

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: P452055

Luminaire Tested: **GALN-SA3A-727-U-SL3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452055
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA3A-727-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11316 lumens
Efficiency: N/A
Efficacy: 121.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

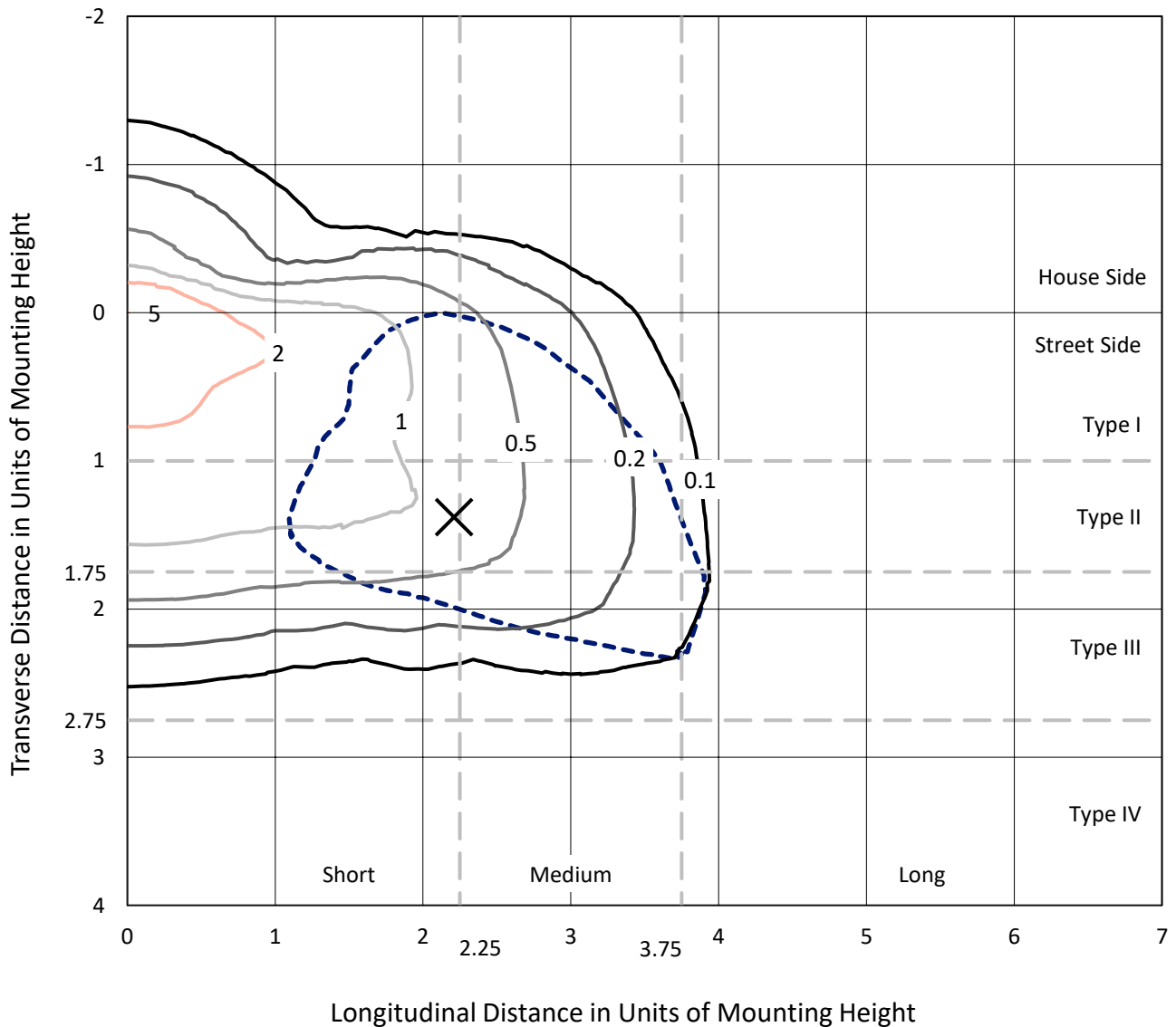
Input Watts (W): 93
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

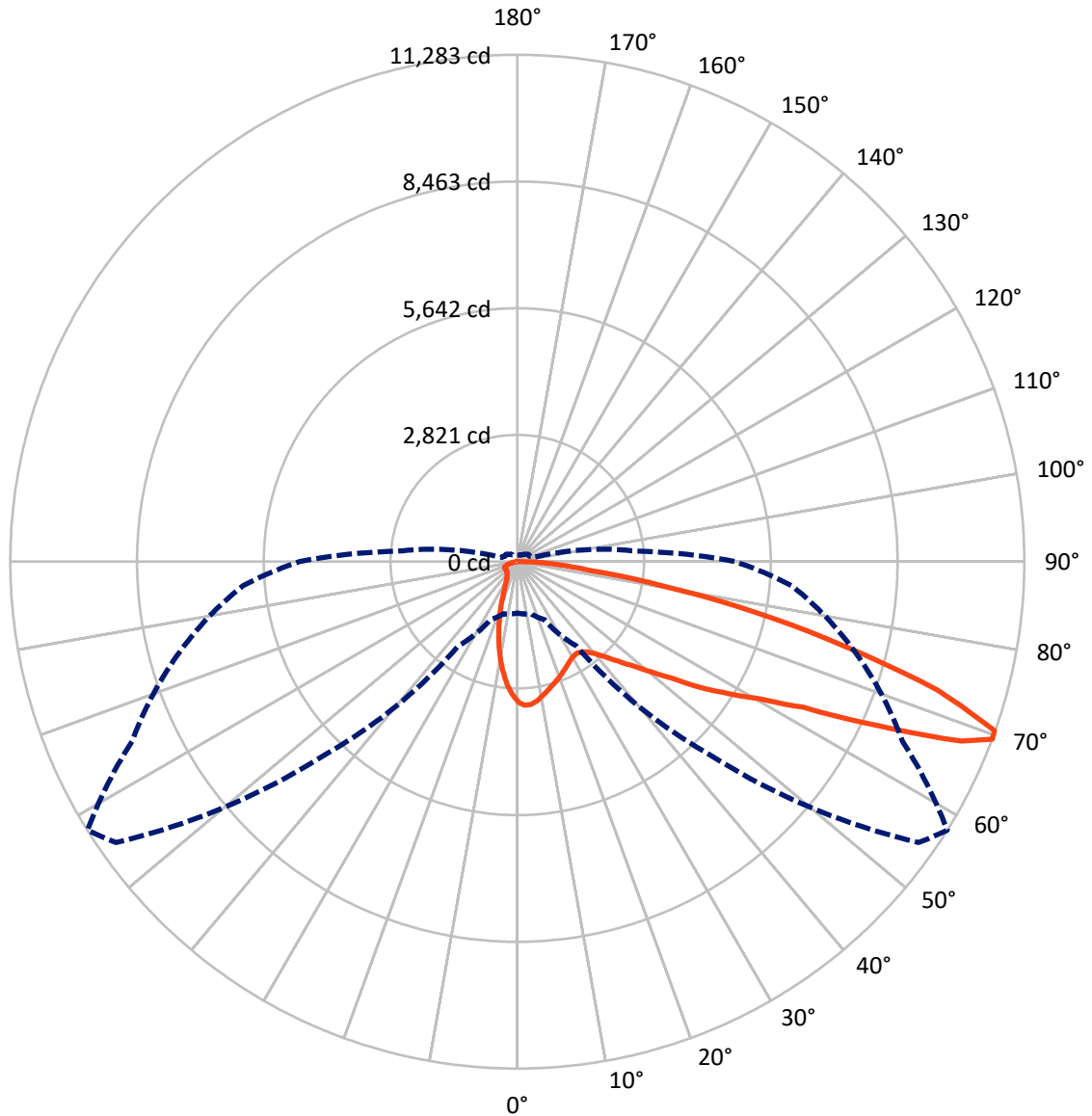
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1658.4	0.0	1658.4
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	9657.6	0.0	9657.6
	% Fixture	85.3	0.0	85.3
Total	Lumens	11316.0	0.0	11316.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	265.6	2.3
10°-20°	583.1	5.2
20°-30°	753.4	6.7
30°-40°	978.5	8.6
40°-50°	1422.7	12.6
50°-60°	2270.1	20.1
60°-70°	3032.6	26.8
70°-80°	1748.2	15.4
80°-90°	261.8	2.3
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°	11316.0	100.0
0°-180°	11316.0	100.0

Coefficient of Utilization



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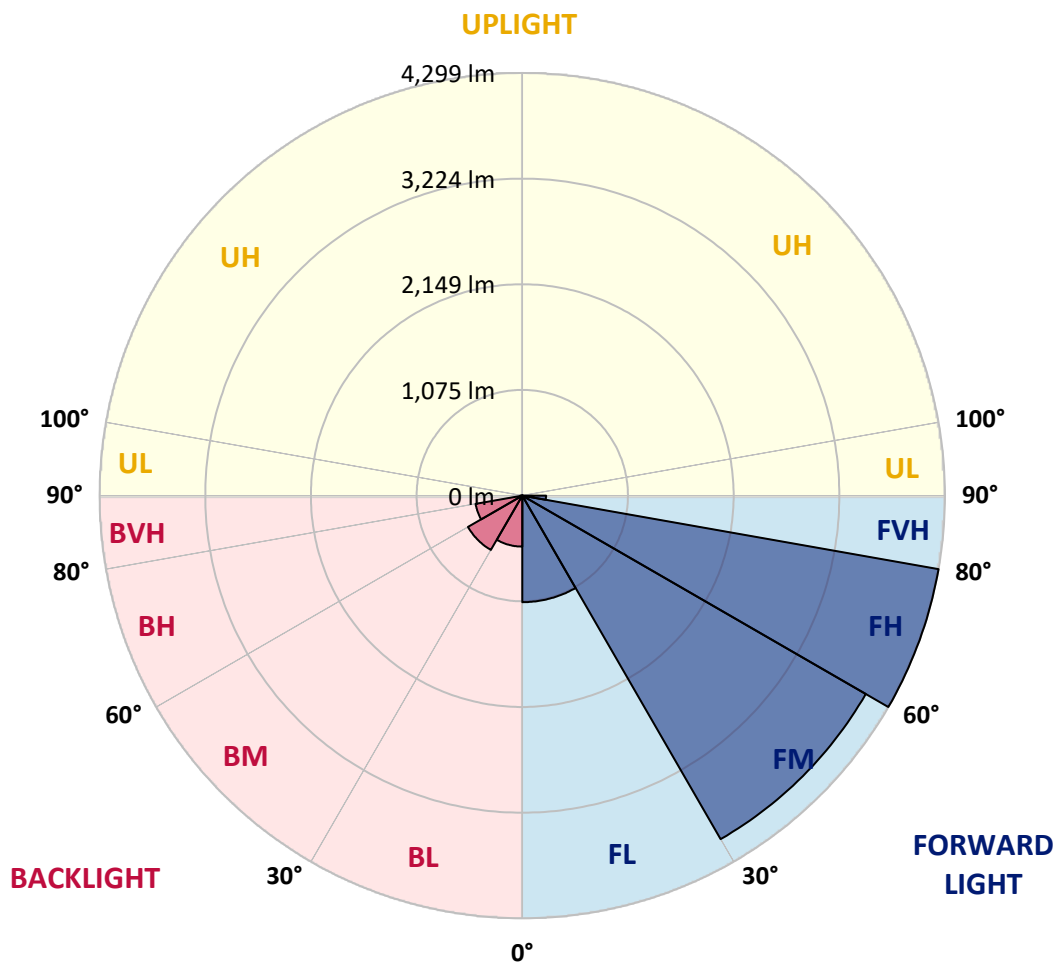
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1083.8	9.6			
FM	(30°-60°)	4033.6	35.6			
FH	(60°-80°)	4298.5	38.0			G2/5000
FVH	(80°-90°)	241.8	2.1			G3/500
BL	(0°-30°)	518.3	4.6	B2/1000		
BM	(30°-60°)	637.7	5.6	B1/1000		
BH	(60°-80°)	482.2	4.3	B1/500		G1/500
