

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: P454391

Luminaire Tested: **GALN-SA5C-727-U-T4FT-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454391
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-727-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 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: 21203 lumens
Efficiency: N/A
Efficacy: 78.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

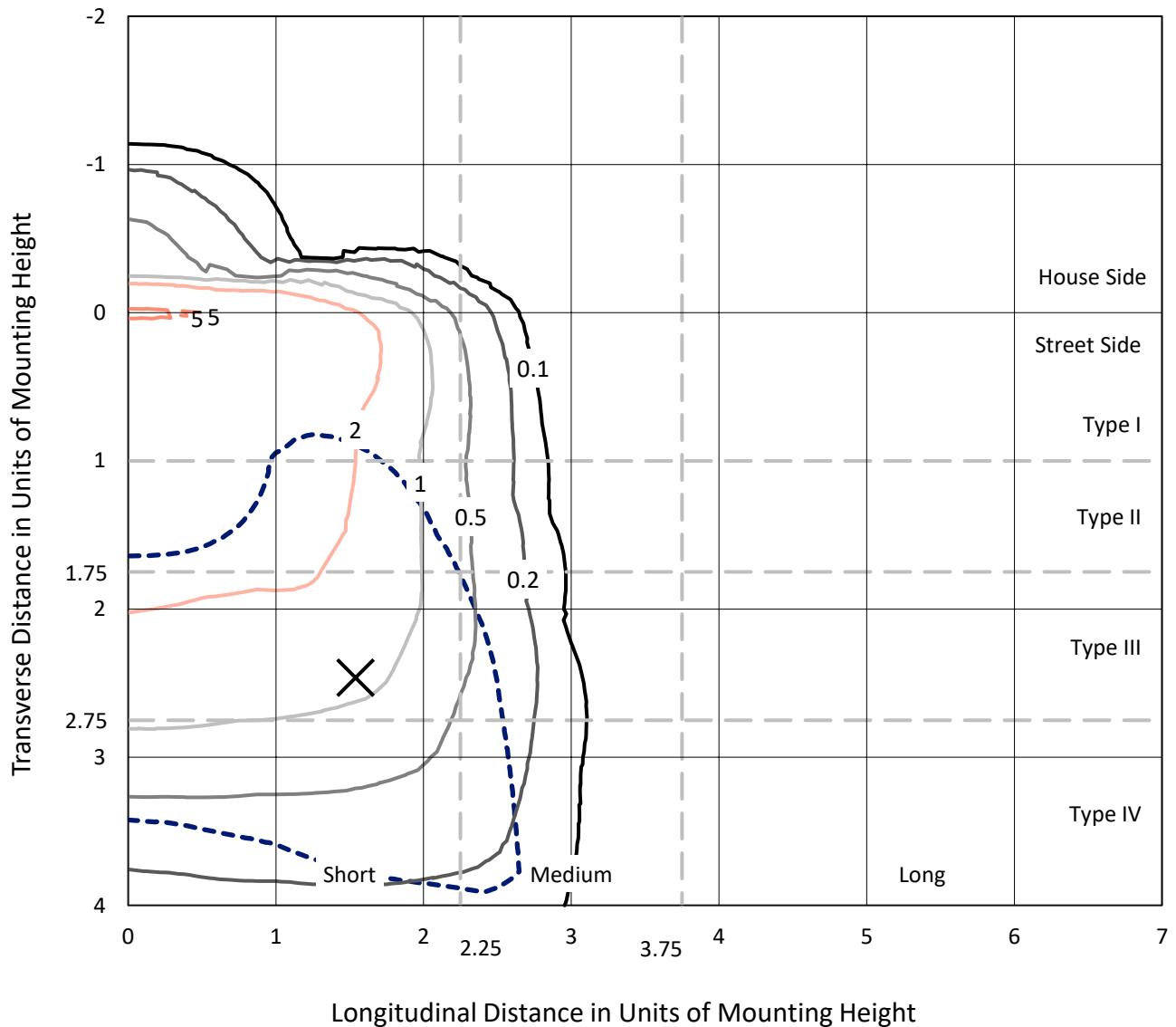
Input Watts (W): 269
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

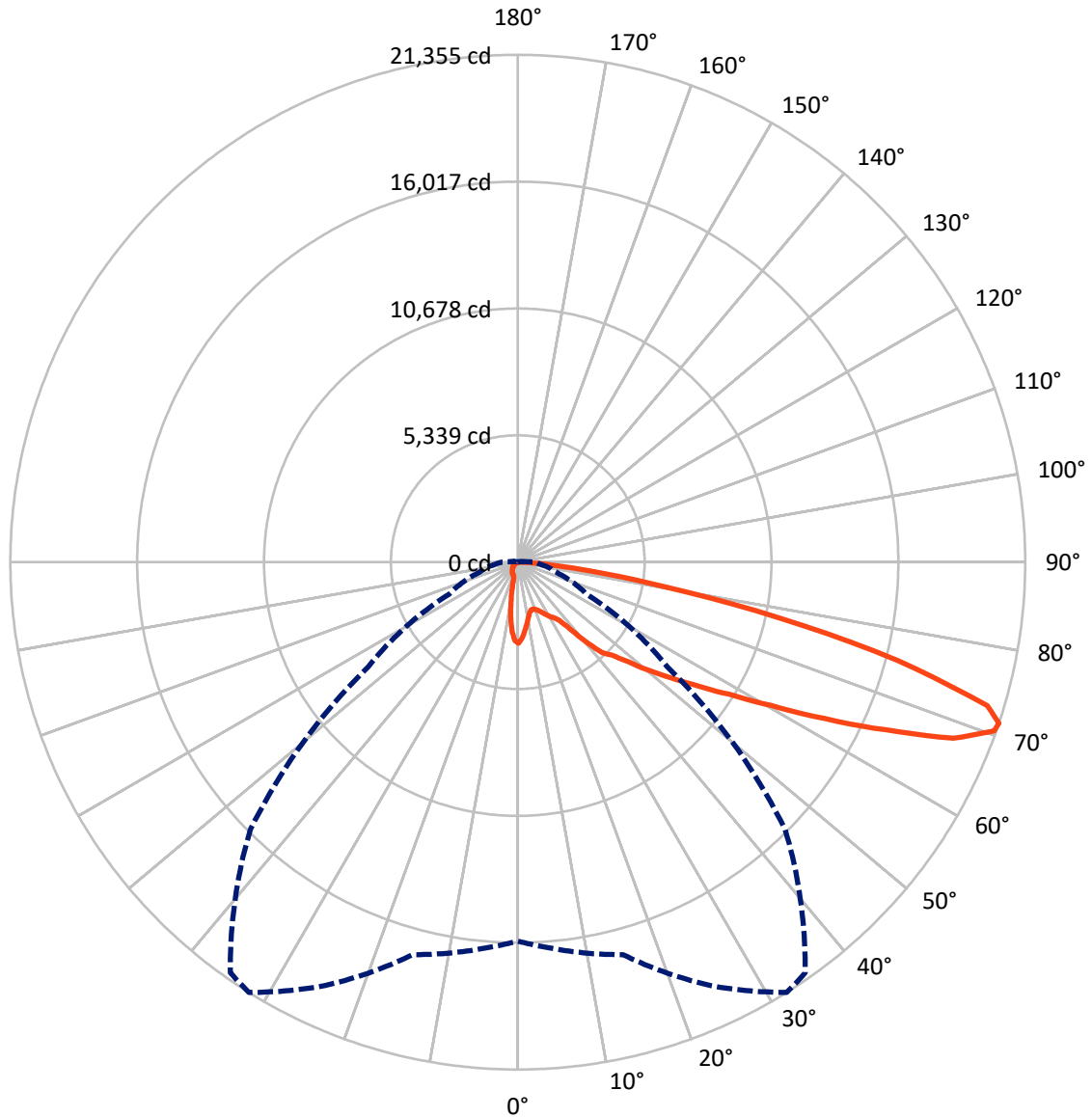
× Max cd
 - - - 1/2 Max cd



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
House Side	Lumens	1776.0	0.0	1776.0
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	19427.0	0.0	19427.0
	% Fixture	91.6	0.0	91.6
Total	Lumens	21203.0	0.0	21203.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	277.3	1.3
10°-20°	601.7	2.8
20°-30°	936.1	4.4
30°-40°	1559.6	7.4
40°-50°	2901.1	13.7
50°-60°	4657.8	22.0
60°-70°	6265.0	29.5
70°-80°	3717.1	17.5
80°-90°	287.3	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°	21203.0	100.0
0°-180°	21203.0	100.0

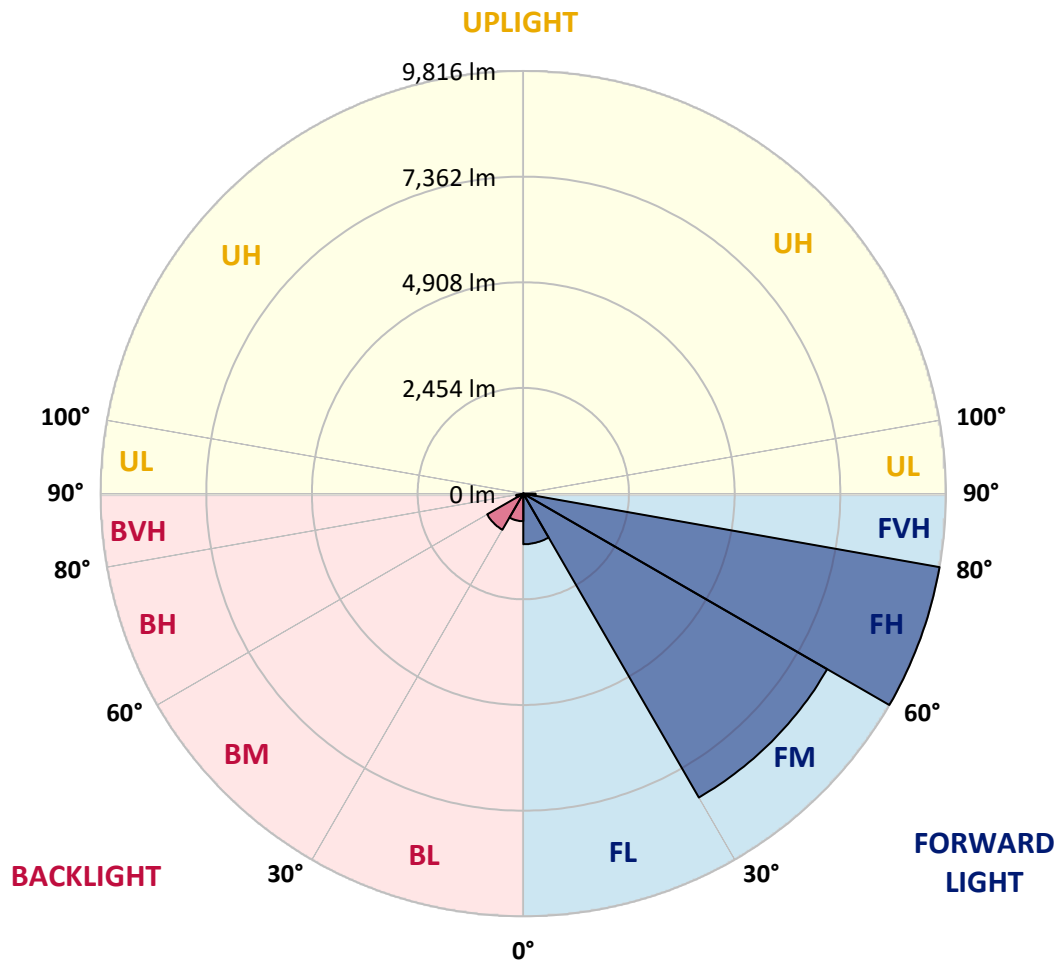


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1175.2	5.5			
FM	(30°-60°)	8149.6	38.4			
FH	(60°-80°)	9816.0	46.3			G4/12000
FVH	(80°-90°)	286.2	1.3			G3/500
BL	(0°-30°)	639.9	3.0	B2/1000		
BM	(30°-60°)	968.8	4.6	B1/1000		
