

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: P458781

Luminaire Tested: **GALN-SA3B-735-U-SL2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458781
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-14)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA3B-735-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15795 lumens
Efficiency: N/A
Efficacy: 130.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G3

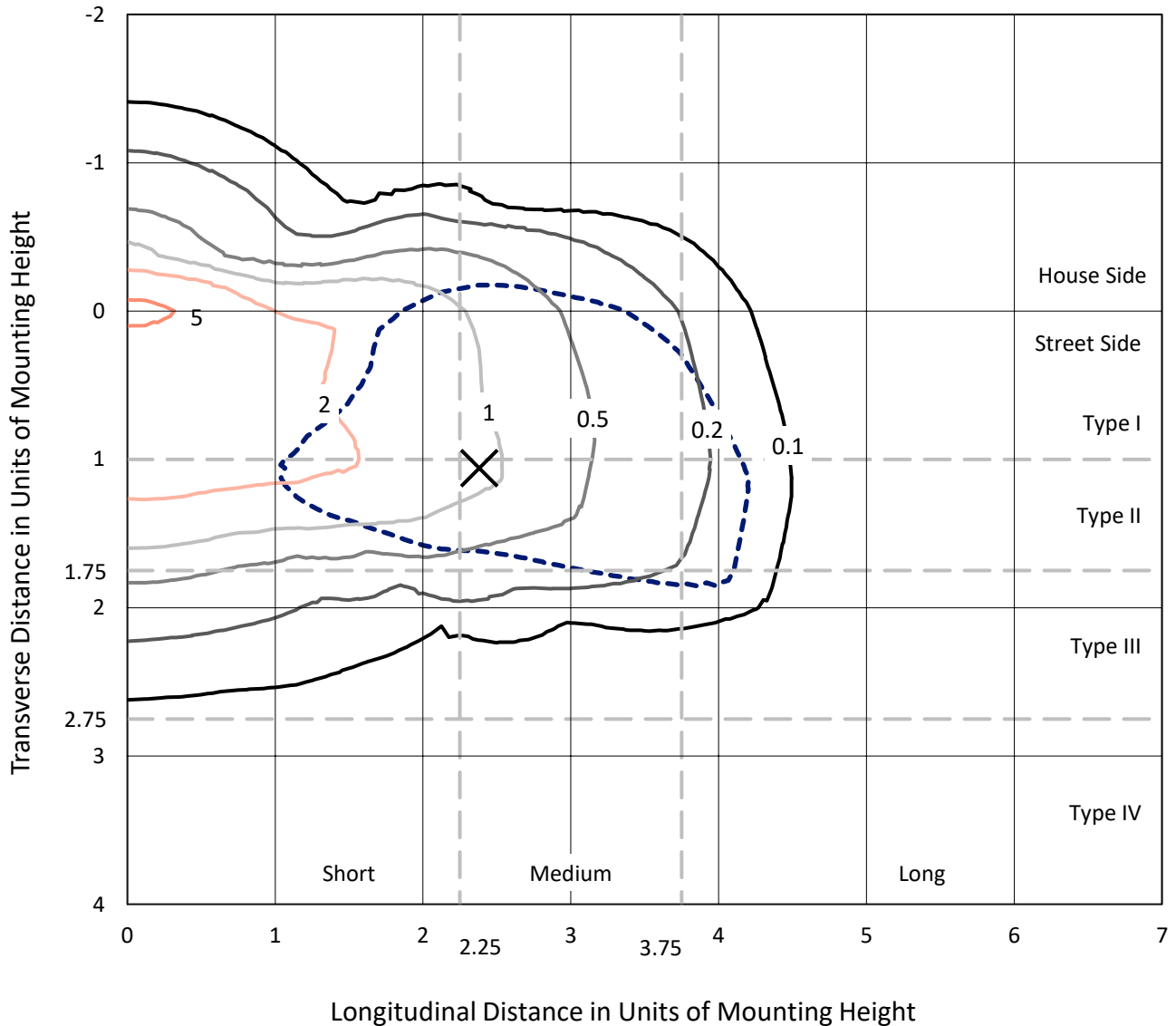
Input Watts (W): 121
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

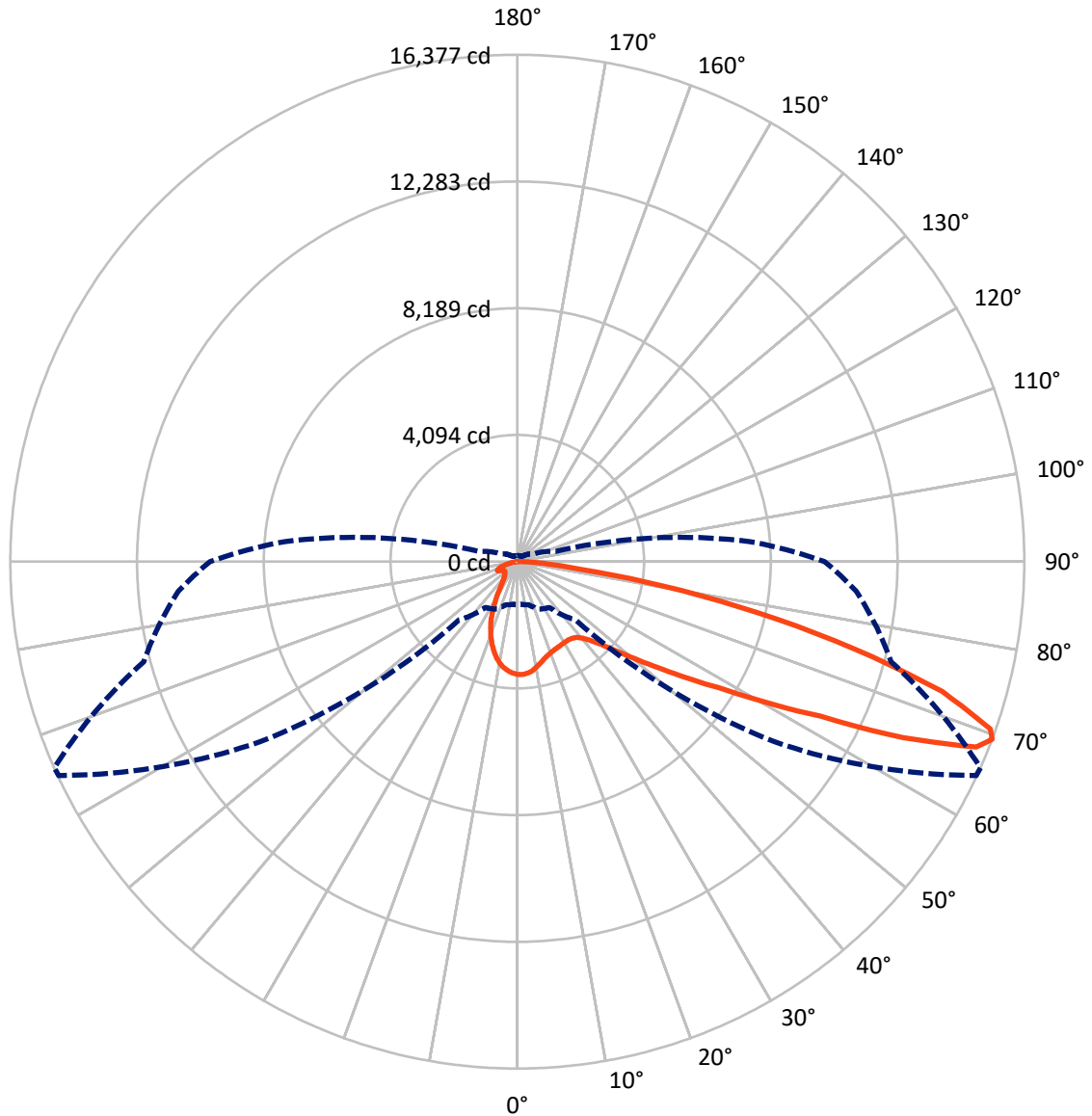
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2970.5	0.0	2970.5
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	12824.6	0.0	12824.6
	% Fixture	81.2	0.0	81.2
Total	Lumens	15795.0	0.0	15795.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	316.7	2.0
10°-20°	751.3	4.8
20°-30°	1022.8	6.5
30°-40°	1374.4	8.7
40°-50°	2052.2	13.0
50°-60°	3264.4	20.7
60°-70°	4015.0	25.4
70°-80°	2612.4	16.5
80°-90°	385.8	2.4
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°	15795.0	100.0
0°-180°	15795.0	100.0

Coefficient of Utilization



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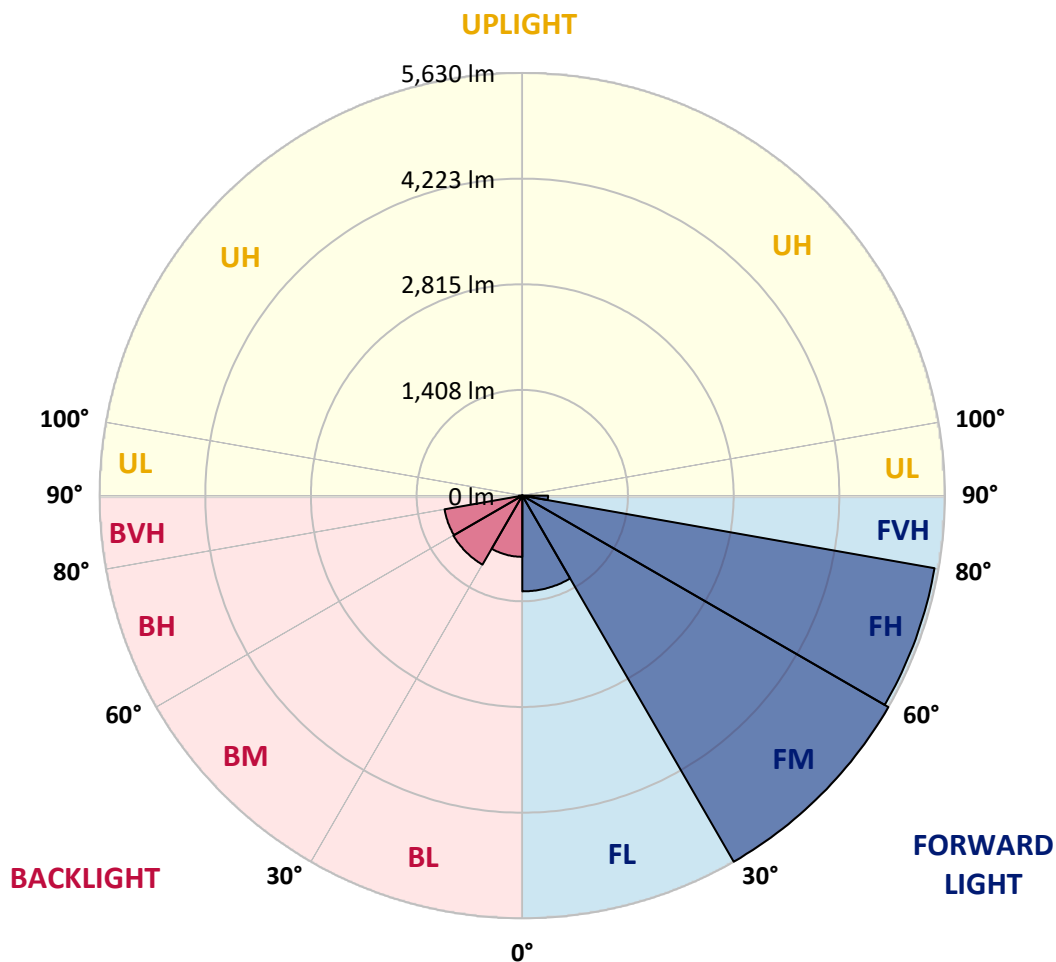
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1275.4	8.1			
FM	(30°-60°)	5630.4	35.6			
FH	(60°-80°)	5575.7	35.3			G3/7500
FVH	(80°-90°)	343.0	2.2			G3/500
BL	(0°-30°)	815.4	5.2	B2/1000		
BM	(30°-60°)	1060.6	6.7	B2/2500		
BH	(60°-80°)	1051.7	6.7	B3/2500		G3/2500