BVH	(80°-90°)	20.1	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	3127.1	3127.1	3127.1	3127.1	3127.1	3127.1	3127.1	3127.1	3127.1	3127.1	3127.1
2.5°	3243.2	3252.0	3249.5	3246.4	3241.3	3227.4	3204.7	3200.9	3186.4	3155.5	3117.0
5°	3193.3	3200.9	3201.5	3206.0	3212.3	3209.8	3193.3	3191.5	3170.0	3128.3	3064.0
7.5°	3022.3	3032.4	3054.5	3079.1	3101.2	3122.0	3127.1	3130.2	3117.0	3069.0	2983.2
10°	2829.8	2839.9	2850.0	2886.6	2940.9	2992.7	3035.6	3041.3	3044.4	3000.2	2895.5
12.5°	2616.5	2637.3	2658.8	2713.1	2785.7	2867.1	2942.8	2954.8	2976.2	2942.8	2819.7
15°	2435.4	2456.9	2487.8	2536.4	2624.1	2741.5	2848.1	2867.7	2910.0	2892.9	2749.1
17.5°	2309.8	2317.4	2338.8	2394.4	2489.0	2612.7	2755.4	2794.5	2862.0	2857.6	2688.5
20°	2210.7	2220.2	2233.4	2267.5	2366.0	2496.6	2668.9	2719.4	2810.9	2826.0	2628.5
22.5°	2169.1	2176.0	2174.1	2192.4	2259.3	2390.6	2581.2	2641.1	2765.5	2804.6	2573.0
25°	2171.6	2177.9	2168.4	2164.0	2203.8	2297.2	2489.7	2566.0	2728.9	2790.1	2522.5
27.5°	2213.9	2218.3	2200.6	2183.0	2186.1	2239.1	2413.9	2498.5	2697.9	2796.4	2480.2
30°	2270.7	2278.9	2267.5	2246.1	2222.7	2225.2	2365.3	2448.7	2683.4	2818.5	2460.0
32.5°	2343.9	2351.5	2346.4	2329.4	2299.1	2265.6	2353.4	2430.4	2684.7	2863.3	2455.6
35°	2420.9	2436.0	2444.2	2443.0	2418.4	2360.3	2400.7	2464.4	2715.0	2938.4	2481.5
37.5°	2508.0	2520.6	2555.9	2578.7	2555.9	2488.4	2507.3	2551.5	2781.9	3046.9	2538.3
40°	2592.5	2611.5	2663.2	2733.9	2725.1	2665.7	2670.2	2699.2	2899.9	3208.5	2649.3