BH	(60°-80°)	166.1	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°	3409.8	3409.8	3409.8	3409.8	3409.8	3409.8	3409.8	3409.8	3409.8	3409.8	3409.8
2.5°	3162.4	3194.9	3190.1	3201.4	3229.1	3240.5	3271.4	3305.6	3352.8	3385.4	3406.5
5°	2832.0	2856.4	2859.7	2916.6	2944.3	2975.2	3066.4	3165.6	3276.3	3364.2	3422.8
7.5°	2478.8	2491.8	2517.9	2592.7	2662.7	2693.6	2832.0	3004.5	3178.7	3343.0	3448.8
10°	2187.5	2202.1	2249.3	2329.1	2394.2	2434.9	2626.9	2843.4	3087.5	3331.6	3486.3
12.5°	2021.5	2029.6	2047.5	2119.1	2202.1	2246.1	2452.8	2700.2	3014.3	3336.5	3549.7
15°	2010.1	2006.8	1985.6	2014.9	2089.8	2135.4	2337.2	2602.5	2949.2	3352.8	3624.6
17.5°	2070.3	2062.1	2011.7	2011.7	2073.5	2111.0	2288.4	2550.4	2916.6	3390.2	3730.4
20°	2163.0	2150.0	2067.0	2060.5	2120.7	2159.8	2317.7	2553.7	2923.1	3460.2	3872.0
22.5°	2280.2	2265.6	2140.3	2143.5	2208.6	2247.7	2402.3	2612.3	2963.8	3546.5	4023.4
25°	2433.2	2417.0	2268.8	2262.3	2330.7	2364.9	2527.6	2716.4	3020.8	3653.9	4221.9
27.5°	2636.7	2602.5	2425.1	2415.3	2488.6	2532.5	2679.0	2856.4	3121.7	3802.0	4488.9
30°	2804.3	2766.9	2597.6	2571.6	2649.7	2683.9	2835.2	3045.2	3320.3	4060.8	4858.3
32.5°	3024.0	2968.7	2770.1	2701.8	2784.8	2828.7	3061.5	3396.8	3614.8	4334.2	5297.8
35°	3518.8	3484.6	3242.1	3002.9	2998.0	3053.3	3395.1	3751.6	3917.6	4760.7	5896.7
37.5°	4226.8	4202.4	3945.2	3624.6	3531.8	3505.8	3800.4	4142.2	4401.0	5346.6	6593.3
40°	5048.7	4991.8	4755.8	4484.0	4363.5	4287.0	4278.9	4723.2	5032.5	6142.5	7319.2
