

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: P459234

Luminaire Tested: **GALN-SA7A-735-U-T4FT-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P459234  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-29)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA7A-735-U-T4FT-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 21367 lumens  
Efficiency: N/A  
Efficacy: 99.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4

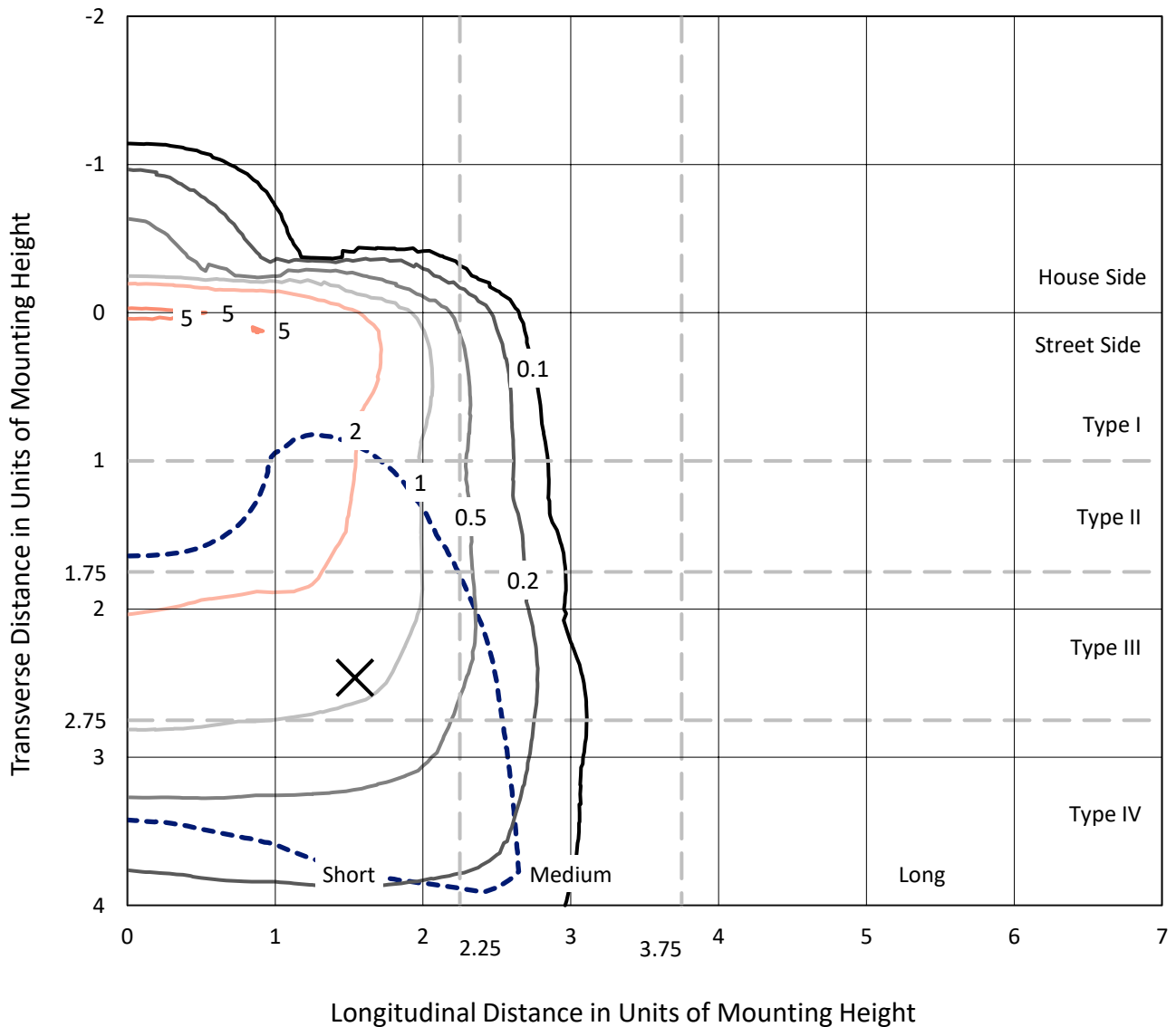
Input Watts (W): 215  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

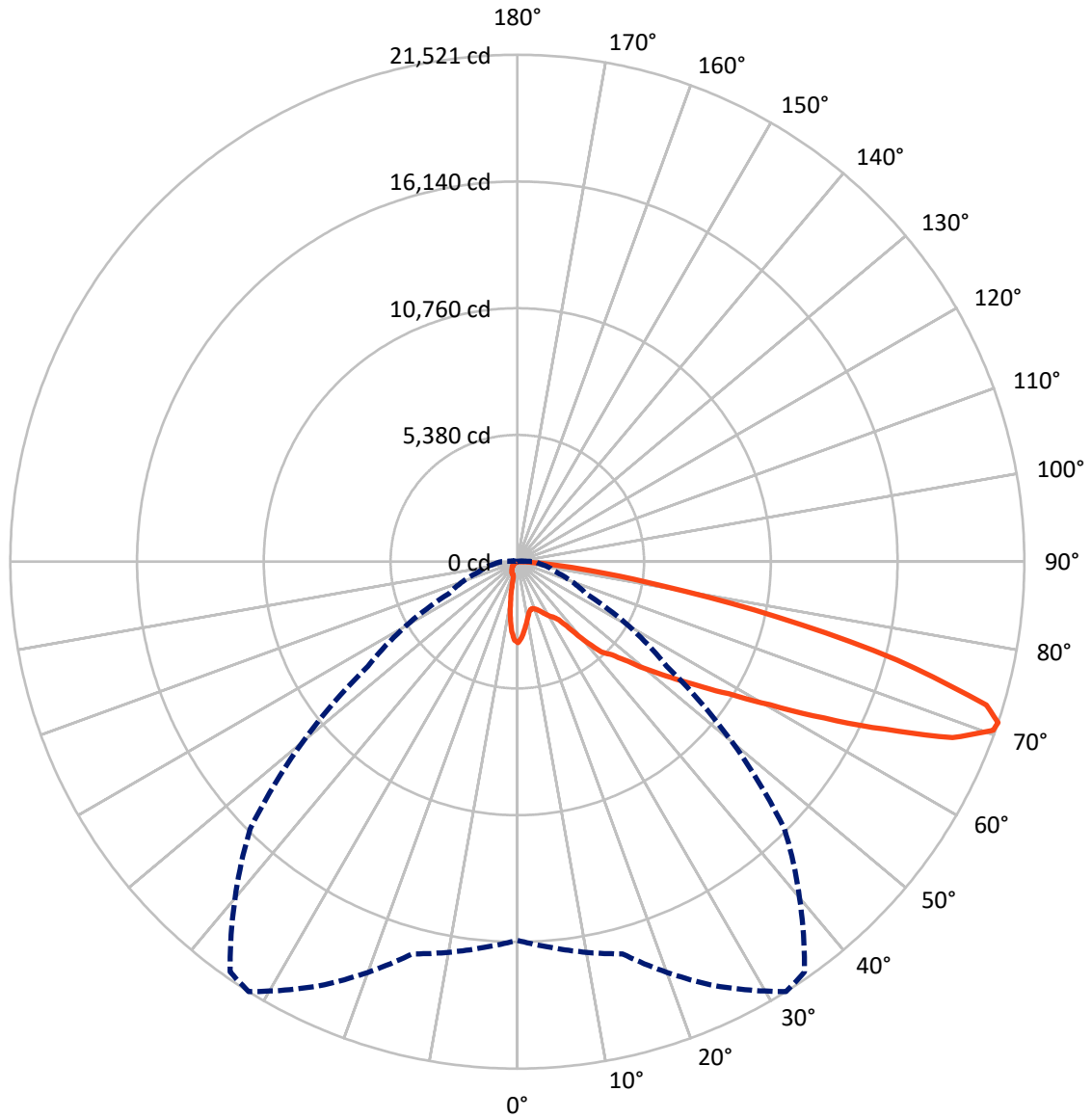
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 32-Deg Lateral    - - - Horizontal Cone Through 71-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1789.7	0.0	1789.7
	% Fixture	8.4	0.0	8.4
<b>Street Side</b>	Lumens	19577.3	0.0	19577.3
	% Fixture	91.6	0.0	91.6
<b>Total</b>	Lumens	21367.0	0.0	21367.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	279.4	1.3
10°-20°	606.4	2.8
20°-30°	943.4	4.4
30°-40°	1571.6	7.4
40°-50°	2923.5	13.7
50°-60°	4693.8	22.0
60°-70°	6313.4	29.5
70°-80°	3745.8	17.5
80°-90°	289.5	1.4
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°	21367.0	100.0
0°-180°	21367.0	100.0



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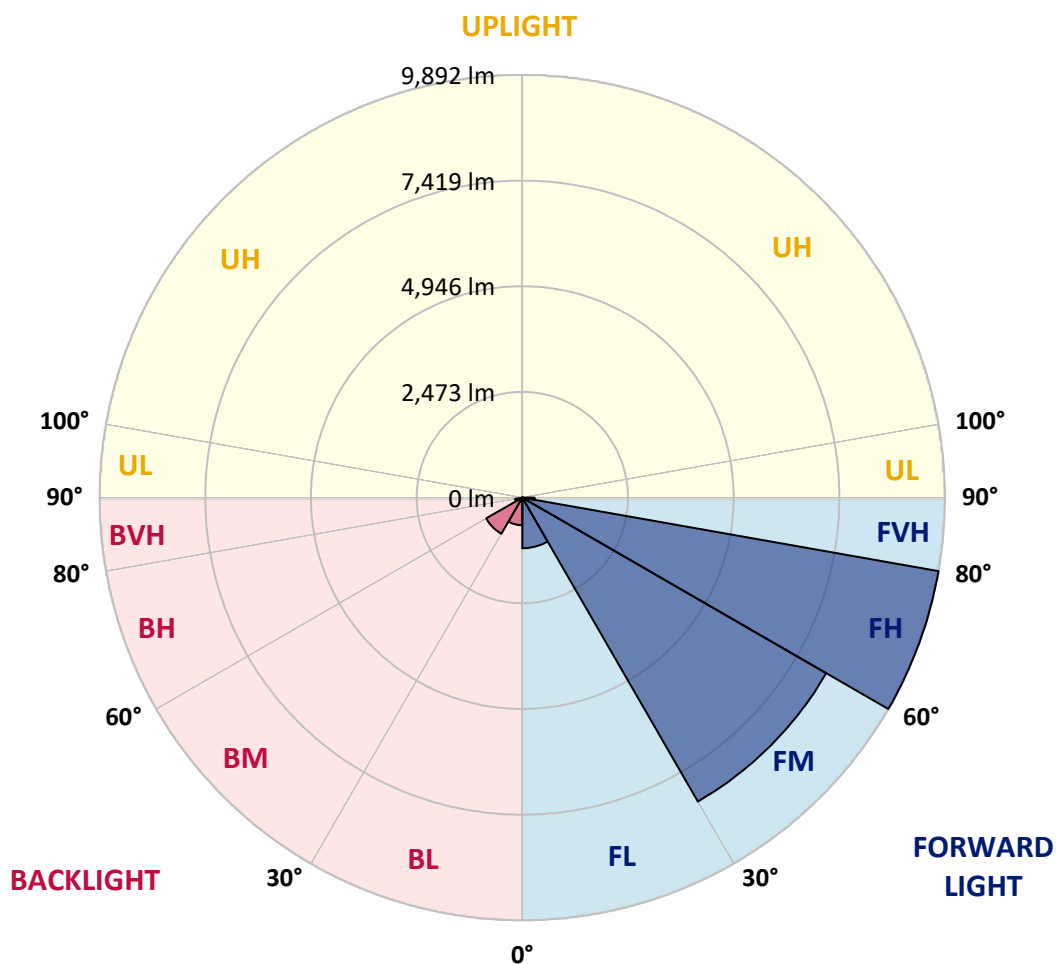
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1184.3	5.5			
FM	(30°-60°)	8212.7	38.4			
FH	(60°-80°)	9891.9	46.3			G4/12000
FVH	(80°-90°)	288.4	1.3			G3/500
