

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: P647029

Luminaire Tested: **GALN-SA6C-835-U-T4FT-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647029  
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-SA6C-835-U-T4FT-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 3500K, 1050mA 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: 23505.7 lumens  
Efficiency: N/A  
Efficacy: 73.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4

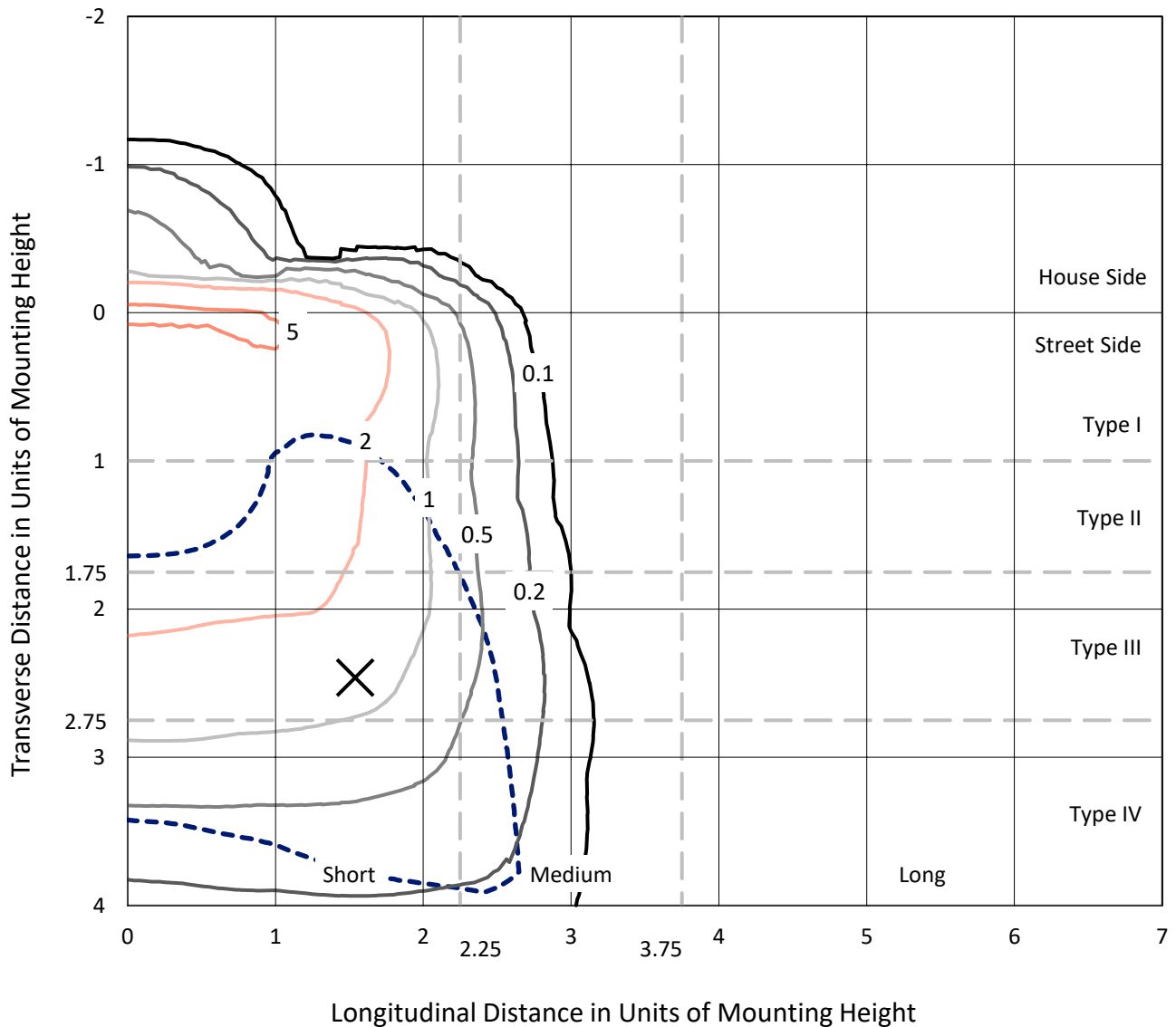
Input Watts (W): 321  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

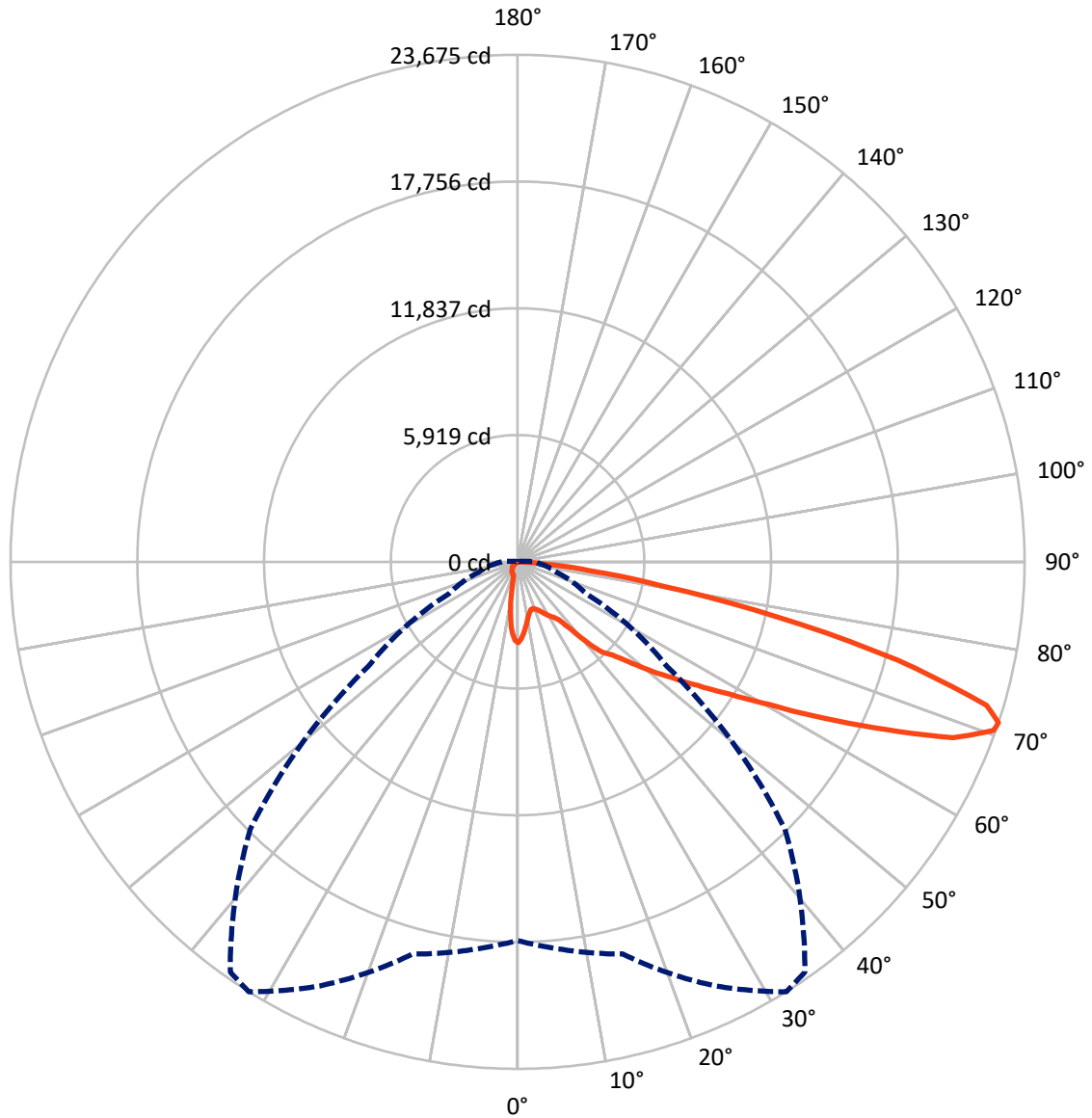
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 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	1968.8	0.0	1968.8
	% Fixture	8.4	0.0	8.4
<b>Street Side</b>	Lumens	21536.8	0.0	21536.8
	% Fixture	91.6	0.0	91.6
<b>Total</b>	Lumens	23505.7	0.0	23505.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	307.4	1.3
10°-20°	667.1	2.8
20°-30°	1037.8	4.4
30°-40°	1729.0	7.4
40°-50°	3216.2	13.7
50°-60°	5163.7	22.0
60°-70°	6945.4	29.5
70°-80°	4120.8	17.5
80°-90°	318.5	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°	23505.7	100.0
0°-180°	23505.7	100.0

**Coefficient of Utilization**

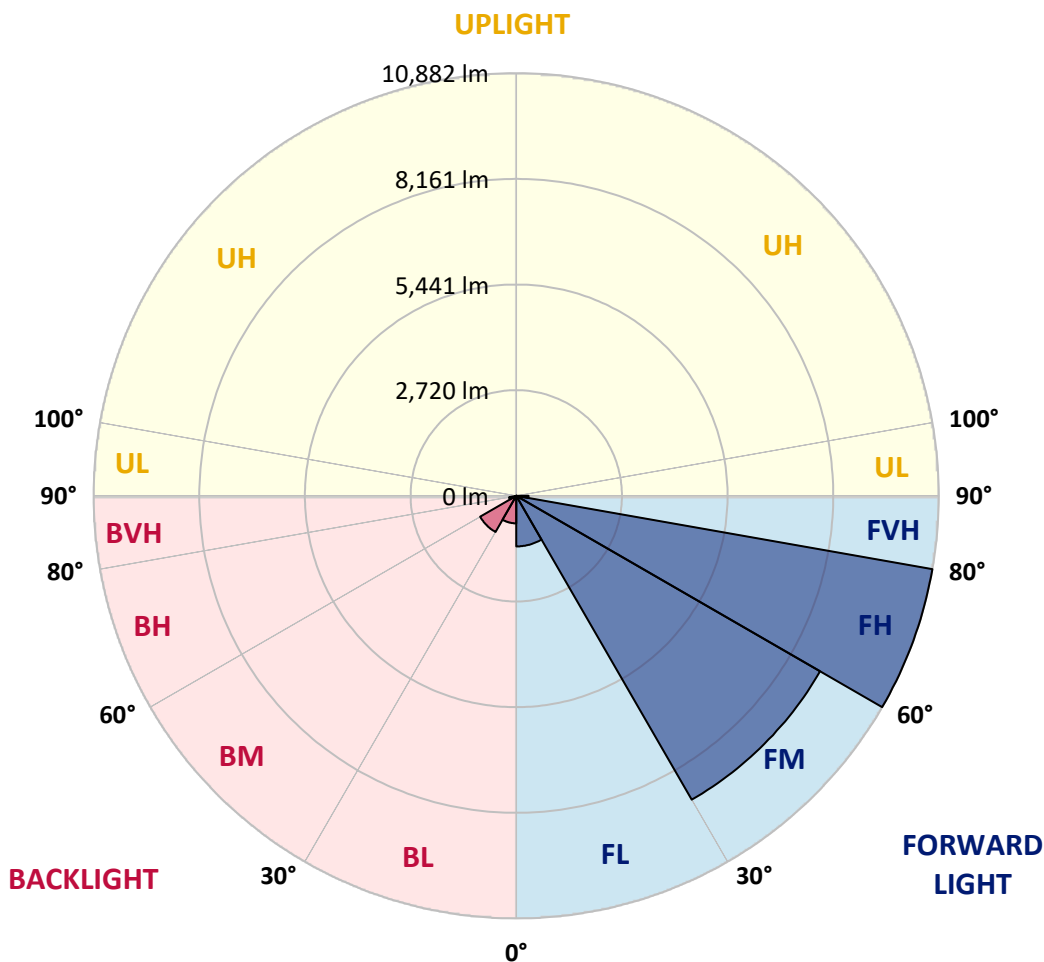


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1302.8	5.5			
FM (30°-60°)	9034.7	38.4			
FH (60°-80°)	10882.0	46.3			G4/12000
FVH (80°-90°)	317.3	1.3			G3/500
BL (0°-30°)	709.4	3.0	B2/1000		
