

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: P451879

Luminaire Tested: **GALN-SA2D-740-U-SL2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451879
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-SA2D-740-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 4000K, 1200mA 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: 15528 lumens
Efficiency: N/A
Efficacy: 124.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G3

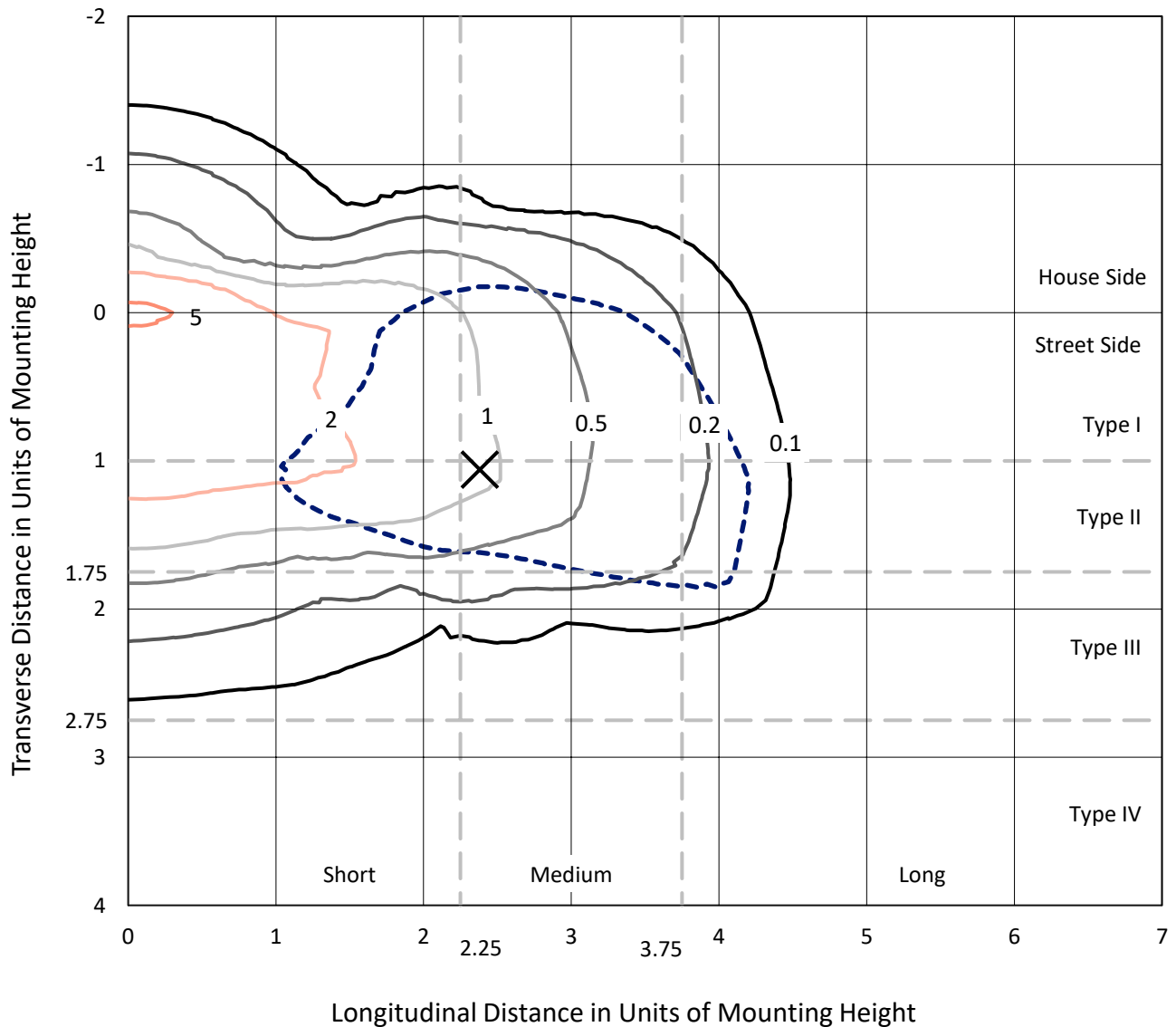
Input Watts (W): 125
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

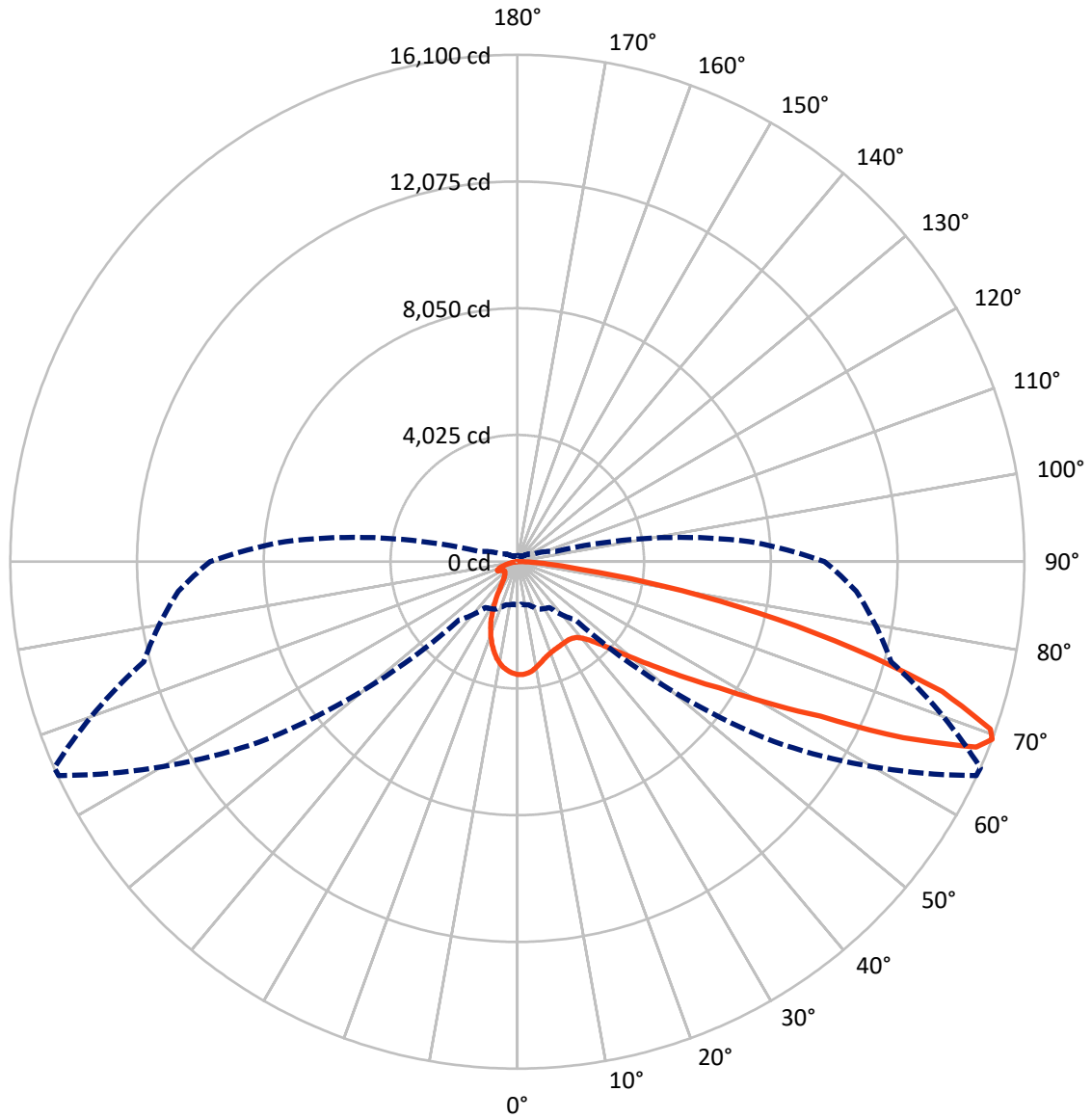
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 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	2920.2	0.0	2920.2
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	12607.8	0.0	12607.8
	% Fixture	81.2	0.0	81.2
Total	Lumens	15528.0	0.0	15528.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	311.4	2.0
10°-20°	738.6	4.8
20°-30°	1005.5	6.5
30°-40°	1351.2	8.7
40°-50°	2017.5	13.0
50°-60°	3209.2	20.7
60°-70°	3947.2	25.4
70°-80°	2568.2	16.5
80°-90°	379.2	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°	15528.0	100.0
0°-180°	15528.0	100.0

Coefficient of Utilization



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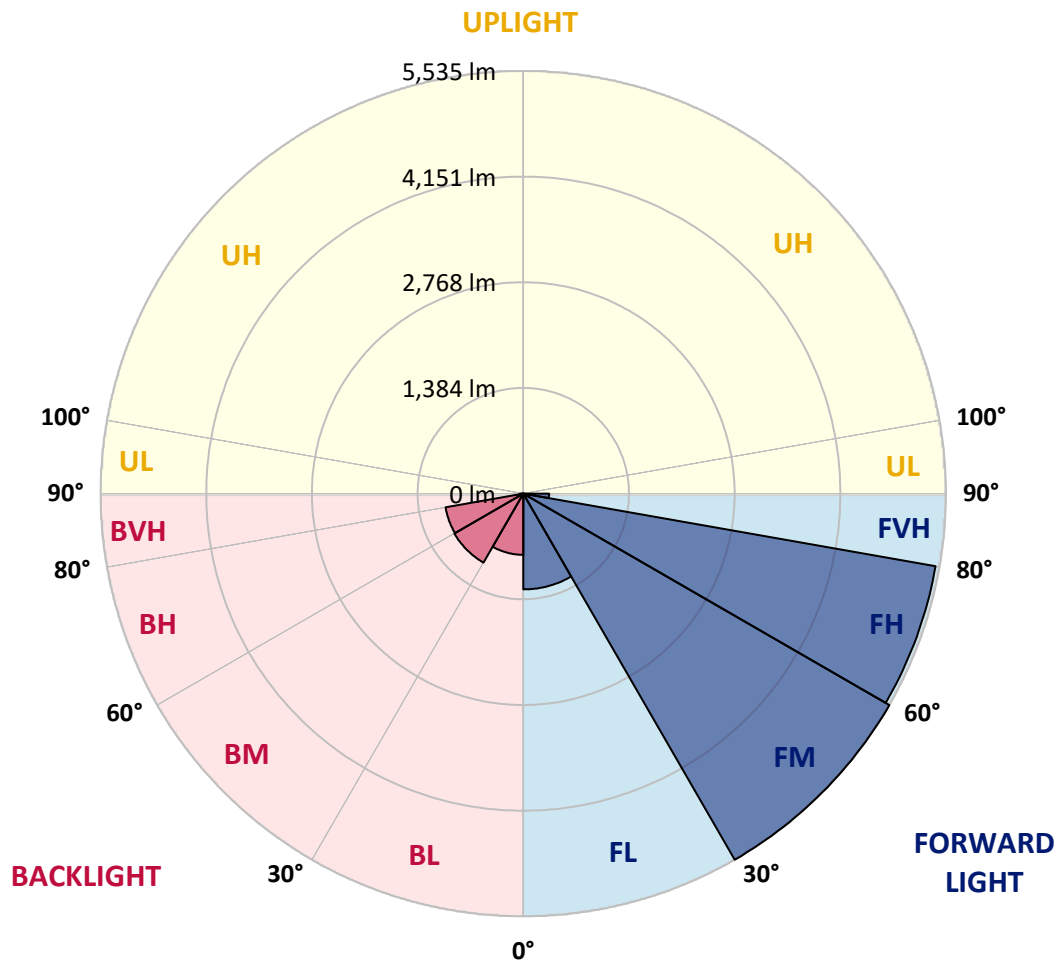
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1253.9	8.1			
FM	(30°-60°)	5535.3	35.6			
FH	(60°-80°)	5481.5	35.3			G3/7500
FVH	(80°-90°)	337.2	2.2			G3/500
BL	(0°-30°)	801.6	5.2	B2/1000		