BL	(0°-30°)	644.9	3.0	B2/1000		
BM	(30°-60°)	976.3	4.6	B1/1000		
BH	(60°-80°)	167.4	0.8	B1/500		G1/500
BVH	(80°-90°)	1.1	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G4**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	32°	35°	45°	55°	65°	75°	85°
0°	3436.1	3436.1	3436.1	3436.1	3436.1	3436.1	3436.1	3436.1	3436.1	3436.1	3436.1
2.5°	3186.8	3219.6	3214.7	3226.2	3254.1	3265.6	3296.7	3331.2	3378.7	3411.5	3432.9
5°	2853.9	2878.5	2881.8	2939.2	2967.1	2998.2	3090.1	3190.1	3301.7	3390.2	3449.3
7.5°	2498.0	2511.1	2537.3	2612.8	2683.3	2714.5	2853.9	3027.7	3203.2	3368.9	3475.5
10°	2204.4	2219.1	2266.7	2347.1	2412.7	2453.7	2647.2	2865.4	3111.4	3357.4	3513.2
12.5°	2037.1	2045.3	2063.3	2135.5	2219.1	2263.4	2471.7	2721.0	3037.6	3362.3	3577.2
15°	2025.6	2022.3	2001.0	2030.5	2106.0	2151.9	2355.3	2622.6	2972.0	3378.7	3652.6
17.5°	2086.3	2078.1	2027.2	2027.2	2089.6	2127.3	2306.1	2570.1	2939.2	3416.5	3759.3
20°	2179.8	2166.7	2083.0	2076.4	2137.1	2176.5	2335.6	2573.4	2945.7	3487.0	3902.0
22.5°	2297.9	2283.1	2156.8	2160.1	2225.7	2265.1	2420.9	2632.5	2986.7	3573.9	4054.5
25°	2452.0	2435.6	2286.4	2279.8	2348.7	2383.2	2547.2	2737.4	3044.1	3682.2	4254.6
27.5°	2657.1	2622.6	2443.8	2434.0	2507.8	2552.1	2699.7	2878.5	3145.8	3831.4	4523.6
30°	2826.0	2788.3	2617.7	2591.5	2670.2	2704.6	2857.2	3068.8	3345.9	4092.2	4895.9
32.5°	3047.4	2991.7	2791.6	2722.7	2806.3	2850.6	3085.2	3423.0	3642.8	4367.8	5338.7
35°	3546.0	3511.6	3267.2	3026.1	3021.2	3077.0	3421.4	3780.6	3947.9	4797.5	5942.3
