

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: P452113

Luminaire Tested: **GALN-SA3A-740-U-SL3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452113
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-740-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 4000K, 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: 13531 lumens
Efficiency: N/A
Efficacy: 145.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

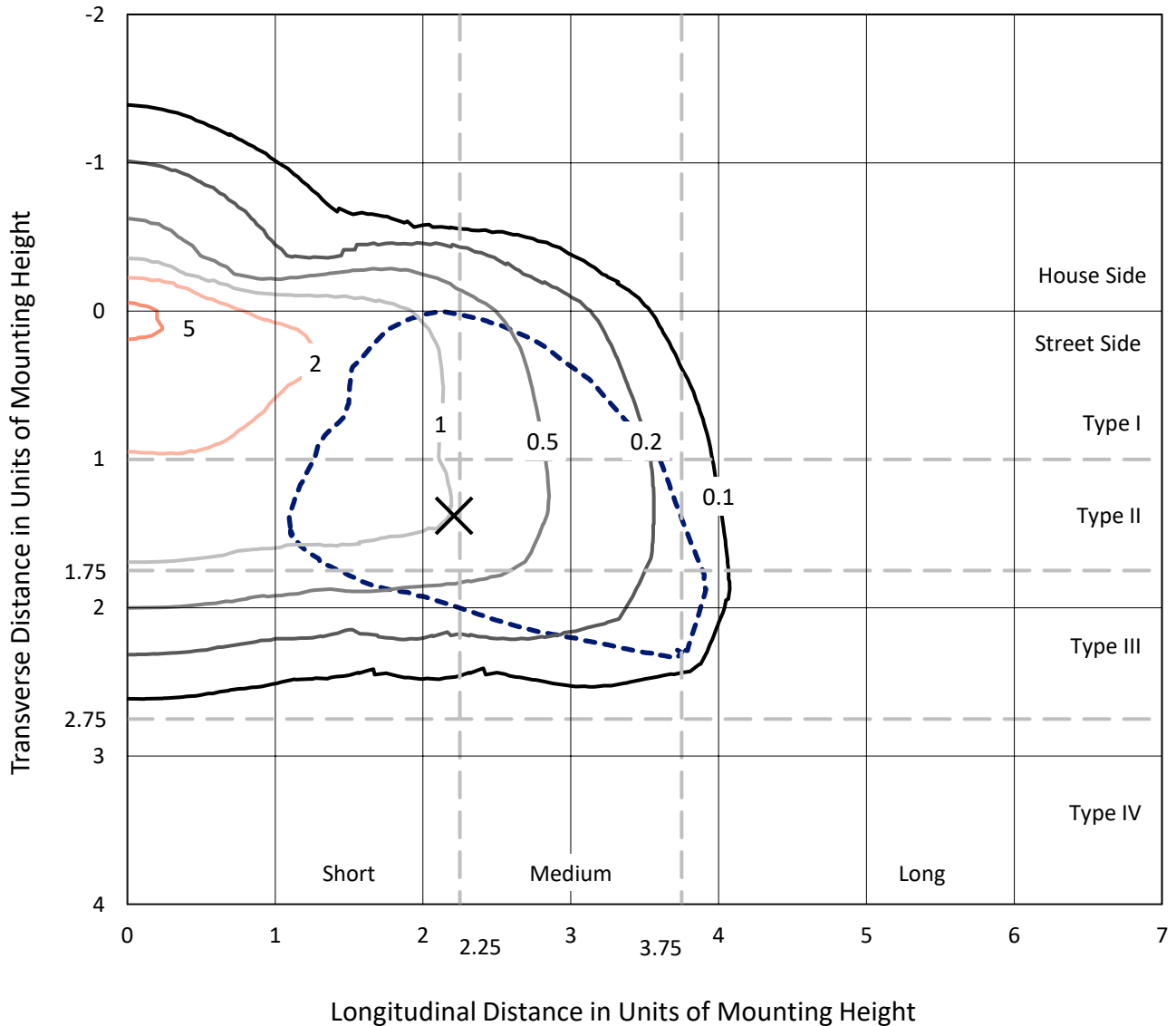
Input Watts (W): 93
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

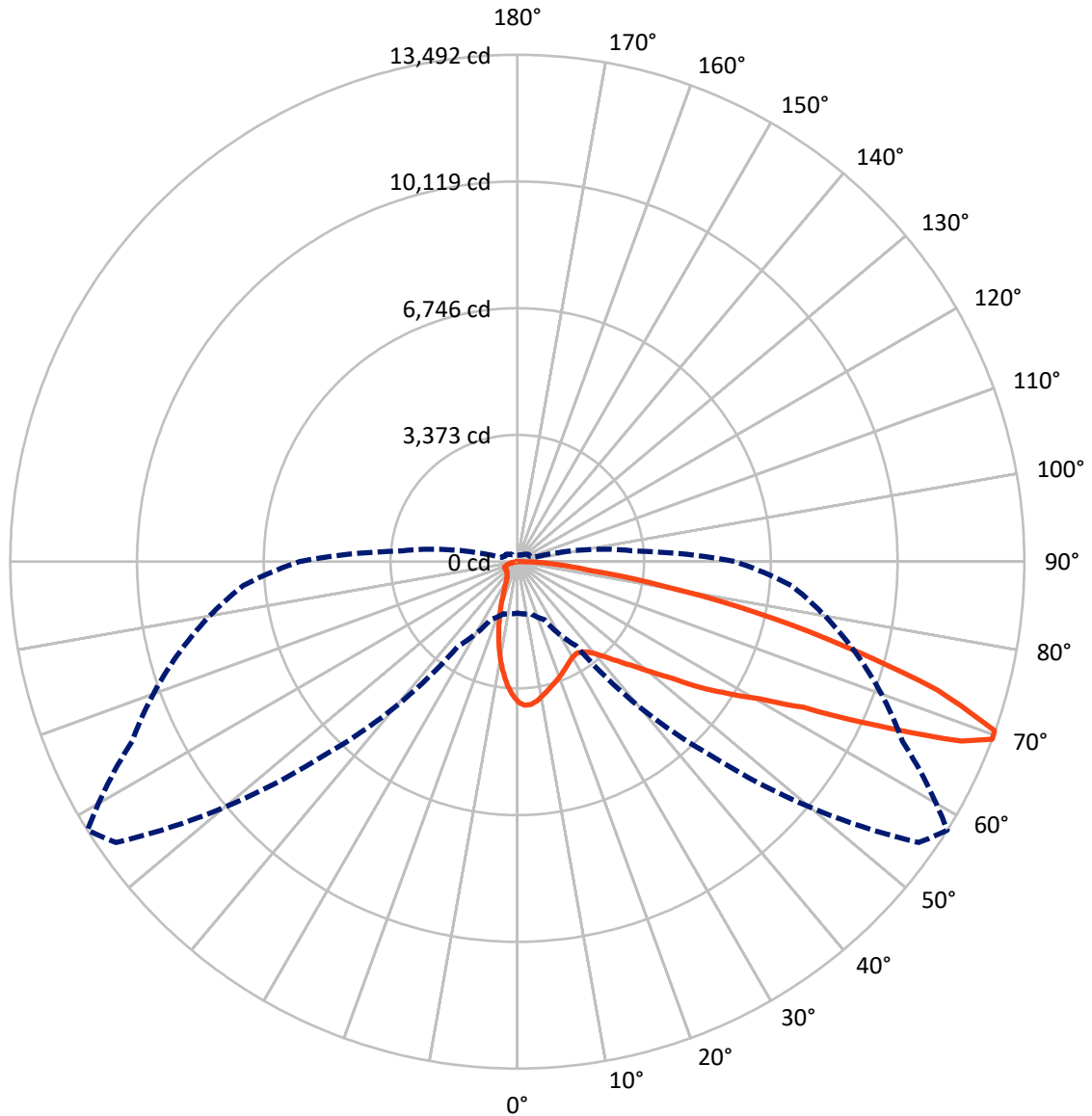
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 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	1983.0	0.0	1983.0
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	11548.0	0.0	11548.0
	% Fixture	85.3	0.0	85.3
Total	Lumens	13531.0	0.0	13531.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	317.5	2.3
10°-20°	697.3	5.2
20°-30°	900.9	6.7
30°-40°	1170.1	8.6
40°-50°	1701.1	12.6
50°-60°	2714.5	20.1
60°-70°	3626.2	26.8
70°-80°	2090.3	15.4
80°-90°	313.1	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°	13531.0	100.0
0°-180°	13531.0	100.0

Coefficient of Utilization



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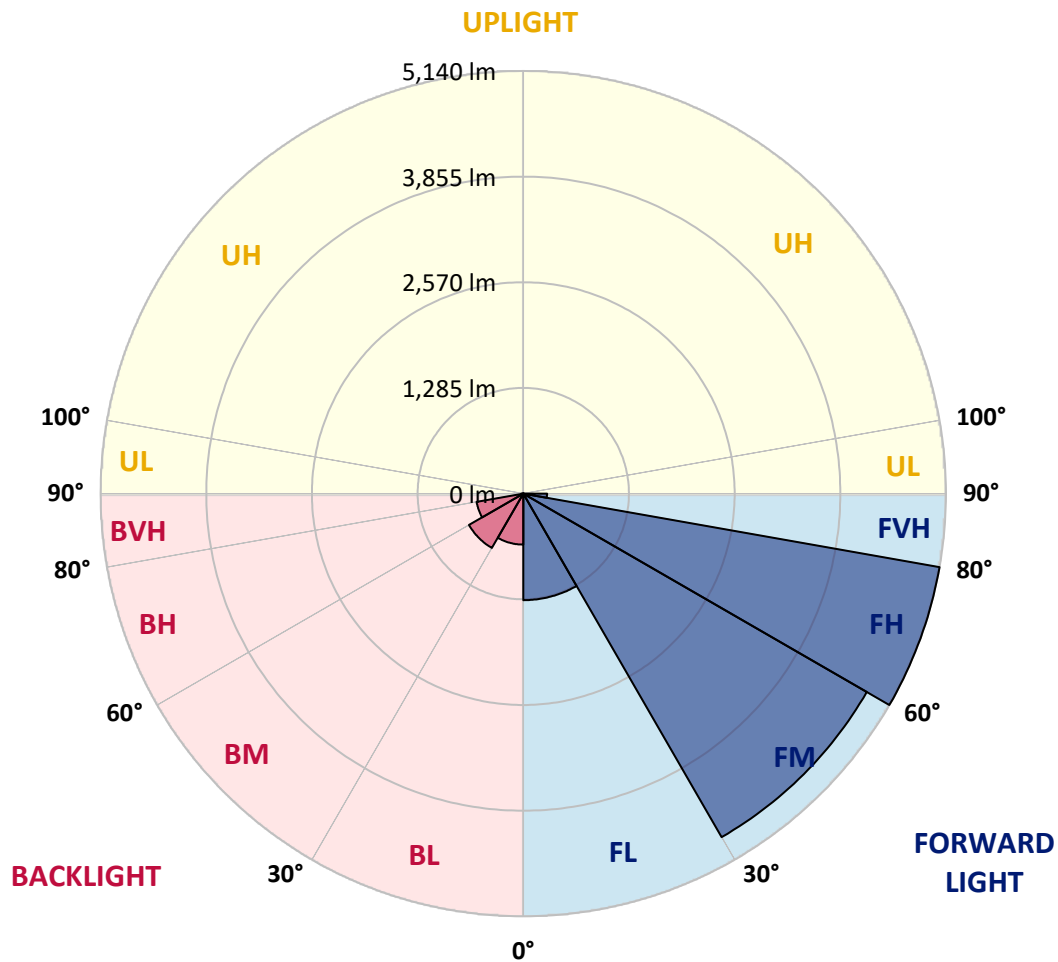
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1295.9	9.6			
FM (30°-60°)	4823.1	35.6			
FH (60°-80°)	5139.9	38.0			G3/7500
FVH (80°-90°)	289.1	2.1			G3/500
BL (0°-30°)	619.8	4.6	B2/1000		