42.5°	2680.9	2703.6	2793.9	2898.6	2919.4	2873.4	2885.4	2911.2	3067.8	3432.5	2839.9
45°	2794.5	2821.6	2932.7	3063.3	3145.4	3117.0	3151.1	3163.7	3292.4	3724.1	3091.1
47.5°	2940.9	2972.5	3109.4	3272.2	3388.4	3414.2	3473.6	3466.0	3570.7	4069.3	3416.8
50°	3187.7	3205.3	3334.7	3500.7	3660.4	3777.1	3841.5	3853.5	3915.9	4405.0	3780.9
52.5°	3481.1	3496.9	3590.3	3735.5	3935.5	4182.9	4341.9	4302.8	4318.0	4814.0	4206.9
55°	3811.2	3837.7	3897.0	3993.6	4253.0	4617.1	4936.4	4945.9	4778.0	5205.3	4615.2
57.5°	4066.8	4111.6	4213.2	4350.8	4679.6	5099.9	5529.0	5535.3	5320.8	5623.1	5065.8
60°	3938.0	3991.1	4223.3	4558.4	5239.4	5942.4	6237.1	6201.1	5849.0	6098.9	5615.5
62.5°	3382.7	3392.1	3729.8	4253.6	5411.6	7069.5	7291.1	7139.0	6553.9	6702.2	6174.0
65°	2189.3	2251.1	2518.7	3252.7	4845.6	7695.0	9137.6	8786.1	7542.2	7387.0	6641.7
67.5°	1382.1	1366.3	1477.4	1857.3	3332.8	7144.0	10713.5	10657.9	8834.7	7819.3	6529.9
69°	1146.1	1163.7	1201.6	1423.8	2293.4	6099.5	10899.7	11283.4	9461.4	7785.2	6124.2
70°	1039.4	1047.6	1087.4	1262.2	1769.6	5108.7	10594.2	11266.3	9707.5	7642.6	5830.1
72.5°	824.8	824.2	892.4	1050.1	1322.8	2916.3	8699.0	9781.4	9432.4	6978.7	4817.2
75°	626.7	636.8	711.9	888.6	1218.6	1593.5	6070.5	7532.8	7533.4	5512.0	3005.9
77.5°	451.9	458.2	545.9	746.0	1148.0	1291.9	4043.4	5402.8	5079.1	2525.6	944.8
80°	296.0	299.8	366.7	590.7	1035.0	1218.6	2397.5	3306.9	2395.6	670.2	312.4
82.5°	162.2	181.1	224.0	382.4	830.5	1125.9	1457.2	1673.7	898.7	298.5	162.8