BM	(30°-60°)	1042.7	6.7	B2/2500		
BH	(60°-80°)	1033.9	6.7	B3/2500		G3/2500
BVH	(80°-90°)	42.1	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°	3585.8	3585.8	3585.8	3585.8	3585.8	3585.8	3585.8	3585.8	3585.8	3585.8	3585.8
2.5°	3460.3	3474.1	3489.5	3506.7	3539.4	3557.5	3570.4	3585.0	3586.7	3594.4	3588.4
5°	3204.9	3221.2	3244.5	3277.1	3326.2	3402.7	3481.8	3546.3	3554.0	3590.1	3600.5
7.5°	2991.6	3001.1	3020.0	3072.5	3142.1	3227.3	3342.5	3473.2	3492.1	3578.1	3608.2
10°	2817.9	2827.4	2849.8	2903.9	2972.7	3079.4	3205.8	3377.7	3393.2	3541.1	3609.9
12.5°	2688.1	2696.7	2720.8	2774.1	2853.2	2952.9	3092.3	3274.6	3296.9	3492.1	3593.6
15°	2589.2	2605.5	2625.3	2669.2	2752.6	2848.9	2983.9	3180.0	3198.0	3440.5	3582.4
17.5°	2547.1	2554.8	2568.6	2609.0	2670.0	2764.6	2900.5	3106.0	3127.5	3404.4	3579.8
20°	2548.8	2556.5	2559.1	2581.5	2625.3	2707.0	2841.2	3047.5	3073.3	3372.6	3584.1
22.5°	2607.3	2608.1	2598.7	2590.9	2608.1	2676.1	2799.0	3003.7	3033.8	3358.8	3587.6
25°	2697.6	2713.0	2699.3	2663.2	2631.3	2664.0	2782.7	2979.6	3008.0	3339.1	3583.3
27.5°	2843.7	2846.3	2835.1	2786.1	2703.6	2679.5	2775.8	2961.5	2985.6	3324.4	3561.8
30°	3039.8	3032.1	3021.7	2967.6	2837.7	2738.8	2790.4	2945.2	2970.1	3302.9	3536.0
32.5°	3238.4	3262.5	3253.1	3189.4	3020.9	2854.1	2837.7	2943.5	2964.1	3286.6	3507.6
35°	3449.1	3460.3	3505.0	3472.3	3299.5	3040.7	2926.3	2970.1	2986.5	3287.5	3487.8
37.5°	3614.2	3644.3	3749.2	3777.6	3615.1	3287.5	3069.9	3045.8	3052.7	3329.6	3495.6
40°	3813.7	3865.3	4000.3	4116.4	4009.8	3608.2	3314.1	3186.0	3194.6	3431.1	3546.3