BM (30°-60°)	762.6	5.6	B1/1000		
BH (60°-80°)	576.6	4.3	B2/1000		G2/1000
BVH (80°-90°)	24.0	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°	3739.2	3739.2	3739.2	3739.2	3739.2	3739.2	3739.2	3739.2	3739.2	3739.2	3739.2
2.5°	3878.0	3888.6	3885.6	3881.8	3875.8	3859.2	3832.0	3827.5	3810.1	3773.1	3727.1
5°	3818.4	3827.5	3828.2	3833.5	3841.1	3838.0	3818.4	3816.1	3790.5	3740.7	3663.7
7.5°	3613.9	3626.0	3652.4	3681.8	3708.2	3733.1	3739.2	3742.9	3727.1	3669.8	3567.1
10°	3383.7	3395.8	3407.9	3451.7	3516.6	3578.4	3629.8	3636.5	3640.3	3587.5	3462.2
12.5°	3128.7	3153.6	3179.2	3244.1	3330.9	3428.3	3518.8	3533.2	3558.8	3518.8	3371.7
15°	2912.1	2937.8	2974.7	3032.8	3137.7	3278.1	3405.6	3429.0	3479.6	3459.2	3287.2
17.5°	2761.9	2771.0	2796.6	2863.1	2976.2	3124.2	3294.7	3341.5	3422.2	3417.0	3214.7
20°	2643.5	2654.8	2670.6	2711.4	2829.1	2985.3	3191.3	3251.7	3361.1	3379.2	3143.0
22.5°	2593.7	2602.0	2599.7	2621.6	2701.6	2858.5	3086.4	3158.1	3306.8	3353.6	3076.6
25°	2596.7	2604.2	2592.9	2587.6	2635.2	2746.8	2977.0	3068.3	3263.0	3336.2	3016.2
27.5°	2647.2	2652.5	2631.4	2610.3	2614.0	2677.4	2886.4	2987.6	3226.0	3343.8	2965.7
30°	2715.1	2725.0	2711.4	2685.7	2657.8	2660.8	2828.3	2928.0	3208.7	3370.2	2941.5
32.5°	2802.7	2811.7	2805.7	2785.3	2749.1	2709.1	2814.0	2906.1	3210.2	3423.7	2936.3
35°	2894.7	2912.9	2922.7	2921.2	2891.7	2822.3	2870.6	2946.8	3246.4	3513.5	2967.2
37.5°	2998.9	3014.0	3056.2	3083.4	3056.2	2975.5	2998.1	3051.0	3326.4	3643.3	3035.1
