

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: P452488

Luminaire Tested: **GALN-SA3C-722-U-SL2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452488
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-SA3C-722-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2200K, 1050mA 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: 15400 lumens
Efficiency: N/A
Efficacy: 96.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G3

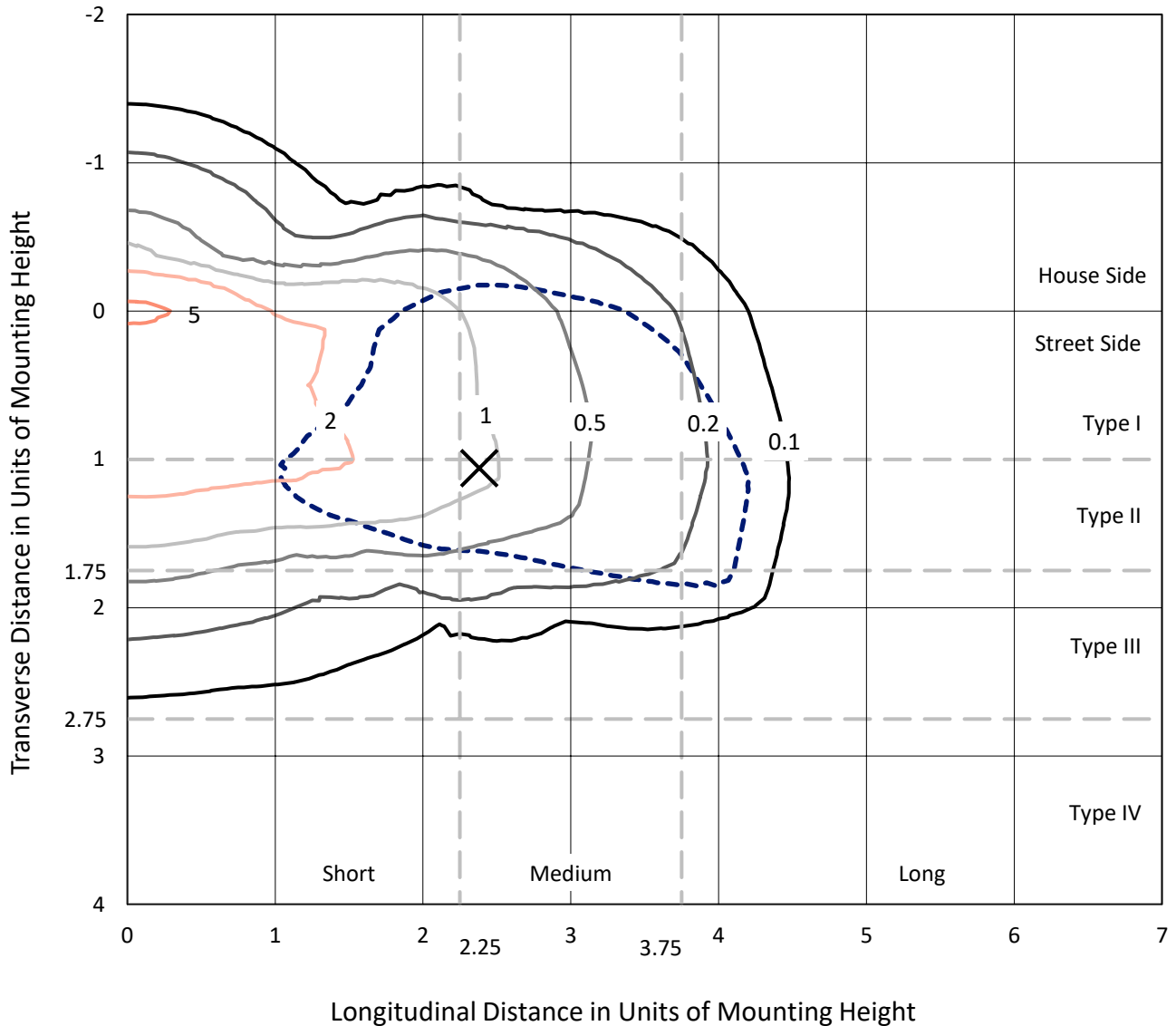
Input Watts (W): 160
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

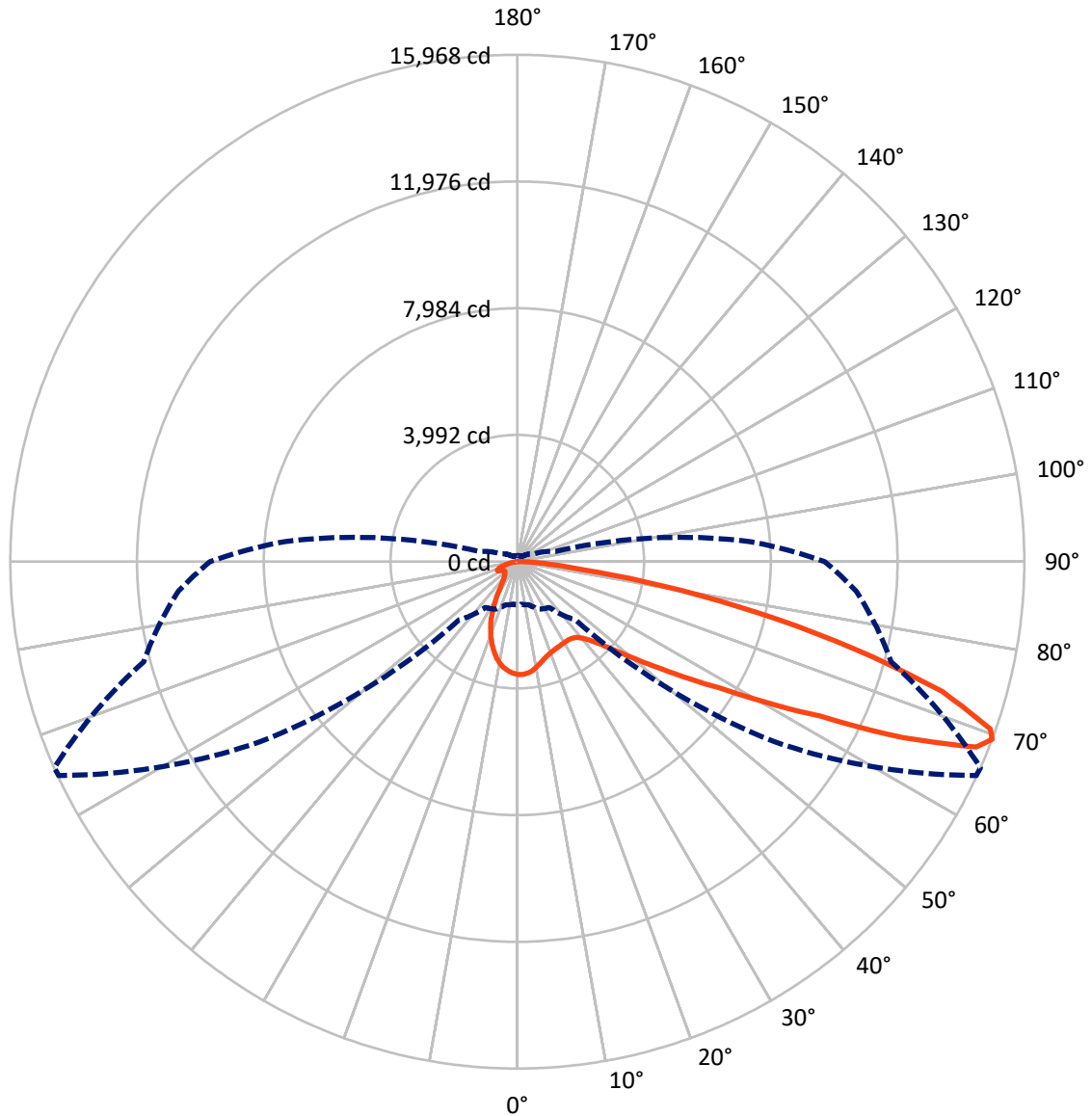
× Max cd
 - - - 1/2 Max cd



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	2896.2	0.0	2896.2
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	12503.8	0.0	12503.8
	% Fixture	81.2	0.0	81.2
Total	Lumens	15400.0	0.0	15400.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	308.8	2.0
10°-20°	732.5	4.8
20°-30°	997.2	6.5
30°-40°	1340.0	8.7
40°-50°	2000.9	13.0
50°-60°	3182.8	20.7
60°-70°	3914.6	25.4
70°-80°	2547.0	16.5
80°-90°	376.1	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°	15400.0	100.0
0°-180°	15400.0	100.0

Coefficient of Utilization