BM (30°-60°)	1074.1	4.6	B2/2500		
BH (60°-80°)	184.1	0.8	B1/500		G1/500
BVH (80°-90°)	1.2	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°	3780.1	3780.1	3780.1	3780.1	3780.1	3780.1	3780.1	3780.1	3780.1	3780.1	3780.1
2.5°	3505.8	3541.9	3536.5	3549.1	3579.8	3592.4	3626.7	3664.6	3716.9	3753.0	3776.5
5°	3139.5	3166.6	3170.2	3233.4	3264.0	3298.3	3399.4	3509.4	3632.1	3729.6	3794.5
7.5°	2748.0	2762.4	2791.3	2874.3	2951.9	2986.2	3139.5	3330.8	3523.9	3706.1	3823.4
10°	2425.0	2441.2	2493.6	2582.0	2654.1	2699.3	2912.2	3152.2	3422.8	3693.5	3864.9
12.5°	2240.9	2250.0	2269.8	2349.2	2441.2	2490.0	2719.1	2993.4	3341.6	3698.9	3935.3
15°	2228.3	2224.7	2201.2	2233.7	2316.7	2367.3	2591.0	2885.1	3269.4	3716.9	4018.3
17.5°	2295.1	2286.1	2230.1	2230.1	2298.7	2340.2	2536.9	2827.4	3233.4	3758.4	4135.5
20°	2397.9	2383.5	2291.5	2284.3	2351.0	2394.3	2569.3	2831.0	3240.6	3836.0	4292.5
22.5°	2527.8	2511.6	2372.7	2376.3	2448.4	2491.8	2663.2	2895.9	3285.7	3931.7	4460.3
25°	2697.5	2679.4	2515.2	2508.0	2583.8	2621.7	2802.1	3011.4	3348.8	4050.7	4680.5
27.5°	2923.0	2885.1	2688.4	2677.6	2758.8	2807.5	2969.9	3166.6	3460.7	4214.9	4976.4
30°	3108.9	3067.4	2879.7	2850.8	2937.4	2975.3	3143.1	3375.9	3680.8	4501.8	5385.9
32.5°	3352.4	3291.1	3071.0	2995.2	3087.2	3135.9	3393.9	3765.6	4007.4	4805.0	5873.1
35°	3901.0	3863.1	3594.2	3329.0	3323.6	3384.9	3763.8	4159.0	4343.1	5277.7	6537.1
37.5°	4685.9	4658.8	4373.7	4018.3	3915.4	3886.5	4213.1	4592.1	4879.0	5927.2	7309.4