40°	3100.0	3122.6	3184.5	3269.0	3258.5	3187.5	3192.8	3227.5	3467.5	3836.5	3167.9
42.5°	3205.7	3232.8	3340.7	3466.0	3490.9	3435.8	3450.2	3481.1	3668.2	4104.4	3395.8
45°	3341.5	3373.9	3506.8	3663.0	3761.1	3727.1	3767.9	3782.9	3936.9	4453.1	3696.2
47.5°	3516.6	3554.3	3718.0	3912.7	4051.6	4082.5	4153.5	4144.4	4269.7	4865.8	4085.5
50°	3811.6	3832.7	3987.4	4185.9	4376.8	4516.4	4593.4	4607.8	4682.5	5267.3	4521.0
52.5°	4162.5	4181.4	4293.1	4466.6	4705.9	5001.7	5191.8	5145.0	5163.2	5756.3	5030.3
55°	4557.2	4588.9	4659.8	4775.3	5085.4	5520.9	5902.7	5914.0	5713.3	6224.2	5518.6
57.5°	4862.8	4916.4	5037.9	5202.4	5595.6	6098.1	6611.3	6618.8	6362.3	6723.7	6057.4
60°	4708.9	4772.3	5050.0	5450.7	6264.9	7105.6	7458.0	7415.0	6993.9	7292.7	6714.7
62.5°	4044.8	4056.1	4459.8	5086.2	6470.9	8453.3	8718.2	8536.3	7836.8	8014.1	7382.5
65°	2617.8	2691.8	3011.7	3889.3	5794.0	9201.2	10926.2	10505.9	9018.5	8832.9	7941.7
67.5°	1652.6	1633.8	1766.6	2220.9	3985.2	8542.4	12810.5	12744.1	10564.0	9349.8	7808.1
69°	1370.4	1391.5	1436.8	1702.4	2742.3	7293.5	13033.2	13492.0	11313.4	9309.1	7322.9
70°	1242.9	1252.7	1300.2	1509.3	2116.0	6108.7	12667.9	13471.6	11607.7	9138.5	6971.2
72.5°	986.3	985.5	1067.0	1255.7	1581.7	3487.1	10401.8	11696.0	11278.7	8344.7	5760.1
75°	749.3	761.4	851.2	1062.5	1457.2	1905.4	7258.8	9007.2	9008.0	6590.9	3594.3
77.5°	540.3	547.9	652.8	892.0	1372.7	1544.7	4834.9	6460.4	6073.2	3020.0	1129.7
80°	353.9	358.4	438.4	706.3	1237.6	1457.2	2866.8	3954.2	2864.6	801.4	373.5
82.5°	193.9	216.6	267.9	457.3	993.1	1346.3	1742.4	2001.3	1074.6	356.9	194.7
