

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: P454536

Luminaire Tested: **GALN-SA5C-827-U-T4FT-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P454536  
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-SA5C-827-U-T4FT-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 80 CRI, 2700K, 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: 18637 lumens  
Efficiency: N/A  
Efficacy: 69.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4

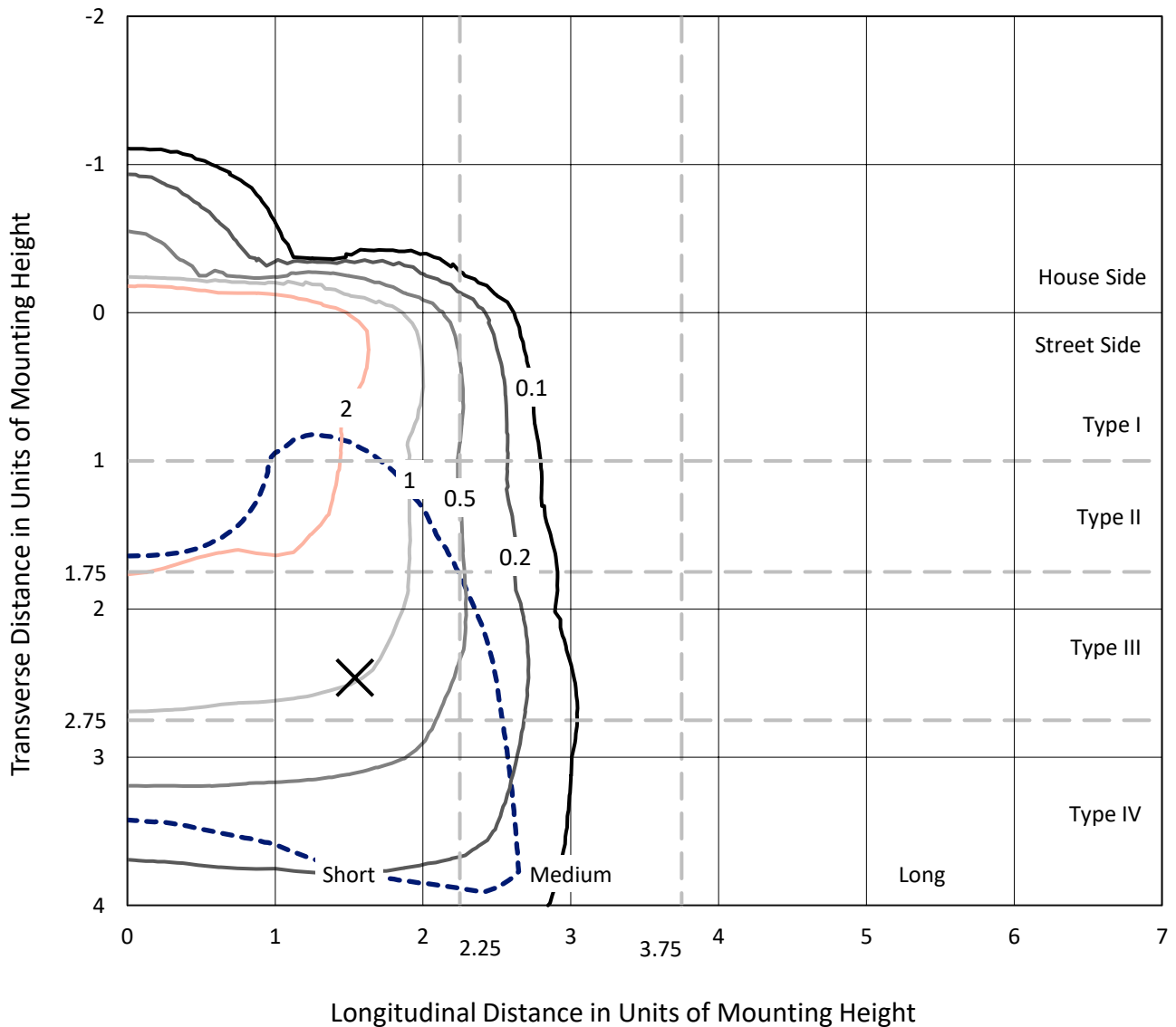
Input Watts (W): 269  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

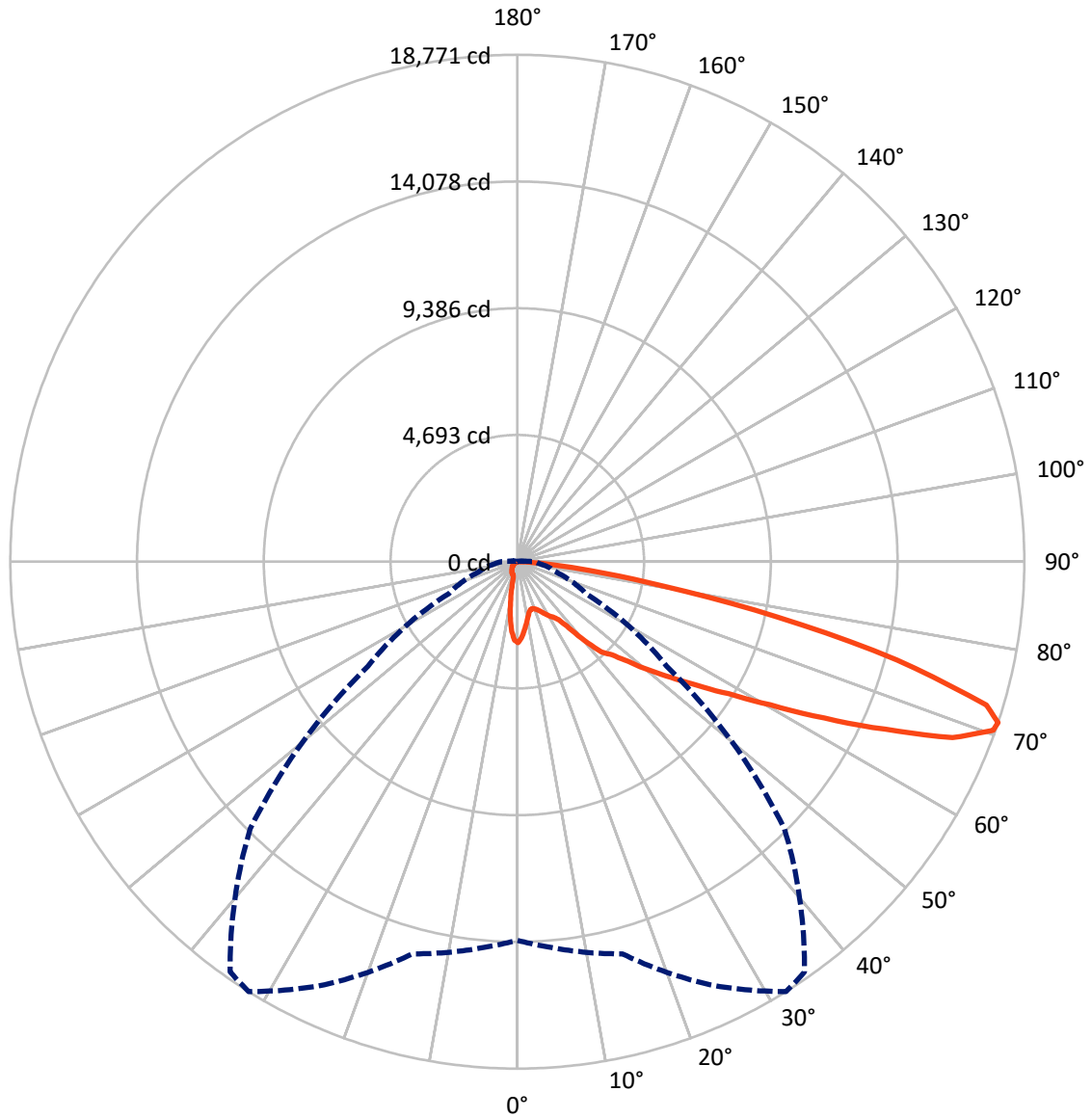
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 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	1561.1	0.0	1561.1
	% Fixture	8.4	0.0	8.4
<b>Street Side</b>	Lumens	17076.0	0.0	17076.0
	% Fixture	91.6	0.0	91.6
<b>Total</b>	Lumens	18637.0	0.0	18637.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	243.7	1.3
10°-20°	528.9	2.8
20°-30°	822.8	4.4
30°-40°	1370.8	7.4
40°-50°	2550.0	13.7
50°-60°	4094.1	22.0
60°-70°	5506.8	29.5
70°-80°	3267.2	17.5
80°-90°	252.5	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°	18637.0	100.0
0°-180°	18637.0	100.0



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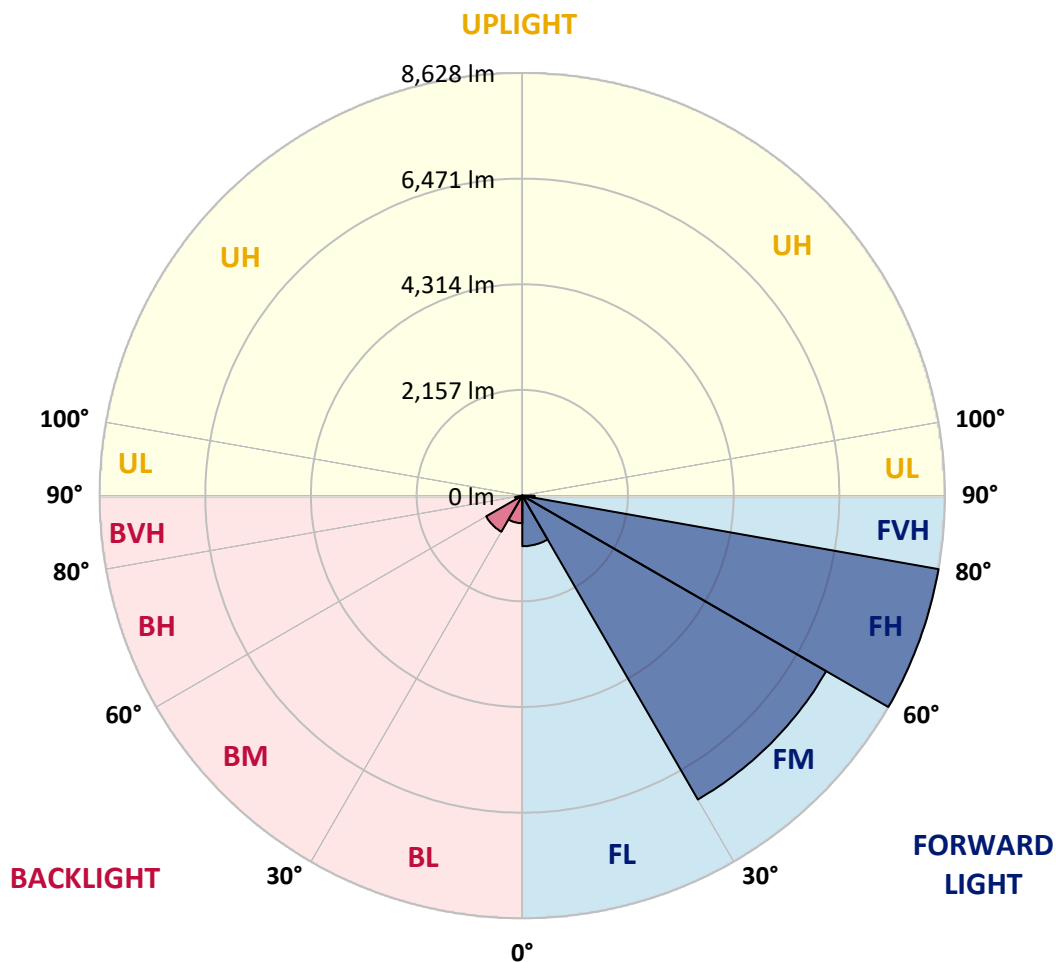
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1033.0	5.5			
FM	(30°-60°)	7163.4	38.4			
FH	(60°-80°)	8628.0	46.3			G4/12000
FVH	(80°-90°)	251.6	1.3			G3/500
BL	(0°-30°)	562.5	3.0	B2/1000		
