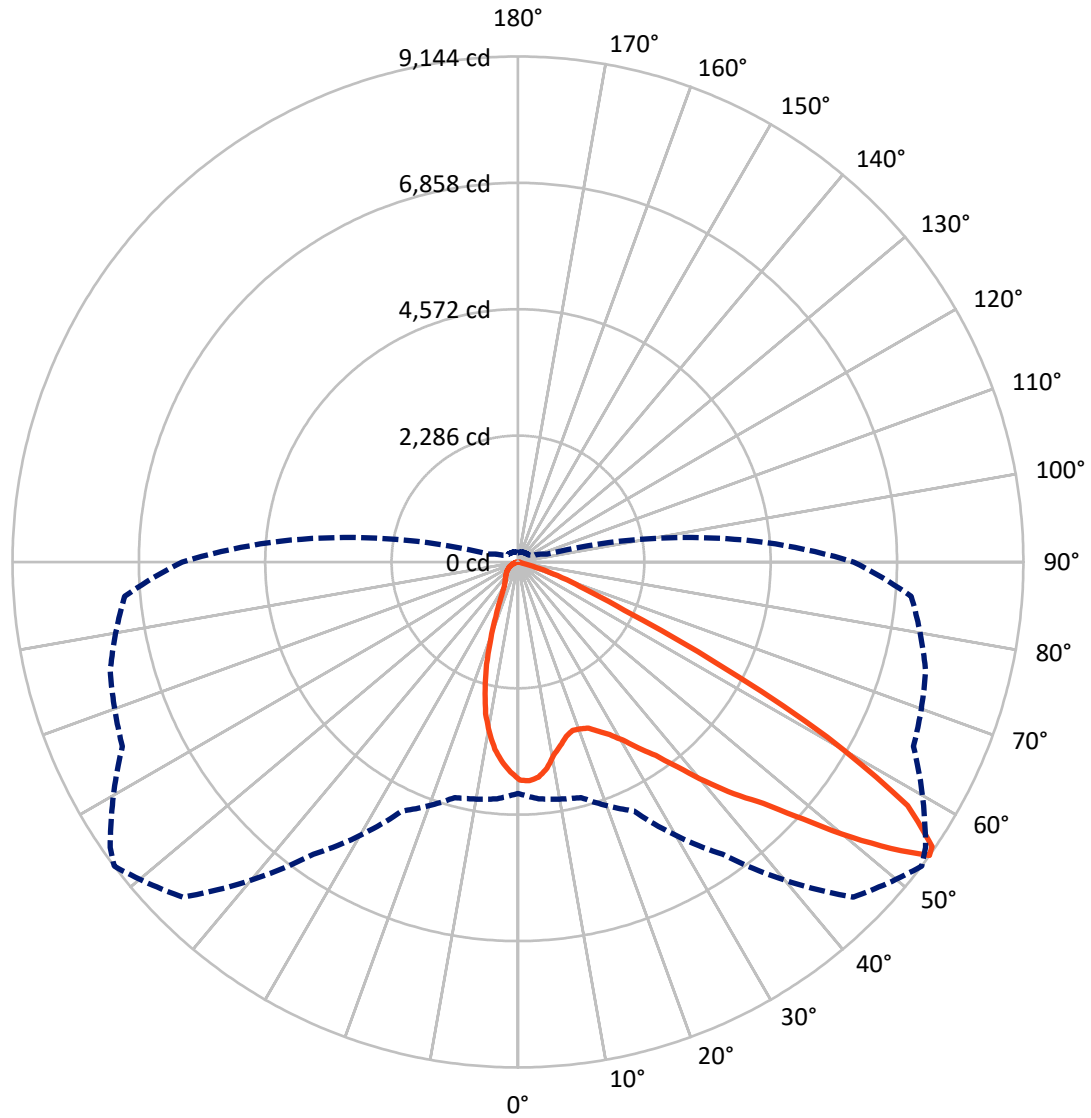
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 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	1818.0	0.0	1818.0
	% Fixture	16.5	0.0	16.5
<b>Street Side</b>	Lumens	9170.0	0.0	9170.0
	% Fixture	83.5	0.0	83.5
<b>Total</b>	Lumens	10988.0	0.0	10988.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	338.6	3.1
10°-20°	776.3	7.1
20°-30°	1103.4	10.0
30°-40°	1702.8	15.5
40°-50°	2669.8	24.3
50°-60°	3101.3	28.2
60°-70°	1171.9	10.7
70°-80°	111.4	1.0
80°-90°	12.5	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°	10988.0	100.0
0°-180°	10988.0	100.0

**Coefficient of Utilization**

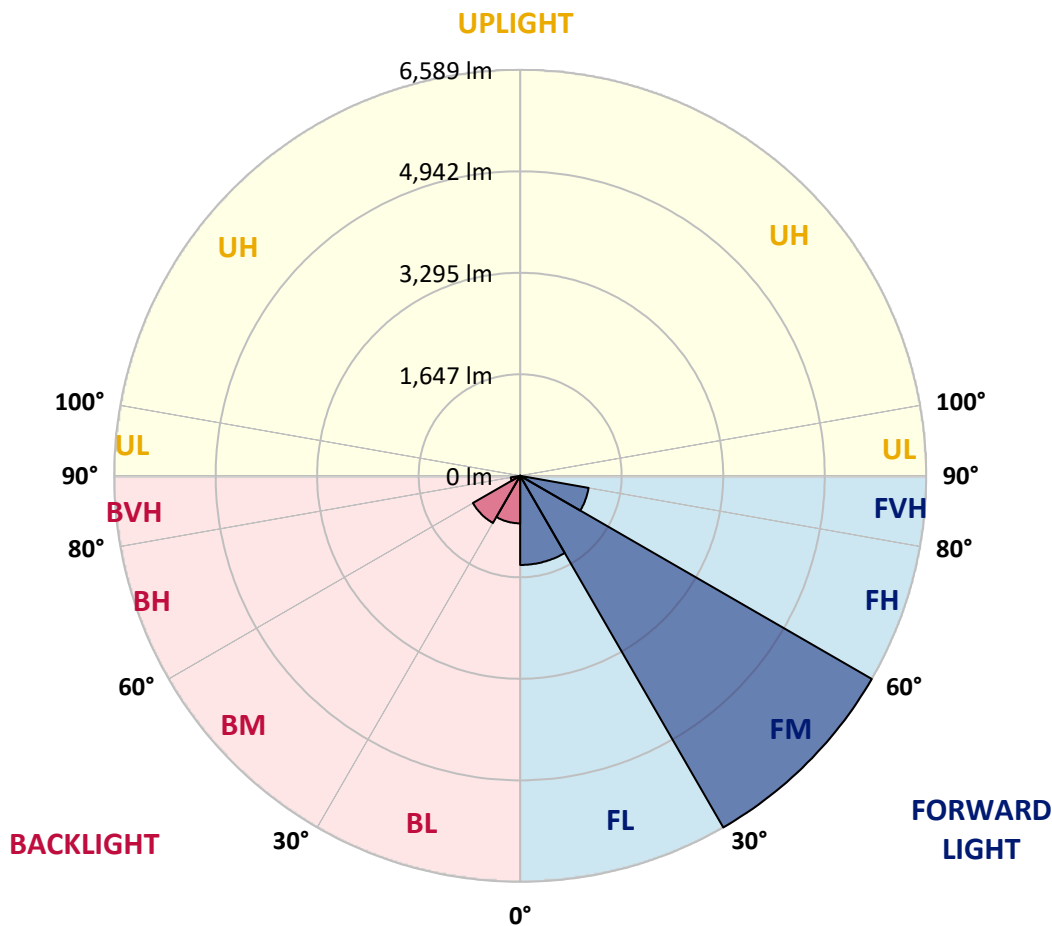


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1446.8	13.2			
FM (30°-60°)	6589.2	60.0			
FH (60°-80°)	1127.5	10.3			G1/1800
FVH (80°-90°)	6.5	0.1			G0/10
BL (0°-30°)	771.5	7.0	B2/1000		
BM (30°-60°)	884.7	8.1	B1/1000		
BH (60°-80°)	155.8	1.4	B1/500		G1/500
BVH (80°-90°)	6.1	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°	3946.7	3946.7	3946.7	3946.7	3946.7	3946.7	3946.7	3946.7	3946.7	3946.7	3946.7
2.5°	3926.2	3891.4	3926.2	3930.3	3954.9	3977.4	3963.1	3995.8	3977.4	3956.9	3950.8
5°	3608.9	3656.0	3658.1	3731.8	3715.4	3850.5	3909.9	3893.5	3993.8	3987.6	3973.3
7.5°	3324.4	3306.0	3330.5	3416.5	3525.0	3680.6	3766.6	3764.5	3907.8	4010.2	3999.9
10°	3060.3	3058.3	3109.5	3177.0	3269.1	3432.9	3551.6	3611.0	3834.1	3989.7	4012.2
12.5°	2882.2	2874.1	2929.3	2984.6	3129.9	3256.8	3408.3	3437.0	3692.9	3918.0	3954.9
15°	2765.6	2784.0	2788.1	2894.5	2986.6	3154.5	3273.2	3332.6	3627.4	3860.7	4002.0
17.5°	2745.1	2769.7	2771.7	2859.7	2958.0	3099.2	3203.6	3283.5	3572.1	3889.4	4004.0