37.5°	4259.5	4234.9	3975.8	3652.6	3559.2	3532.9	3829.8	4174.2	4435.0	5387.9	6644.3
40°	5087.8	5030.4	4792.6	4518.7	4397.3	4320.2	4312.0	4759.8	5071.4	6190.0	7375.8
42.5°	5681.5	5576.6	5287.9	5268.2	5242.0	5161.6	4928.7	5615.9	5893.1	7052.7	8158.2
45°	6304.8	6145.7	5716.0	5642.2	5632.3	5627.4	5860.3	6629.6	6788.6	7987.6	8961.9
47.5°	6788.6	6662.4	6309.7	6276.9	6317.9	6429.4	7092.1	7705.5	7672.7	8820.8	9636.0
50°	7433.2	7338.1	6946.1	7008.4	7220.0	7402.1	8481.3	8878.2	8399.3	9476.9	10126.4
52.5°	8194.3	8018.8	7654.7	7823.6	8148.3	8451.8	9955.8	9905.0	8909.4	9970.6	10492.1
55°	8853.6	8729.0	8604.3	8779.8	9265.3	9644.2	11287.6	10674.2	9280.1	10367.5	10652.9
57.5°	9968.9	9939.4	9811.5	9990.2	10579.1	10972.7	12480.0	11271.2	9517.9	10574.1	10464.3
60°	11618.9	11571.4	11333.5	11561.5	12329.1	12947.5	13578.9	11807.6	9572.0	10493.8	9921.4
62.5°	13603.5	13441.2	13237.8	13574.0	14627.0	14899.3	14613.9	12125.7	9370.3	9854.1	8612.5
65°	15456.9	15289.6	15294.5	16003.1	17149.6	17334.9	15821.0	12078.2	8779.8	8251.7	6352.4
67.5°	16875.7	16847.8	17047.9	18430.5	19929.7	19801.7	16900.3	11366.3	7029.8	5348.6	3375.5
70°	16947.8	17002.0	17576.0	19910.0	21432.0	21228.7	16808.4	9239.1	4382.5	2460.2	1330.2
71°	16075.3	16439.4	17233.2	19864.0	21520.6	21256.5	16034.3	7738.3	3214.7	1715.6	959.5
72.5°	13698.7	13890.6	15606.2	18694.6	20820.3	20256.0	14071.0	5424.0	2058.4	1049.7	551.1
75°	7544.8	8017.1	10451.1	14666.4	16652.6	16157.3	9170.2	2576.7	1026.7	574.1	228.0
77.5°	3592.0	3500.1	5099.3	8722.4	11290.9	11264.7	4620.3	1144.8	598.7	388.7	114.8