BVH	(80°-90°)	42.8	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	3647.5	3647.5	3647.5	3647.5	3647.5	3647.5	3647.5	3647.5	3647.5	3647.5	3647.5
2.5°	3519.8	3533.8	3549.5	3567.0	3600.3	3618.6	3631.8	3646.6	3648.4	3656.3	3650.1
5°	3260.0	3276.6	3300.2	3333.5	3383.3	3461.2	3541.7	3607.3	3615.1	3651.9	3662.4
7.5°	3043.1	3052.7	3072.0	3125.3	3196.2	3282.8	3400.0	3532.9	3552.2	3639.6	3670.2
10°	2866.4	2876.0	2898.8	2953.9	3023.8	3132.3	3260.9	3435.8	3451.6	3602.0	3672.0
12.5°	2734.3	2743.1	2767.6	2821.8	2902.3	3003.7	3145.4	3330.9	3353.6	3552.2	3655.4
15°	2633.7	2650.3	2670.5	2715.1	2799.9	2897.9	3035.2	3234.6	3253.0	3499.7	3644.0
17.5°	2590.9	2598.7	2612.7	2653.8	2715.9	2812.2	2950.4	3159.4	3181.3	3462.9	3641.4
20°	2592.6	2600.5	2603.1	2625.9	2670.5	2753.6	2890.0	3099.9	3126.2	3430.6	3645.8
22.5°	2652.1	2653.0	2643.3	2635.5	2653.0	2722.1	2847.2	3055.3	3085.9	3416.6	3649.3
25°	2743.9	2759.7	2745.7	2708.9	2676.6	2709.8	2830.5	3030.8	3059.7	3396.5	3644.9
27.5°	2892.6	2895.3	2883.9	2834.0	2750.1	2725.6	2823.5	3012.5	3037.0	3381.6	3623.0
30°	3092.1	3084.2	3073.7	3018.6	2886.5	2785.9	2838.4	2995.9	3021.2	3359.7	3596.8
32.5°	3294.1	3318.6	3309.0	3244.3	3072.8	2903.1	2886.5	2994.1	3015.1	3343.1	3567.9
35°	3508.4	3519.8	3565.3	3532.0	3356.2	3092.9	2976.6	3021.2	3037.8	3344.0	3547.8
37.5°	3676.4	3707.0	3813.7	3842.6	3677.2	3344.0	3122.7	3098.2	3105.2	3386.8	3555.7
40°	3879.3	3931.8	4069.1	4187.2	4078.7	3670.2	3371.1	3240.8	3249.5	3490.1	3607.3