BM	(30°-60°)	851.6	4.6	B1/1000		
BH	(60°-80°)	146.0	0.8	B1/500		G1/500
BVH	(80°-90°)	1.0	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: 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°	2997.1	2997.1	2997.1	2997.1	2997.1	2997.1	2997.1	2997.1	2997.1	2997.1	2997.1
2.5°	2779.7	2808.3	2804.0	2814.0	2838.3	2848.3	2875.5	2905.6	2947.0	2975.7	2994.3
5°	2489.3	2510.7	2513.6	2563.6	2588.0	2615.1	2695.3	2782.5	2879.8	2957.1	3008.6
7.5°	2178.8	2190.3	2213.1	2279.0	2340.5	2367.7	2489.3	2640.9	2794.0	2938.5	3031.5
10°	1922.7	1935.6	1977.1	2047.2	2104.4	2140.2	2309.0	2499.3	2713.9	2928.5	3064.4
12.5°	1776.8	1784.0	1799.7	1862.6	1935.6	1974.2	2155.9	2373.4	2649.5	2932.7	3120.2
15°	1766.8	1763.9	1745.3	1771.1	1836.9	1877.0	2054.4	2287.5	2592.3	2947.0	3186.0
17.5°	1819.7	1812.6	1768.2	1768.2	1822.6	1855.5	2011.4	2241.8	2563.6	2980.0	3279.0
20°	1901.3	1889.8	1816.9	1811.1	1864.1	1898.4	2037.2	2244.6	2569.4	3041.5	3403.4
22.5°	2004.3	1991.4	1881.2	1884.1	1941.3	1975.7	2111.6	2296.1	2605.1	3117.3	3536.5
25°	2138.8	2124.5	1994.3	1988.5	2048.6	2078.7	2221.7	2387.7	2655.2	3211.7	3711.0
27.5°	2317.6	2287.5	2131.6	2123.0	2187.4	2226.0	2354.8	2510.7	2743.9	3341.9	3945.6
30°	2464.9	2432.0	2283.2	2260.4	2329.0	2359.1	2492.1	2676.7	2918.4	3569.4	4270.4
32.5°	2658.1	2609.4	2434.9	2374.8	2447.8	2486.4	2691.0	2985.7	3177.4	3809.7	4656.6
35°	3093.0	3062.9	2849.8	2639.5	2635.2	2683.8	2984.2	3297.5	3443.5	4184.5	5183.1