20°	2786.0	2771.7	2784.0	2839.3	2935.5	3070.6	3222.1	3248.7	3553.7	3903.7	4026.5
22.5°	2902.7	2898.6	2867.9	2912.9	2980.5	3121.7	3265.0	3306.0	3606.9	3977.4	4045.0
25°	3031.7	3054.2	3025.5	3019.4	3066.5	3205.7	3396.0	3449.3	3785.0	4110.5	4102.3
27.5°	3273.2	3250.7	3250.7	3222.1	3209.8	3277.3	3537.3	3625.3	3983.6	4282.4	4167.8
30°	3504.5	3529.1	3510.7	3520.9	3439.0	3432.9	3737.9	3846.4	4335.6	4544.4	4307.0
32.5°	3871.0	3838.2	3868.9	3842.3	3733.8	3623.3	4010.2	4122.8	4761.4	4845.4	4515.8
35°	4176.0	4161.6	4292.7	4288.6	4112.5	4004.0	4298.8	4466.7	5058.3	5205.6	4761.4
37.5°	4609.9	4583.3	4732.8	4804.4	4646.8	4485.1	4712.3	4906.8	5334.6	5494.3	5013.2
40°	5056.2	5123.8	5324.4	5443.1	5275.2	5060.3	5217.9	5277.3	5518.8	5682.6	5185.2
42.5°	5621.2	5719.4	5924.2	6026.5	6012.2	5778.8	5731.7	5729.7	5651.9	5629.4	5312.1
45°	6163.7	6126.8	6442.1	6665.2	6845.3	6777.8	6227.1	6165.7	5862.7	5709.2	5344.8
47.5°	6401.1	6388.8	6603.8	7000.9	7615.0	7698.9	6947.7	6710.2	6218.9	6044.9	5522.9
50°	6094.1	6157.5	6370.4	6810.5	7752.2	8392.9	7832.0	7512.7	6634.5	6454.3	5944.6
52.5°	5091.0	5134.0	5336.6	5895.5	7285.4	8802.3	8679.5	8495.2	7398.0	7099.2	6679.5
54°	4186.2	4300.8	4411.4	4972.3	6454.3	8575.1	9144.2	9002.9	7895.5	7635.5	7142.1
55°	3645.8	3713.3	3793.2	4352.0	5879.1	8190.2	9090.9	9103.2	8229.1	7803.3	7453.3
57.5°	2663.2	2710.3	2628.4	2876.1	4036.8	6650.9	8315.1	8646.7	8679.5	8055.1	7643.7
60°	2034.8	2055.2	1963.1	2002.0	2509.7	4564.9	6431.8	6831.0	7830.0	7039.8	6474.8
62.5°	1578.3	1582.4	1580.3	1647.9	1729.8	2685.7	4022.4	4376.6	5398.1	4998.9	4397.1
65°	1162.7	1144.3	1177.1	1381.8	1475.9	1688.8	2118.7	2376.6	2933.4	2476.9	1770.7