42.5°	4136.5	4173.2	4357.8	4517.8	4500.3	4101.5	3672.0	3474.3	3478.7	3695.6	3751.6
45°	4437.4	4489.8	4697.1	4937.7	4978.8	4589.6	4106.7	3827.7	3825.1	4014.9	4021.0
47.5°	4822.2	4854.6	5060.1	5322.6	5488.8	5202.7	4634.2	4335.0	4307.0	4480.2	4430.4
50°	5176.5	5227.2	5382.9	5669.8	6083.5	5920.9	5327.8	4992.8	4927.2	5089.0	5005.0
52.5°	5325.2	5378.5	5509.7	5865.7	6593.5	6849.8	6208.6	5777.4	5668.1	5792.3	5761.7
55°	5067.1	5136.2	5258.7	5691.7	6817.4	7921.3	7396.5	6684.5	6604.9	6551.5	6560.3
57.5°	4373.5	4439.1	4604.4	5082.0	6549.8	8698.9	9092.5	7850.4	7679.9	7434.1	7476.1
60°	3329.1	3370.2	3455.9	3985.1	5756.4	8901.0	11018.6	9324.3	9215.9	8313.2	8342.9
62.5°	2364.3	2410.7	2470.2	2734.3	4214.3	8331.5	12526.6	11382.5	10995.0	9223.7	9194.9
65°	1920.0	1888.5	1960.2	2083.5	2472.8	6457.0	12866.0	14239.3	13705.7	10422.9	10022.3
67.5°	1578.8	1545.6	1616.4	1836.0	1880.6	3748.1	11643.1	16093.6	15986.9	11727.1	10862.9
69°	1397.8	1380.3	1442.4	1692.5	1805.4	2661.7	10143.0	16351.7	16377.0	12496.0	10992.4
70°	1259.6	1266.6	1326.9	1619.9	1771.3	2194.6	8669.2	15995.7	16210.8	12880.0	10852.4
72.5°	927.2	942.1	1026.0	1341.8	1738.9	1862.2	5159.0	13971.6	14352.1	12902.7	9927.9
75°	648.2	641.2	715.5	1010.3	1642.7	1845.6	3030.0	10805.2	11236.4	11152.4	8342.0
77.5°	424.2	435.6	495.1	713.8	1382.0	1831.6	1975.1	7665.9	7945.8	7458.6	4934.2
80°	299.1	298.3	331.5	487.2	1025.1	1759.9	1617.3	4831.8	4761.0	2931.1	1463.4
82.5°	171.4	183.7	222.2	342.9	685.8	1549.1	1487.9	2311.0	2109.8	835.3	494.2