37.5°	3715.3	3693.8	3467.8	3186.0	3104.4	3081.5	3340.5	3640.9	3868.4	4699.5	5795.4
40°	4437.7	4387.7	4180.2	3941.3	3835.5	3768.2	3761.1	4151.6	4423.4	5399.1	6433.4
42.5°	4955.6	4864.1	4612.3	4595.1	4572.2	4502.1	4299.0	4898.4	5140.2	6151.6	7115.8
45°	5499.3	5360.5	4985.7	4921.3	4912.7	4908.4	5111.6	5782.5	5921.3	6967.1	7816.8
47.5°	5921.3	5811.1	5503.5	5474.9	5510.7	5608.0	6185.9	6721.0	6692.4	7693.8	8404.8
50°	6483.5	6400.5	6058.6	6113.0	6297.5	6456.3	7397.7	7743.9	7326.1	8266.0	8832.6
52.5°	7147.3	6994.2	6676.6	6824.0	7107.3	7371.9	8683.8	8639.4	7771.1	8696.7	9151.6
55°	7722.4	7613.7	7505.0	7658.0	8081.5	8412.0	9845.4	9310.4	8094.4	9042.9	9291.8
57.5°	8695.2	8669.5	8557.9	8713.8	9227.4	9570.8	10885.5	9831.1	8301.8	9223.1	9127.3
60°	10134.4	10092.9	9885.5	10084.3	10753.9	11293.2	11844.0	10298.9	8349.0	9153.0	8653.7
62.5°	11865.5	11723.8	11546.4	11839.7	12758.1	12995.6	12746.7	10576.5	8173.1	8595.1	7512.1
65°	13482.0	13336.1	13340.4	13958.4	14958.4	15120.1	13799.6	10535.0	7658.0	7197.4	5540.7
67.5°	14719.5	14695.2	14869.7	16075.7	17383.3	17271.7	14741.0	9914.1	6131.6	4665.2	2944.2
70°	14782.5	14829.7	15330.4	17366.1	18693.7	18516.3	14660.9	8058.6	3822.6	2145.9	1160.2
71°	14021.4	14339.0	15031.4	17326.1	18771.0	18540.7	13985.6	6749.6	2804.0	1496.4	836.9
72.5°	11948.4	12115.8	13612.2	16306.1	18160.1	17668.0	12273.2	4731.0	1795.4	915.6	480.7
75°	6580.8	6992.8	9115.8	12792.5	14524.9	14092.9	7998.5	2247.5	895.6	500.7	198.9
77.5°	3133.0	3052.9	4447.8	7608.0	9848.3	9825.4	4030.0	998.6	522.2	339.1	100.1