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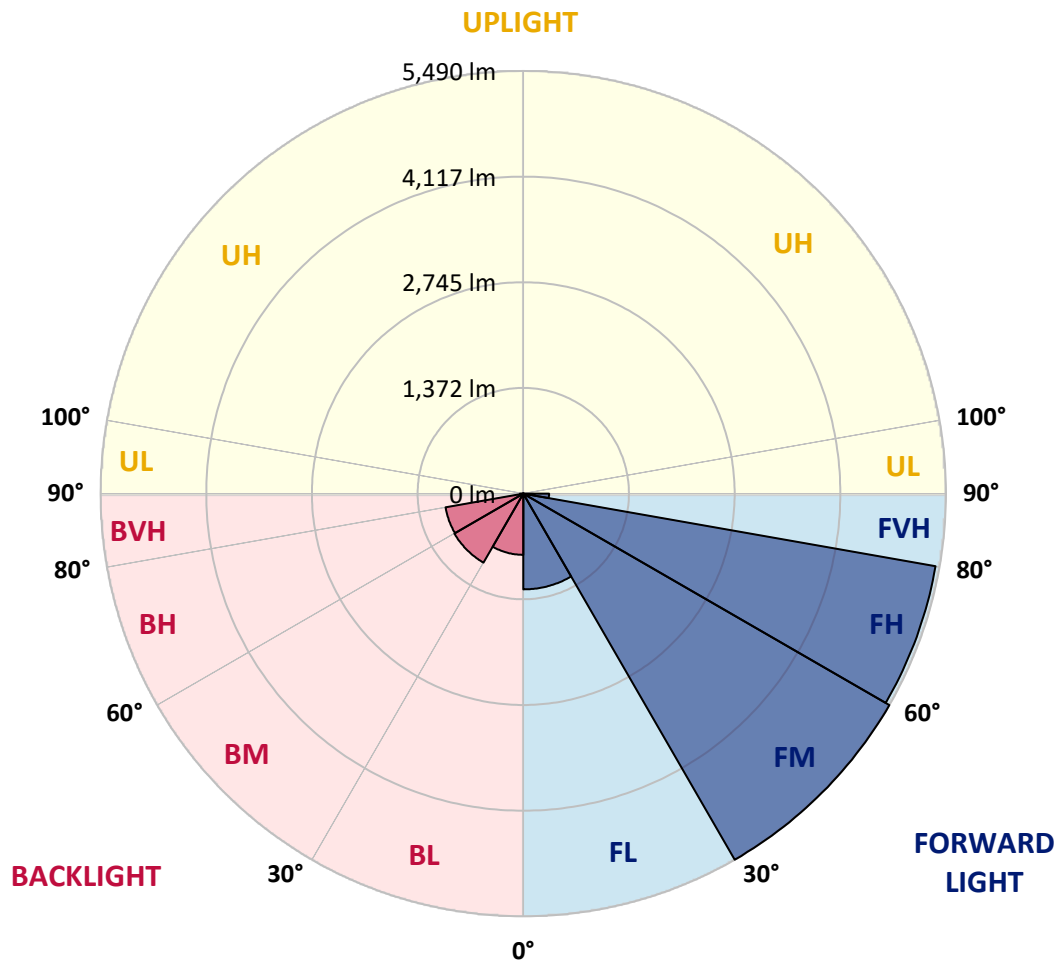
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1243.5	8.1			
FM	(30°-60°)	5489.6	35.6			
FH	(60°-80°)	5436.3	35.3			G3/7500
FVH	(80°-90°)	334.4	2.2			G3/500
BL	(0°-30°)	795.0	5.2	B2/1000		
BM	(30°-60°)	1034.1	6.7	B2/2500		
BH	(60°-80°)	1025.4	6.7	B3/2500		G3/2500
BVH	(80°-90°)	41.7	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°	3556.3	3556.3	3556.3	3556.3	3556.3	3556.3	3556.3	3556.3	3556.3	3556.3	3556.3
2.5°	3431.8	3445.4	3460.8	3477.8	3510.2	3528.1	3540.9	3555.4	3557.1	3564.8	3558.8
5°	3178.5	3194.7	3217.7	3250.1	3298.7	3374.6	3453.1	3517.1	3524.7	3560.6	3570.8
7.5°	2967.0	2976.4	2995.1	3047.2	3116.2	3200.7	3314.9	3444.6	3463.3	3548.6	3578.5
10°	2794.7	2804.1	2826.3	2880.0	2948.2	3054.0	3179.3	3349.9	3365.3	3511.9	3580.2
12.5°	2665.9	2674.5	2698.3	2751.2	2829.7	2928.6	3066.8	3247.6	3269.7	3463.3	3564.0
15°	2567.9	2584.1	2603.7	2647.2	2729.9	2825.4	2959.3	3153.8	3171.7	3412.2	3552.9
17.5°	2526.1	2533.7	2547.4	2587.5	2648.0	2741.8	2876.6	3080.4	3101.7	3376.3	3550.3
20°	2527.8	2535.5	2538.0	2560.2	2603.7	2684.7	2817.7	3022.4	3048.0	3344.8	3554.6
22.5°	2585.8	2586.6	2577.2	2569.6	2586.6	2654.0	2776.0	2978.9	3008.8	3331.1	3558.0