85°	95.3	99.7	132.1	207.3	400.6	1166.9	1298.9	1051.4	991.9	349.0	212.6
87.5°	30.6	33.2	55.1	105.0	181.9	551.1	735.6	485.5	447.8	126.0	85.7
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°	3647.5	3647.5	3647.5	3647.5	3647.5	3647.5	3647.5	3647.5	3647.5	3647.5	3647.5
2.5°	3652.8	3663.2	3635.3	3608.1	3583.7	3549.5	3518.9	3493.6	3476.1	3473.4	3464.7
5°	3665.0	3665.9	3612.5	3540.8	3470.8	3393.8	3314.2	3257.4	3204.0	3174.3	3159.4
7.5°	3673.7	3665.9	3569.7	3453.3	3318.6	3178.7	3038.7	2926.8	2840.2	2806.0	2819.2
10°	3670.2	3645.8	3504.9	3318.6	3122.7	2913.6	2712.4	2555.0	2410.7	2336.3	2338.1
12.5°	3651.0	3610.8	3408.7	3167.3	2879.5	2599.6	2291.7	2079.2	1912.1	1813.3	1782.6
15°	3634.4	3564.4	3295.9	2961.7	2604.0	2204.2	1829.0	1566.6	1426.6	1348.8	1347.9
17.5°	3616.9	3519.8	3172.5	2743.9	2287.3	1773.0	1379.4	1179.1	1113.5	1121.4	1108.2
20°	3598.5	3467.3	3044.0	2501.6	1901.6	1322.5	1033.0	951.7	970.0	1005.9	1011.2
22.5°	3577.5	3411.3	2905.8	2234.9	1495.7	995.4	838.0	825.7	873.0	928.9	936.8
25°	3545.2	3341.4	2731.7	1955.8	1153.7	802.1	733.9	742.6	789.0	836.2	841.5
27.5°	3499.7	3254.8	2555.9	1607.7	866.8	688.4	670.9	682.3	705.0	733.9	740.9
30°	3438.5	3156.8	2353.8	1306.8	694.5	631.5	624.5	630.7	643.8	656.0	659.5
32.5°	3377.2	3062.3	2150.0	1000.7	619.3	593.9	586.9	586.9	586.9	588.7	589.5
35°	3320.4	2973.1	1931.3	779.4	579.9	564.2	554.6	544.1	542.3	536.2	536.2
37.5°	3288.9	2891.8	1698.7	652.5	551.1	539.7	526.6	509.1	499.5	500.3	498.6
40°	3295.0	2838.4	1487.0	580.8	527.4	515.2	495.1	475.0	468.8	468.8	467.1