42.5°	4066.5	4102.7	4284.1	4441.5	4424.3	4032.1	3609.9	3415.6	3419.9	3633.1	3688.2
45°	4362.4	4413.9	4617.7	4854.2	4894.6	4512.0	4037.3	3763.0	3760.4	3947.0	3953.0
47.5°	4740.7	4772.5	4974.6	5232.6	5396.0	5114.8	4555.8	4261.7	4234.2	4404.5	4355.5
50°	5089.0	5138.9	5291.9	5574.0	5980.7	5820.8	5237.7	4908.4	4843.9	5003.0	4920.4
52.5°	5235.2	5287.6	5416.6	5766.6	6482.0	6734.0	6103.7	5679.7	5572.3	5694.4	5664.3
55°	4981.5	5049.4	5169.8	5595.5	6702.2	7787.4	7271.4	6571.5	6493.2	6440.8	6449.4
57.5°	4299.6	4364.1	4526.6	4996.1	6439.0	8551.9	8938.8	7717.7	7550.1	7308.4	7349.7
60°	3272.8	3313.3	3397.5	3917.8	5659.1	8750.5	10832.4	9166.7	9060.1	8172.6	8201.9
62.5°	2324.4	2369.9	2428.4	2688.1	4143.1	8190.7	12314.8	11190.1	10809.1	9067.8	9039.4
65°	1887.5	1856.6	1927.1	2048.3	2431.0	6347.9	12648.5	13998.6	13474.0	10246.8	9852.9
67.5°	1552.1	1519.5	1589.1	1805.0	1848.8	3684.7	11446.3	15821.6	15716.7	11528.9	10679.3
69°	1374.1	1356.9	1418.0	1663.9	1774.9	2616.7	9971.6	16075.3	16100.2	12284.7	10806.6
70°	1238.3	1245.2	1304.5	1592.6	1741.3	2157.5	8522.6	15725.3	15936.8	12662.3	10669.0
72.5°	911.5	926.1	1008.7	1319.1	1709.5	1830.8	5071.8	13735.4	14109.5	12684.6	9760.0
75°	637.2	630.3	703.4	993.2	1614.9	1814.4	2978.7	10622.5	11046.5	10963.9	8201.0
77.5°	417.1	428.2	486.7	701.7	1358.7	1800.7	1941.7	7536.3	7811.5	7332.5	4850.8
80°	294.1	293.2	325.9	479.0	1007.8	1730.1	1590.0	4750.2	4680.5	2881.6	1438.6
82.5°	168.5	180.6	218.4	337.1	674.2	1522.9	1462.7	2271.9	2074.1	821.2	485.9