42.5°	5637.9	5533.8	5247.3	5227.8	5201.7	5122.0	4890.9	5572.8	5847.9	6998.6	8095.6
45°	6256.4	6098.5	5672.1	5598.9	5589.1	5584.2	5815.3	6578.7	6736.5	7926.3	8893.1
47.5°	6736.5	6611.2	6261.3	6228.7	6269.4	6380.1	7037.6	7646.4	7613.8	8753.1	9562.0
50°	7376.2	7281.8	6892.8	6954.6	7164.6	7345.3	8416.2	8810.1	8334.8	9404.1	10048.7
52.5°	8131.4	7957.2	7595.9	7763.5	8085.8	8386.9	9879.4	9828.9	8841.0	9894.0	10411.6
55°	8785.7	8662.0	8538.3	8712.4	9194.2	9570.2	11201.0	10592.3	9208.8	10287.9	10571.1
57.5°	9892.4	9863.1	9736.2	9913.6	10497.9	10888.5	12384.2	11184.7	9444.8	10493.0	10383.9
60°	11529.8	11482.6	11246.6	11472.8	12234.5	12848.1	13474.7	11716.9	9498.5	10413.2	9845.2
62.5°	13499.1	13338.0	13136.2	13469.8	14514.7	14784.9	14501.7	12032.7	9298.3	9778.5	8546.4
65°	15338.3	15172.3	15177.2	15880.3	17017.9	17201.9	15699.6	11985.5	8712.4	8188.3	6303.6
67.5°	16746.1	16718.5	16917.0	18289.1	19776.7	19649.7	16770.6	11279.1	6975.8	5307.5	3349.6
70°	16817.8	16871.5	17441.1	19757.2	21267.5	21065.7	16679.4	9168.1	4348.9	2441.4	1320.0
71°	15951.9	16313.2	17101.0	19711.6	21355.4	21093.4	15911.2	7678.9	3190.1	1702.4	952.1
72.5°	13593.5	13783.9	15486.4	18551.1	20660.5	20100.6	13963.0	5382.4	2042.6	1041.6	546.9
75°	7486.9	7955.6	10370.9	14553.8	16524.8	16033.3	9099.8	2556.9	1018.9	569.7	226.2
77.5°	3564.4	3473.2	5060.1	8655.5	11204.2	11178.2	4584.9	1136.0	594.1	385.7	113.9
80°	1018.9	1145.8	1936.8	4114.5	6220.6	6289.0	1761.0	548.5	411.8	301.1	58.6