40°	5597.0	5533.9	5272.3	4971.0	4837.5	4752.6	4743.6	5236.2	5579.0	6809.5	8114.1
42.5°	6250.2	6134.7	5817.1	5795.5	5766.6	5678.2	5422.0	6178.0	6483.0	7758.7	8974.7
45°	6935.9	6760.8	6288.1	6206.9	6196.1	6190.6	6446.9	7293.1	7468.1	8787.1	9858.9
47.5°	7468.1	7329.2	6941.3	6905.2	6950.3	7073.0	7802.0	8476.8	8440.7	9703.7	10600.5
50°	8177.3	8072.6	7641.4	7709.9	7942.7	8143.0	9330.2	9766.8	9240.0	10425.4	11140.0
52.5°	9014.4	8821.4	8420.9	8606.7	8963.9	9297.7	10952.3	10896.4	9801.1	10968.6	11542.3
55°	9739.8	9602.6	9465.5	9658.6	10192.7	10609.5	12417.4	11742.6	10208.9	11405.2	11719.2
57.5°	10966.7	10934.3	10793.5	10990.2	11638.0	12071.0	13729.2	12399.4	10470.5	11632.6	11511.7
60°	12781.9	12729.5	12467.9	12718.7	13563.2	14243.4	14938.1	12989.4	10530.1	11544.2	10914.4
62.5°	14965.2	14786.5	14562.8	14932.7	16091.0	16390.5	16076.6	13339.4	10308.1	10840.4	9474.5
65°	17004.0	16820.0	16825.4	17604.9	18866.1	19070.0	17404.6	13287.1	9658.6	9077.6	6988.2
67.5°	18564.8	18534.1	18754.3	20275.3	21924.5	21783.7	18591.9	12504.0	7733.4	5883.9	3713.3
70°	18644.2	18703.7	19335.2	21902.8	23577.2	23353.4	18490.8	10163.8	4821.2	2706.5	1463.3
71°	17684.3	18084.8	18958.2	21852.3	23674.6	23384.1	17639.2	8512.9	3536.5	1887.3	1055.6
72.5°	15069.8	15280.9	17168.2	20565.8	22904.2	22283.5	15479.4	5966.9	2264.4	1154.8	606.3
75°	8300.0	8819.6	11497.2	16134.3	18319.4	17774.5	10088.0	2834.6	1129.5	631.5	250.8
77.5°	3951.5	3850.5	5609.6	9595.4	12421.0	12392.1	5082.8	1259.5	658.6	427.6	126.3