85°	97.3	103.4	150.9	267.1	649.0	1113.8	1213.4	1147.8	554.7	177.3	101.1
87.5°	28.7	36.2	62.6	103.4	263.4	580.3	675.4	606.0	213.6	64.1	21.1
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°	3739.2	3739.2	3739.2	3739.2	3739.2	3739.2	3739.2	3739.2	3739.2	3739.2	3739.2
2.5°	3708.2	3694.7	3634.3	3579.9	3530.1	3477.3	3432.8	3393.6	3397.3	3398.1	3358.1
5°	3623.7	3592.8	3478.1	3370.9	3280.4	3165.7	3067.6	3004.2	2972.5	2930.2	2945.3
7.5°	3509.0	3449.4	3290.2	3112.1	2945.3	2796.6	2635.2	2524.2	2453.3	2384.6	2393.7
10°	3390.5	3294.7	3063.0	2827.6	2611.8	2374.1	2168.0	1991.5	1860.2	1811.1	1778.7
12.5°	3269.0	3143.0	2848.7	2535.5	2237.5	1953.0	1660.9	1471.5	1326.6	1249.7	1259.5
15°	3158.1	3004.9	2625.3	2243.5	1856.4	1517.6	1226.3	1045.9	944.8	923.7	935.7
17.5°	3055.5	2854.8	2416.3	1959.8	1507.7	1138.0	921.4	819.5	778.8	767.5	766.7
20°	2949.8	2727.2	2181.6	1656.4	1175.0	882.2	756.1	708.6	701.0	705.6	706.3
22.5°	2842.7	2569.5	1940.1	1355.3	935.7	721.4	661.1	648.2	654.3	664.8	666.3
25°	2743.8	2430.7	1707.7	1091.2	747.1	633.9	604.5	604.5	618.0	633.9	634.6
27.5°	2662.3	2296.3	1476.1	866.3	625.6	570.5	560.7	566.0	584.8	596.9	597.7
30°	2595.2	2171.1	1257.2	694.3	550.1	519.9	517.7	526.7	540.3	551.6	552.4
32.5°	2544.6	2060.9	1052.7	583.3	498.1	481.5	480.7	487.5	495.0	498.1	501.1
35°	2525.0	1969.6	865.6	513.1	463.3	452.8	452.8	452.0	455.0	456.5	458.1
37.5°	2540.8	1899.4	720.7	467.9	437.7	430.1	425.6	421.1	419.6	419.6	420.3