85°	93.7	98.0	129.8	203.8	393.8	1147.1	1277.0	1033.6	975.1	343.1	209.0
87.5°	30.1	32.7	54.2	103.2	178.9	541.7	723.2	477.3	440.3	123.8	84.3
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°	3585.8	3585.8	3585.8	3585.8	3585.8	3585.8	3585.8	3585.8	3585.8	3585.8	3585.8
2.5°	3591.0	3601.3	3573.8	3547.2	3523.1	3489.5	3459.4	3434.5	3417.3	3414.7	3406.1
5°	3603.0	3603.9	3551.5	3480.9	3412.1	3336.5	3258.2	3202.3	3149.9	3120.6	3106.0
7.5°	3611.6	3603.9	3509.3	3394.9	3262.5	3124.9	2987.3	2877.3	2792.1	2758.6	2771.5
10°	3608.2	3584.1	3445.7	3262.5	3069.9	2864.4	2666.6	2511.8	2369.9	2296.8	2298.6
12.5°	3589.3	3549.7	3351.1	3113.8	2830.8	2555.7	2253.0	2044.0	1879.8	1782.6	1752.5
15°	3572.9	3504.2	3240.2	2911.7	2560.0	2167.0	1798.1	1540.1	1402.5	1326.0	1325.1
17.5°	3555.7	3460.3	3118.9	2697.6	2248.7	1743.0	1356.1	1159.2	1094.7	1102.4	1089.5
20°	3537.7	3408.7	2992.5	2459.4	1869.5	1300.2	1015.6	935.6	953.6	988.9	994.1
22.5°	3517.1	3353.7	2856.6	2197.1	1470.5	978.6	823.8	811.8	858.2	913.2	921.0
25°	3485.2	3284.9	2685.5	1922.8	1134.2	788.5	721.5	730.1	775.6	822.1	827.2
27.5°	3440.5	3199.7	2512.7	1580.5	852.2	676.8	659.6	670.7	693.1	721.5	728.3
30°	3380.3	3103.4	2314.0	1284.7	682.8	620.9	614.0	620.0	632.9	644.9	648.4
32.5°	3320.1	3010.6	2113.7	983.7	608.8	583.9	577.0	577.0	577.0	578.7	579.6
35°	3264.2	2922.9	1898.7	766.2	570.1	554.6	545.2	534.9	533.1	527.1	527.1
37.5°	3233.3	2842.9	1670.0	641.5	541.7	530.6	517.7	500.5	491.0	491.9	490.2
40°	3239.3	2790.4	1461.9	571.0	518.5	506.5	486.7	466.9	460.9	460.9	459.2