82.5°	307.6	314.1	711.3	1819.6	3094.0	2916.6	660.8	279.9	296.2	239.3	34.2
85°	53.7	66.7	210.0	641.3	1180.0	895.2	166.0	133.5	195.3	157.9	19.5
87.5°	3.3	4.9	70.0	73.2	104.2	60.2	29.3	19.5	42.3	42.3	11.4
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°	3409.8	3409.8	3409.8	3409.8	3409.8	3409.8	3409.8	3409.8	3409.8	3409.8	3409.8
2.5°	3421.2	3430.9	3424.4	3409.8	3385.4	3356.1	3317.0	3284.5	3256.8	3242.1	3260.0
5°	3442.3	3455.3	3422.8	3349.6	3238.9	3118.4	2981.7	2875.9	2792.9	2766.9	2757.1
7.5°	3474.9	3483.0	3395.1	3232.4	2998.0	2713.2	2464.2	2254.2	2091.4	2042.6	1971.0
10°	3517.2	3512.3	3346.3	3043.6	2631.8	2203.7	1818.0	1531.5	1315.1	1237.0	1230.4
12.5°	3582.3	3556.3	3284.5	2786.4	2195.6	1635.7	1158.8	906.6	769.8	724.3	714.5
15°	3663.7	3601.8	3186.8	2485.3	1681.3	1056.3	714.5	638.0	620.1	616.9	613.6
17.5°	3759.7	3662.0	3058.2	2115.8	1181.6	685.2	597.3	595.7	597.3	594.1	592.4
20°	3889.9	3725.5	2905.2	1678.0	781.2	577.8	569.7	569.7	571.3	569.7	569.7
22.5°	4028.3	3800.4	2716.4	1280.9	589.2	548.5	546.9	550.1	553.4	551.7	551.7
25°	4199.1	3898.0	2467.4	877.3	527.3	524.1	525.7	532.2	538.7	540.4	538.7
27.5°	4446.5	4018.5	2200.5	603.8	483.4	486.6	502.9	519.2	529.0	530.6	530.6
30°	4724.9	4151.9	1852.2	489.9	447.6	447.6	467.1	498.0	519.2	522.5	524.1
32.5°	5082.9	4306.6	1466.4	441.1	413.4	410.1	428.1	465.5	504.5	515.9	515.9
35°	5525.6	4488.9	1090.5	410.1	389.0	380.9	390.6	421.5	472.0	504.5	507.8