80°	895.6	1007.1	1702.4	3616.6	5467.8	5527.9	1547.9	482.1	361.9	264.7	51.5
82.5°	270.4	276.1	625.2	1599.4	2719.6	2563.6	580.8	246.1	260.4	210.3	30.0
85°	47.2	58.7	184.5	563.7	1037.2	786.8	145.9	117.3	171.7	138.8	17.2
87.5°	2.9	4.3	61.5	64.4	91.6	52.9	25.8	17.2	37.2	37.2	10.0
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°	2997.1	2997.1	2997.1	2997.1	2997.1	2997.1	2997.1	2997.1	2997.1	2997.1	2997.1
2.5°	3007.1	3015.7	3010.0	2997.1	2975.7	2949.9	2915.6	2887.0	2862.6	2849.8	2865.5
5°	3025.7	3037.2	3008.6	2944.2	2846.9	2741.0	2620.9	2527.9	2454.9	2432.0	2423.4
7.5°	3054.3	3061.5	2984.2	2841.2	2635.2	2384.8	2165.9	1981.4	1838.3	1795.4	1732.5
10°	3091.5	3087.2	2941.3	2675.2	2313.3	1937.0	1598.0	1346.2	1155.9	1087.3	1081.5
12.5°	3148.8	3125.9	2887.0	2449.2	1929.9	1437.8	1018.6	796.8	676.7	636.6	628.0
15°	3220.3	3165.9	2801.1	2184.5	1477.8	928.5	628.0	560.8	545.1	542.2	539.3
17.5°	3304.7	3218.9	2688.1	1859.8	1038.6	602.3	525.0	523.6	525.0	522.2	520.7
20°	3419.1	3274.7	2553.6	1475.0	686.7	507.9	500.7	500.7	502.1	500.7	500.7
22.5°	3540.8	3340.5	2387.7	1125.9	517.9	482.1	480.7	483.5	486.4	485.0	485.0
25°	3691.0	3426.3	2168.8	771.1	463.5	460.7	462.1	467.8	473.5	475.0	473.5
27.5°	3908.4	3532.2	1934.2	530.8	424.9	427.8	442.1	456.4	464.9	466.4	466.4
30°	4153.1	3649.5	1628.0	430.6	393.4	393.4	410.6	437.8	456.4	459.2	460.7
32.5°	4467.8	3785.4	1289.0	387.7	363.4	360.5	376.2	409.2	443.5	453.5	453.5
35°	4856.9	3945.6	958.5	360.5	341.9	334.8	343.3	370.5	414.9	443.5	446.3