25°	2675.3	2690.7	2677.0	2641.2	2609.7	2642.1	2759.7	2955.0	2983.2	3311.5	3553.7
27.5°	2820.3	2822.9	2811.8	2763.2	2681.3	2657.4	2752.9	2937.1	2961.0	3297.0	3532.4
30°	3014.7	3007.1	2996.8	2943.1	2814.3	2716.3	2767.4	2920.9	2945.7	3275.7	3506.8
32.5°	3211.7	3235.6	3226.2	3163.1	2996.0	2830.5	2814.3	2919.2	2939.7	3259.5	3478.7
35°	3420.7	3431.8	3476.1	3443.7	3272.3	3015.6	2902.2	2945.7	2961.9	3260.4	3459.1
37.5°	3584.4	3614.3	3718.3	3746.5	3585.3	3260.4	3044.6	3020.7	3027.5	3302.1	3466.7
40°	3782.3	3833.5	3967.4	4082.5	3976.7	3578.5	3286.8	3159.7	3168.3	3402.8	3517.1
42.5°	4033.0	4068.8	4248.8	4404.9	4387.8	3998.9	3580.2	3387.4	3391.7	3603.2	3657.8
45°	4326.4	4377.6	4579.7	4814.2	4854.3	4474.8	4004.0	3732.0	3729.4	3914.5	3920.4
47.5°	4701.6	4733.2	4933.6	5189.5	5351.5	5072.6	4518.3	4226.6	4199.3	4368.2	4319.6
50°	5047.0	5096.5	5248.3	5528.0	5931.4	5772.8	5194.6	4867.9	4804.0	4961.7	4879.9
52.5°	5192.0	5244.0	5372.0	5719.1	6428.6	6678.5	6053.4	5632.9	5526.3	5647.4	5617.6
55°	4940.4	5007.8	5127.2	5549.3	6646.9	7723.2	7211.5	6517.3	6439.7	6387.7	6396.2
57.5°	4264.1	4328.1	4489.3	4954.9	6386.0	8481.4	8865.1	7654.1	7487.8	7248.2	7289.1