80°	1026.7	1154.7	1951.8	4146.3	6268.7	6337.6	1774.7	552.7	415.0	303.4	59.0
82.5°	310.0	316.6	716.8	1833.7	3118.0	2939.2	665.9	282.1	298.5	241.1	34.4
85°	54.1	67.2	211.6	646.2	1189.1	902.1	167.3	134.5	196.8	159.1	19.7
87.5°	3.3	4.9	70.5	73.8	105.0	60.7	29.5	19.7	42.6	42.6	11.5
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°	3436.1	3436.1	3436.1	3436.1	3436.1	3436.1	3436.1	3436.1	3436.1	3436.1	3436.1
2.5°	3447.6	3457.5	3450.9	3436.1	3411.5	3382.0	3342.7	3309.9	3282.0	3267.2	3285.3
5°	3469.0	3482.1	3449.3	3375.5	3263.9	3142.6	3004.8	2898.2	2814.5	2788.3	2778.4
7.5°	3501.8	3510.0	3421.4	3257.4	3021.2	2734.2	2483.2	2271.6	2107.6	2058.4	1986.2
10°	3544.4	3539.5	3372.2	3067.1	2652.1	2220.8	1832.1	1543.4	1325.3	1246.5	1240.0
12.5°	3610.0	3583.8	3309.9	2808.0	2212.6	1648.4	1167.8	913.6	775.8	729.9	720.0
15°	3692.0	3629.7	3211.4	2504.5	1694.3	1064.5	720.0	642.9	624.9	621.6	618.3
17.5°	3788.8	3690.4	3081.9	2132.2	1190.8	690.5	601.9	600.3	601.9	598.7	597.0
20°	3920.0	3754.3	2927.7	1691.0	787.3	582.3	574.1	574.1	575.7	574.1	574.1
22.5°	4059.4	3829.8	2737.4	1290.8	593.7	552.7	551.1	554.4	557.7	556.0	556.0
25°	4231.6	3928.2	2486.5	884.0	531.4	528.1	529.8	536.3	542.9	544.5	542.9
27.5°	4480.9	4049.6	2217.5	608.5	487.1	490.4	506.8	523.2	533.1	534.7	534.7
30°	4761.4	4184.1	1866.5	493.7	451.0	451.0	470.7	501.9	523.2	526.5	528.1
32.5°	5122.2	4339.9	1477.8	444.5	416.6	413.3	431.4	469.1	508.5	519.9	519.9
35°	5568.4	4523.6	1098.9	413.3	392.0	383.8	393.6	424.8	475.6	508.5	511.7