42.5°	3364.1	2820.9	1284.1	543.2	504.7	490.7	465.3	447.0	443.5	442.6	444.3
45°	3523.3	2863.8	1102.1	518.7	485.5	464.5	439.1	422.5	419.0	419.0	418.1
47.5°	3833.8	3002.8	971.8	503.0	471.5	444.3	418.1	401.5	395.4	393.6	393.6
50°	4316.7	3304.6	874.7	489.0	454.0	426.0	398.9	379.6	370.0	369.1	368.2
52.5°	4987.5	3775.2	837.1	478.5	434.7	406.7	377.0	358.6	346.4	343.8	342.0
55°	5772.2	4432.1	888.7	470.6	414.6	384.9	354.3	335.0	323.6	318.4	317.5
57.5°	6681.0	5221.1	1084.6	460.1	396.2	361.3	331.5	312.3	300.0	293.9	292.2
60°	7497.1	6031.9	1426.6	454.0	380.5	335.9	305.3	287.8	276.4	270.3	269.4
62.5°	8393.6	6805.2	1835.1	470.6	373.5	311.4	280.8	265.0	255.4	249.3	249.3
65°	9351.4	7579.3	2105.4	526.6	384.0	292.2	254.5	241.4	232.7	228.3	227.4
67.5°	9997.0	7846.9	1734.5	584.3	410.2	271.2	229.2	218.7	213.4	209.1	209.1
69°	9927.0	7508.4	1279.7	599.2	418.1	260.7	215.2	207.3	200.3	198.6	196.8
70°	9705.7	7122.7	1072.4	589.5	412.0	251.0	206.4	196.8	190.7	188.9	188.1
72.5°	8644.7	6177.1	798.6	512.6	350.8	217.8	182.8	174.1	168.8	166.2	166.2
75°	7182.2	5048.8	623.7	407.6	274.7	183.7	156.6	149.6	145.2	143.5	142.6
77.5°	4025.4	2819.2	447.8	319.3	208.2	148.7	131.2	125.1	120.7	119.0	119.0
80°	1121.4	805.6	263.3	210.8	141.7	112.8	104.1	99.7	93.6	89.2	91.8
82.5°	422.5	349.0	150.4	126.8	90.1	75.2	72.6	69.1	66.5	60.4	60.4
85°	205.6	169.7	96.2	67.4	49.9	39.4	37.6	35.9	34.1	29.7	30.6
87.5°	70.9	75.2	42.0	24.5	14.9	9.6	7.9	4.4	4.4	4.4	4.4
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)