37.5°	5313.3	4097.3	701.0	336.2	321.9	311.9	317.6	339.1	374.8	417.7	429.2
40°	5735.3	4231.7	523.6	316.2	301.9	294.7	299.0	309.0	339.1	379.1	386.3
42.5°	6196.0	4336.2	416.3	294.7	281.8	279.0	279.0	283.3	303.3	326.2	327.6
45°	6655.2	4373.4	349.1	269.0	260.4	263.2	261.8	258.9	267.5	264.7	264.7
47.5°	6982.8	4329.0	289.0	244.6	244.6	248.9	241.8	231.8	227.5	210.3	211.7
50°	7207.4	4167.4	237.5	216.0	227.5	233.2	218.9	203.1	187.4	168.8	164.5
52.5°	7300.4	3879.8	194.6	178.8	201.7	208.9	191.7	173.1	148.8	133.0	128.8
55°	7240.3	3525.0	161.7	145.9	170.2	178.8	161.7	140.2	113.0	95.9	93.0
57.5°	6975.6	3101.6	137.3	115.9	135.9	141.6	130.2	107.3	80.1	62.9	62.9
60°	6517.8	2663.8	111.6	91.6	101.6	110.2	98.7	77.3	54.4	38.6	35.8
62.5°	5589.4	2163.1	90.1	71.5	71.5	78.7	68.7	55.8	34.3	20.0	18.6
65°	4035.7	1483.5	71.5	52.9	51.5	51.5	42.9	37.2	20.0	8.6	5.7
67.5°	2193.1	836.9	57.2	40.1	35.8	34.3	27.2	21.5	8.6	1.4	0.0
70°	862.7	321.9	44.3	27.2	22.9	21.5	14.3	10.0	5.7	0.0	0.0
71°	585.1	221.7	38.6	22.9	18.6	15.7	11.4	8.6	4.3	0.0	0.0
72.5°	334.8	137.3	30.0	17.2	14.3	11.4	8.6	5.7	4.3	0.0	0.0
75°	145.9	70.1	18.6	12.9	10.0	7.2	5.7	4.3	1.4	0.0	0.0
77.5°	74.4	38.6	12.9	10.0	5.7	4.3	2.9	1.4	0.0	0.0	0.0
80°	41.5	20.0	8.6	5.7	4.3	2.9	1.4	1.4	0.0	0.0	0.0
82.5°	22.9	11.4	4.3	2.9	1.4	0.0	0.0	0.0	0.0	0.0	0.0
85°	14.3	7.2	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.2	2.9	0.0	0.0	0.0	0.0	1.4	1.4	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)