80°	1129.5	1270.3	2147.1	4561.4	6896.2	6971.9	1952.3	608.1	456.5	333.8	65.0
82.5°	341.0	348.2	788.5	2017.2	3430.0	3233.4	732.6	310.4	328.4	265.2	37.9
85°	59.5	74.0	232.8	710.9	1308.2	992.4	184.0	148.0	216.5	175.0	21.7
87.5°	3.6	5.4	77.6	81.2	115.5	66.8	32.5	21.7	46.9	46.9	12.6
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°	3780.1	3780.1	3780.1	3780.1	3780.1	3780.1	3780.1	3780.1	3780.1	3780.1	3780.1
2.5°	3792.7	3803.5	3796.3	3780.1	3753.0	3720.5	3677.2	3641.1	3610.5	3594.2	3614.1
5°	3816.2	3830.6	3794.5	3713.3	3590.6	3457.1	3305.5	3188.2	3096.2	3067.4	3056.5
7.5°	3852.3	3861.3	3763.8	3583.4	3323.6	3007.8	2731.7	2499.0	2318.5	2264.4	2185.0
10°	3899.2	3893.8	3709.7	3374.1	2917.6	2443.0	2015.4	1697.9	1457.9	1371.3	1364.1
12.5°	3971.3	3942.5	3641.1	3089.0	2434.0	1813.3	1284.7	1005.0	853.5	803.0	792.1
15°	4061.6	3993.0	3532.9	2755.2	1863.9	1171.0	792.1	707.3	687.5	683.9	680.3
17.5°	4168.0	4059.8	3390.3	2345.6	1310.0	759.6	662.2	660.4	662.2	658.6	656.8
20°	4312.4	4130.1	3220.7	1860.3	866.1	640.6	631.5	631.5	633.3	631.5	631.5
22.5°	4465.8	4213.1	3011.4	1420.0	653.2	608.1	606.3	609.9	613.5	611.7	611.7
25°	4655.2	4321.4	2735.3	972.6	584.6	581.0	582.8	590.0	597.3	599.1	597.3
27.5°	4929.5	4454.9	2439.4	669.4	535.9	539.5	557.6	575.6	586.4	588.2	588.2
30°	5238.0	4602.9	2053.3	543.1	496.2	496.2	517.9	552.1	575.6	579.2	581.0
32.5°	5634.9	4774.3	1625.7	489.0	458.3	454.7	474.6	516.1	559.4	572.0	572.0
35°	6125.7	4976.4	1208.9	454.7	431.2	422.2	433.1	467.3	523.3	559.4	563.0