60°	3245.9	3285.9	3369.5	3885.5	5612.5	8678.4	10743.1	9091.1	8985.4	8105.3	8134.3
62.5°	2305.2	2350.4	2408.4	2665.9	4108.9	8123.2	12213.3	11097.8	10720.0	8993.1	8964.9
65°	1872.0	1841.3	1911.2	2031.4	2410.9	6295.6	12544.2	13883.2	13362.9	10162.3	9771.7
67.5°	1539.4	1506.9	1576.0	1790.1	1833.6	3654.4	11352.0	15691.2	15587.1	11433.8	10591.3
69°	1362.8	1345.8	1406.3	1650.2	1760.2	2595.2	9889.4	15942.7	15967.5	12183.5	10717.5
70°	1228.1	1234.9	1293.7	1579.4	1727.0	2139.7	8452.4	15595.6	15805.4	12557.9	10581.0
72.5°	904.0	918.5	1000.4	1308.2	1695.4	1815.7	5030.0	13622.2	13993.2	12580.0	9679.6
75°	631.9	625.1	697.6	985.0	1601.6	1799.5	2954.2	10535.0	10955.4	10873.5	8133.4
77.5°	413.6	424.7	482.7	695.9	1347.5	1785.8	1925.7	7474.2	7747.1	7272.1	4810.8
80°	291.7	290.8	323.2	475.0	999.5	1715.9	1576.9	4711.0	4641.9	2857.8	1426.8
82.5°	167.2	179.1	216.6	334.3	668.6	1510.4	1450.7	2253.2	2057.0	814.4	481.8
85°	93.0	97.2	128.8	202.1	390.6	1137.7	1266.4	1025.1	967.1	340.3	207.2
87.5°	29.8	32.4	53.7	102.3	177.4	537.3	717.2	473.3	436.6	122.8	83.6
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°	3556.3	3556.3	3556.3	3556.3	3556.3	3556.3	3556.3	3556.3	3556.3	3556.3	3556.3
2.5°	3561.4	3571.6	3544.3	3517.9	3494.0	3460.8	3430.9	3406.2	3389.1	3386.6	3378.0