85°	81.4	86.5	126.2	223.4	542.7	931.5	1014.8	959.9	463.9	148.3	84.6
87.5°	24.0	30.3	52.4	86.5	220.3	485.3	564.8	506.8	178.6	53.6	17.7
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°	3127.1	3127.1	3127.1	3127.1	3127.1	3127.1	3127.1	3127.1	3127.1	3127.1	3127.1
2.5°	3101.2	3089.8	3039.4	2993.9	2952.3	2908.1	2870.9	2838.0	2841.2	2841.8	2808.4
5°	3030.5	3004.6	2908.7	2819.1	2743.4	2647.4	2565.4	2512.4	2485.9	2450.5	2463.2
7.5°	2934.6	2884.7	2751.6	2602.6	2463.2	2338.8	2203.8	2111.0	2051.7	1994.3	2001.8
10°	2835.5	2755.4	2561.6	2364.7	2184.2	1985.4	1813.1	1665.5	1555.7	1514.6	1487.5
12.5°	2733.9	2628.5	2382.4	2120.5	1871.2	1633.3	1389.0	1230.6	1109.5	1045.1	1053.3
15°	2641.1	2513.0	2195.6	1876.2	1552.5	1269.1	1025.5	874.7	790.1	772.5	782.6
17.5°	2555.3	2387.4	2020.8	1639.0	1260.9	951.7	770.6	685.4	651.3	641.8	641.2
20°	2467.0	2280.8	1824.5	1385.3	982.6	737.8	632.4	592.6	586.3	590.1	590.7
22.5°	2377.3	2148.9	1622.5	1133.4	782.6	603.3	552.8	542.1	547.2	556.0	557.3
25°	2294.7	2032.8	1428.2	912.6	624.8	530.1	505.5	505.5	516.9	530.1	530.8
27.5°	2226.5	1920.4	1234.4	724.5	523.2	477.1	468.9	473.3	489.1	499.2	499.8
30°	2170.3	1815.7	1051.4	580.6	460.1	434.8	432.9	440.5	451.9	461.3	462.0
32.5°	2128.1	1723.5	880.4	487.8	416.5	402.6	402.0	407.7	414.0	416.5	419.0
35°	2111.6	1647.2	723.9	429.1	387.5	378.7	378.7	378.0	380.6	381.8	383.1
37.5°	2124.9	1588.5	602.7	391.3	366.0	359.7	355.9	352.2	350.9	350.9	351.5
40°	2181.1	1557.5	512.4	366.7	350.9	341.4	334.5	330.1	325.6	326.9	328.2