37.5°	6701.3	5167.6	884.1	424.0	406.0	393.4	400.6	427.6	472.7	526.9	541.3
40°	7233.6	5337.2	660.4	398.8	380.7	371.7	377.1	389.7	427.6	478.2	487.2
42.5°	7814.6	5468.9	525.1	371.7	355.5	351.9	351.9	357.3	382.5	411.4	413.2
45°	8393.8	5515.8	440.3	339.2	328.4	332.0	330.2	326.6	337.4	333.8	333.8
47.5°	8806.9	5459.9	364.5	308.5	308.5	314.0	304.9	292.3	286.9	265.2	267.0
50°	9090.2	5256.0	299.5	272.5	286.9	294.1	276.1	256.2	236.4	212.9	207.5
52.5°	9207.5	4893.4	245.4	225.5	254.4	263.4	241.8	218.3	187.7	167.8	162.4
55°	9131.7	4445.9	203.9	184.0	214.7	225.5	203.9	176.8	142.5	120.9	117.3
57.5°	8797.9	3911.8	173.2	146.2	171.4	178.6	164.2	135.3	101.0	79.4	79.4
60°	8220.6	3359.7	140.7	115.5	128.1	138.9	124.5	97.4	68.6	48.7	45.1
62.5°	7049.5	2728.1	113.7	90.2	90.2	99.2	86.6	70.4	43.3	25.3	23.5
65°	5090.0	1871.1	90.2	66.8	65.0	65.0	54.1	46.9	25.3	10.8	7.2
67.5°	2766.0	1055.6	72.2	50.5	45.1	43.3	34.3	27.1	10.8	1.8	0.0
70°	1088.0	406.0	55.9	34.3	28.9	27.1	18.0	12.6	7.2	0.0	0.0
71°	738.0	279.7	48.7	28.9	23.5	19.8	14.4	10.8	5.4	0.0	0.0
72.5°	422.2	173.2	37.9	21.7	18.0	14.4	10.8	7.2	5.4	0.0	0.0
75°	184.0	88.4	23.5	16.2	12.6	9.0	7.2	5.4	1.8	0.0	0.0
77.5°	93.8	48.7	16.2	12.6	7.2	5.4	3.6	1.8	0.0	0.0	0.0
80°	52.3	25.3	10.8	7.2	5.4	3.6	1.8	1.8	0.0	0.0	0.0
82.5°	28.9	14.4	5.4	3.6	1.8	0.0	0.0	0.0	0.0	0.0	0.0
85°	18.0	9.0	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	9.0	3.6	0.0	0.0	0.0	0.0	1.8	1.8	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)