42.5°	3307.2	2773.2	1262.4	534.0	496.2	482.4	457.5	439.4	436.0	435.1	436.8
45°	3463.7	2815.4	1083.5	509.9	477.3	456.6	431.7	415.3	411.9	411.9	411.0
47.5°	3769.0	2952.1	955.4	494.5	463.5	436.8	411.0	394.7	388.7	387.0	387.0
50°	4243.7	3248.8	859.9	480.7	446.3	418.8	392.1	373.2	363.7	362.9	362.0
52.5°	4903.2	3711.4	822.9	470.4	427.4	399.9	370.6	352.6	340.5	337.9	336.2
55°	5674.6	4357.2	873.7	462.6	407.6	378.4	348.3	329.3	318.2	313.0	312.1
57.5°	6568.0	5132.8	1066.3	452.3	389.5	355.1	325.9	307.0	295.0	288.9	287.2
60°	7370.3	5930.0	1402.5	446.3	374.1	330.2	300.1	282.9	271.7	265.7	264.9
62.5°	8251.7	6690.1	1804.1	462.6	367.2	306.1	276.0	260.6	251.1	245.1	245.1
65°	9193.4	7451.2	2069.8	517.7	377.5	287.2	250.2	237.3	228.7	224.4	223.6
67.5°	9828.0	7714.3	1705.2	574.4	403.3	266.6	225.3	215.0	209.8	205.5	205.5
69°	9759.2	7381.5	1258.1	589.0	411.0	256.3	211.5	203.8	196.9	195.2	193.5
70°	9541.6	7002.3	1054.3	579.6	405.0	246.8	202.9	193.5	187.5	185.7	184.9
72.5°	8498.5	6072.7	785.1	503.9	344.8	214.1	179.7	171.1	166.0	163.4	163.4
75°	7060.8	4963.4	613.1	400.7	270.0	180.6	153.9	147.0	142.7	141.0	140.2
77.5°	3957.3	2771.5	440.3	313.9	204.7	146.2	129.0	123.0	118.7	116.9	116.9
80°	1102.4	792.0	258.8	207.2	139.3	110.9	102.3	98.0	92.0	87.7	90.3
82.5°	415.3	343.1	147.9	124.7	88.6	74.0	71.4	67.9	65.4	59.3	59.3
85°	202.1	166.8	94.6	66.2	49.0	38.7	37.0	35.3	33.5	29.2	30.1
87.5°	69.7	74.0	41.3	24.1	14.6	9.5	7.7	4.3	4.3	4.3	4.3
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)