67.5°	753.3	759.5	792.2	1027.6	1265.1	1295.8	1304.0	1283.5	1285.5	708.3	444.2
70°	452.4	462.6	452.4	581.4	904.8	929.4	849.5	829.1	646.9	167.9	165.8
72.5°	268.2	253.8	227.2	249.7	376.7	450.4	405.3	403.3	253.8	98.3	98.3
75°	112.6	102.4	83.9	75.7	100.3	96.2	96.2	86.0	67.6	65.5	61.4
77.5°	22.5	22.5	16.4	18.4	24.6	28.7	34.8	34.8	40.9	40.9	38.9
80°	0.0	2.0	6.1	12.3	18.4	26.6	30.7	30.7	34.8	34.8	28.7
82.5°	0.0	2.0	6.1	12.3	16.4	24.6	30.7	30.7	34.8	36.8	30.7
85°	0.0	2.0	6.1	10.2	16.4	20.5	20.5	18.4	14.3	12.3	8.2
87.5°	0.0	0.0	2.0	4.1	2.0	4.1	4.1	4.1	4.1	4.1	4.1
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°	3946.7	3946.7	3946.7	3946.7	3946.7	3946.7	3946.7	3946.7	3946.7	3946.7	3946.7
2.5°	3965.1	3963.1	3914.0	3834.1	3815.7	3748.1	3740.0	3699.0	3721.5	3645.8	3637.6
5°	3932.4	3907.8	3848.4	3797.3	3647.8	3541.4	3457.5	3355.1	3295.7	3306.0	3267.1
7.5°	3979.5	3916.0	3811.6	3633.5	3451.3	3265.0	3164.7	2955.9	2880.2	2767.6	2751.2
10°	3930.3	3883.2	3721.5	3426.8	3175.0	2906.8	2671.4	2440.1	2264.0	2188.3	2171.9
12.5°	3926.2	3844.4	3574.1	3246.6	2882.2	2497.4	2155.5	1866.9	1692.9	1594.6	1572.1
15°	3862.8	3764.5	3408.3	2968.2	2464.6	1985.6	1613.1	1334.7	1201.6	1144.3	1160.7
17.5°	3868.9	3721.5	3242.5	2673.4	2053.2	1457.5	1101.3	958.0	923.2	937.5	937.5
20°	3862.8	3625.3	3041.9	2333.6	1572.1	1011.2	808.6	757.4	779.9	825.0	814.7
22.5°	3830.0	3580.3	2857.7	1975.4	1156.6	749.2	648.9	651.0	685.8	741.0	753.3
25°	3854.6	3480.0	2624.3	1613.1	843.4	597.7	562.9	577.3	614.1	655.1	663.2
27.5°	3836.2	3408.3	2380.7	1252.8	616.2	513.8	511.8	528.1	544.5	575.2	575.2
30°	3856.6	3342.8	2141.2	931.4	507.7	470.8	462.6	474.9	491.3	497.4	495.4