42.5°	2300.3	1563.2	451.2	350.3	337.6	324.4	314.3	309.2	306.1	309.9	309.2
45°	2490.3	1620.0	412.1	338.9	324.4	307.3	297.9	292.8	292.8	298.5	300.4
47.5°	2756.0	1728.6	391.3	330.1	314.3	294.1	284.6	280.8	282.1	291.6	292.2
50°	3080.4	1917.3	387.5	325.6	309.2	284.6	273.9	270.1	273.3	283.4	284.6
52.5°	3438.2	2160.2	405.8	326.3	304.8	278.9	265.1	259.4	262.5	270.7	273.3
55°	3862.3	2464.4	453.1	328.8	298.5	275.8	258.7	246.1	249.9	255.6	256.2
57.5°	4295.2	2848.1	536.4	329.4	293.5	270.1	248.0	231.6	231.6	235.4	237.3
60°	4824.1	3265.9	646.2	330.1	294.1	261.9	233.5	215.2	212.7	214.6	215.2
62.5°	5349.2	3615.5	664.5	328.2	300.4	253.7	217.7	198.8	194.4	193.7	192.5
65°	5580.8	3550.5	544.6	319.3	307.3	248.7	205.1	183.0	175.4	172.9	172.9
67.5°	5203.4	3003.4	409.6	307.3	302.9	243.6	193.1	169.8	160.9	155.9	155.9
69°	4848.7	2671.4	367.9	299.1	291.6	235.4	185.5	162.8	152.1	146.4	144.5
70°	4574.8	2443.0	350.3	292.2	280.8	225.9	179.9	157.8	145.8	139.5	138.2
72.5°	3650.9	1916.6	306.7	265.7	239.2	190.0	159.7	142.0	130.6	123.7	121.8
75°	2104.1	1038.8	254.3	231.0	192.5	147.7	135.1	123.7	114.9	108.5	106.7
77.5°	647.5	401.4	184.3	182.4	141.4	114.2	107.9	103.5	97.2	90.2	89.0
80°	272.6	204.5	125.0	123.1	94.0	79.5	77.6	77.0	74.5	68.8	66.9
82.5°	149.6	115.5	87.1	75.7	56.8	46.1	48.0	48.6	46.7	41.0	37.2
85°	73.2	63.1	42.3	34.1	25.9	16.4	15.8	18.9	17.7	12.6	13.9
87.5°	14.5	17.7	11.4	5.0	2.5	0.0	0.0	0.0	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)