37.5°	6044.8	4661.4	797.5	382.5	366.2	354.8	361.3	385.7	426.4	475.3	488.3
40°	6525.0	4814.4	595.7	359.7	343.4	335.3	340.2	351.6	385.7	431.3	439.4
42.5°	7049.0	4933.2	473.6	335.3	320.6	317.4	317.4	322.3	345.0	371.1	372.7
45°	7571.5	4975.5	397.1	306.0	296.2	299.5	297.8	294.6	304.4	301.1	301.1
47.5°	7944.2	4925.0	328.8	278.3	278.3	283.2	275.1	263.7	258.8	239.3	240.9
50°	8199.7	4741.1	270.2	245.8	258.8	265.3	249.0	231.1	213.2	192.1	187.2
52.5°	8305.5	4414.0	221.4	203.4	229.5	237.6	218.1	196.9	169.3	151.4	146.5
55°	8237.2	4010.3	183.9	166.0	193.7	203.4	183.9	159.5	128.6	109.0	105.8
57.5°	7936.1	3528.6	156.2	131.8	154.6	161.1	148.1	122.1	91.1	71.6	71.6
60°	7415.2	3030.5	127.0	104.2	115.6	125.3	112.3	87.9	61.8	43.9	40.7
62.5°	6358.9	2460.9	102.5	81.4	81.4	89.5	78.1	63.5	39.1	22.8	21.2
65°	4591.4	1687.8	81.4	60.2	58.6	58.6	48.8	42.3	22.8	9.8	6.5
67.5°	2495.1	952.1	65.1	45.6	40.7	39.1	30.9	24.4	9.8	1.6	0.0
70°	981.4	366.2	50.5	30.9	26.0	24.4	16.3	11.4	6.5	0.0	0.0
71°	665.7	252.3	43.9	26.0	21.2	17.9	13.0	9.8	4.9	0.0	0.0
72.5°	380.9	156.2	34.2	19.5	16.3	13.0	9.8	6.5	4.9	0.0	0.0
75°	166.0	79.8	21.2	14.6	11.4	8.1	6.5	4.9	1.6	0.0	0.0
77.5°	84.6	43.9	14.6	11.4	6.5	4.9	3.3	1.6	0.0	0.0	0.0
80°	47.2	22.8	9.8	6.5	4.9	3.3	1.6	1.6	0.0	0.0	0.0
82.5°	26.0	13.0	4.9	3.3	1.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	16.3	8.1	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	8.1	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)