32.5°	3932.4	3293.7	1864.9	696.0	448.3	429.9	429.9	429.9	427.8	436.0	438.1
35°	4098.2	3301.9	1621.3	538.4	409.4	395.1	388.9	380.8	376.7	380.8	382.8
37.5°	4278.3	3297.8	1369.5	458.5	380.8	368.5	354.1	341.9	339.8	343.9	337.8
40°	4358.2	3336.7	1136.1	411.5	354.1	339.8	317.3	307.1	309.1	313.2	309.1
42.5°	4466.7	3349.0	984.6	374.6	329.6	307.1	292.7	280.4	278.4	284.5	282.5
45°	4464.6	3279.4	825.0	354.1	307.1	282.5	264.1	253.8	253.8	257.9	260.0
47.5°	4595.6	3269.1	708.3	335.7	290.7	266.1	243.6	235.4	233.4	233.4	229.3
50°	4900.6	3412.4	618.2	315.2	270.2	247.7	229.3	219.0	210.8	206.8	204.7
52.5°	5496.3	3858.7	548.6	290.7	247.7	229.3	212.9	204.7	194.5	184.2	182.2
54°	6073.6	4319.3	544.5	270.2	229.3	217.0	202.7	198.6	186.3	172.0	167.9
55°	6333.6	4587.4	558.8	253.8	217.0	208.8	196.5	192.4	180.1	163.8	161.7
57.5°	6548.5	4691.8	550.7	210.8	196.5	194.5	184.2	178.1	163.8	141.2	137.2
60°	5271.1	3547.5	395.1	186.3	180.1	176.0	167.9	163.8	145.3	120.8	118.7
62.5°	3330.5	2040.9	251.8	163.8	157.6	151.5	141.2	137.2	120.8	96.2	90.1
65°	1418.6	845.4	169.9	145.3	135.1	124.9	116.7	110.5	96.2	71.6	69.6
67.5°	368.5	300.9	141.2	126.9	112.6	98.3	92.1	81.9	65.5	49.1	47.1
70°	165.8	151.5	118.7	106.4	90.1	75.7	67.6	57.3	43.0	32.8	30.7
72.5°	98.3	96.2	90.1	79.8	67.6	57.3	49.1	38.9	28.7	18.4	18.4
75°	61.4	59.4	61.4	55.3	47.1	43.0	36.8	26.6	16.4	8.2	8.2
77.5°	36.8	36.8	36.8	34.8	32.8	32.8	26.6	16.4	8.2	2.0	2.0
80°	28.7	28.7	30.7	28.7	28.7	28.7	22.5	12.3	4.1	0.0	0.0
82.5°	28.7	30.7	34.8	32.8	28.7	24.6	20.5	12.3	4.1	0.0	0.0
85°	8.2	6.1	10.2	14.3	20.5	18.4	14.3	10.2	4.1	0.0	0.0
87.5°	4.1	4.1	4.1	4.1	2.0	2.0	2.0	2.0	2.0	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)