40°	2608.0	1862.4	612.8	438.4	419.6	408.3	400.0	394.7	389.4	390.9	392.4
42.5°	2750.6	1869.2	539.6	418.8	403.7	387.9	375.8	369.8	366.0	370.5	369.8
45°	2977.8	1937.1	492.8	405.2	387.9	367.5	356.2	350.1	350.1	356.9	359.2
47.5°	3295.5	2066.9	467.9	394.7	375.8	351.7	340.3	335.8	337.3	348.6	349.4
50°	3683.3	2292.6	463.3	389.4	369.8	340.3	327.5	323.0	326.8	338.8	340.3
52.5°	4111.2	2583.1	485.2	390.1	364.5	333.5	316.9	310.2	313.9	323.7	326.8
55°	4618.3	2946.8	541.8	393.2	356.9	329.8	309.4	294.3	298.8	305.6	306.4
57.5°	5136.0	3405.6	641.4	393.9	350.9	323.0	296.6	276.9	276.9	281.5	283.7
60°	5768.4	3905.2	772.7	394.7	351.7	313.2	279.2	257.3	254.3	256.6	257.3
62.5°	6396.2	4323.3	794.6	392.4	359.2	303.4	260.3	237.7	232.4	231.7	230.2
65°	6673.2	4245.5	651.2	381.8	367.5	297.3	245.3	218.8	209.8	206.8	206.8
67.5°	6221.9	3591.3	489.8	367.5	362.2	291.3	230.9	203.0	192.4	186.4	186.4
69°	5797.8	3194.3	439.9	357.7	348.6	281.5	221.9	194.7	181.9	175.1	172.8
70°	5470.3	2921.2	418.8	349.4	335.8	270.2	215.1	188.7	174.3	166.8	165.3
72.5°	4365.5	2291.8	366.7	317.7	286.0	227.1	190.9	169.8	156.2	147.9	145.6
75°	2515.9	1242.1	304.1	276.2	230.2	176.6	161.5	147.9	137.3	129.8	127.5
77.5°	774.2	479.9	220.4	218.1	169.0	136.6	129.0	123.8	116.2	107.9	106.4
80°	326.0	244.5	149.4	147.2	112.4	95.1	92.8	92.1	89.0	82.3	80.0
82.5°	178.8	138.1	104.1	90.6	67.9	55.1	57.4	58.1	55.8	49.1	44.5
85°	87.5	75.5	50.6	40.7	30.9	19.6	18.9	22.6	21.1	15.1	16.6
87.5°	17.4	21.1	13.6	6.0	3.0	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)