37.5°	6091.6	4697.4	803.7	385.4	369.0	357.6	364.1	388.7	429.7	478.9	492.0
40°	6575.4	4851.6	600.3	362.5	346.1	337.9	342.8	354.3	388.7	434.6	442.8
42.5°	7103.6	4971.3	477.3	337.9	323.1	319.8	319.8	324.8	347.7	374.0	375.6
45°	7630.1	5014.0	400.2	308.4	298.5	301.8	300.2	296.9	306.7	303.4	303.4
47.5°	8005.6	4963.1	331.3	280.5	280.5	285.4	277.2	265.7	260.8	241.1	242.7
50°	8263.2	4777.8	272.3	247.7	260.8	267.3	250.9	232.9	214.9	193.5	188.6
52.5°	8369.8	4448.1	223.1	205.0	231.3	239.5	219.8	198.5	170.6	152.5	147.6
55°	8300.9	4041.4	185.3	167.3	195.2	205.0	185.3	160.7	129.6	109.9	106.6
57.5°	7997.4	3555.9	157.5	132.9	155.8	162.4	149.3	123.0	91.8	72.2	72.2
60°	7472.6	3054.0	127.9	105.0	116.5	126.3	113.2	88.6	62.3	44.3	41.0
62.5°	6408.1	2479.9	103.3	82.0	82.0	90.2	78.7	64.0	39.4	23.0	21.3
65°	4626.9	1700.9	82.0	60.7	59.0	59.0	49.2	42.6	23.0	9.8	6.6
67.5°	2514.4	959.5	65.6	45.9	41.0	39.4	31.2	24.6	9.8	1.6	0.0
70°	989.0	369.0	50.8	31.2	26.2	24.6	16.4	11.5	6.6	0.0	0.0
71°	670.8	254.2	44.3	26.2	21.3	18.0	13.1	9.8	4.9	0.0	0.0
72.5°	383.8	157.5	34.4	19.7	16.4	13.1	9.8	6.6	4.9	0.0	0.0
75°	167.3	80.4	21.3	14.8	11.5	8.2	6.6	4.9	1.6	0.0	0.0
77.5°	85.3	44.3	14.8	11.5	6.6	4.9	3.3	1.6	0.0	0.0	0.0
80°	47.6	23.0	9.8	6.6	4.9	3.3	1.6	1.6	0.0	0.0	0.0
82.5°	26.2	13.1	4.9	3.3	1.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	16.4	8.2	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	8.2	3.3	0.0	0.0	0.0	0.0	1.6	1.6	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)