5°	3573.3	3574.2	3522.2	3452.2	3384.0	3309.0	3231.4	3175.9	3123.9	3094.9	3080.4
7.5°	3581.9	3574.2	3480.4	3367.0	3235.6	3099.2	2962.7	2853.6	2769.1	2735.9	2748.7
10°	3578.5	3554.6	3417.3	3235.6	3044.6	2840.8	2644.6	2491.1	2350.4	2277.9	2279.6
12.5°	3559.7	3520.5	3323.5	3088.1	2807.5	2534.6	2234.4	2027.2	1864.3	1767.9	1738.1
15°	3543.5	3475.3	3213.5	2887.7	2538.9	2149.1	1783.3	1527.4	1391.0	1315.1	1314.2
17.5°	3526.4	3431.8	3093.2	2675.3	2230.1	1728.7	1344.9	1149.6	1085.6	1093.3	1080.5
20°	3508.5	3380.6	2967.8	2439.1	1854.0	1289.5	1007.2	927.9	945.8	980.8	985.9
22.5°	3488.1	3326.0	2833.1	2179.0	1458.3	970.5	817.0	805.1	851.1	905.7	913.4
25°	3456.5	3257.8	2663.4	1906.9	1124.9	782.0	715.5	724.0	769.2	815.3	820.4
27.5°	3412.2	3173.4	2492.0	1567.5	845.2	671.2	654.1	665.2	687.4	715.5	722.3
30°	3352.5	3077.9	2295.0	1274.1	677.1	615.7	608.9	614.9	627.7	639.6	643.0
32.5°	3292.8	2985.7	2096.2	975.6	603.8	579.1	572.2	572.2	572.2	574.0	574.8
35°	3237.3	2898.8	1883.0	759.9	565.4	550.1	540.7	530.5	528.8	522.8	522.8
37.5°	3206.6	2819.4	1656.2	636.2	537.3	526.2	513.4	496.3	487.0	487.8	486.1
40°	3212.6	2767.4	1449.8	566.3	514.3	502.3	482.7	463.1	457.1	457.1	455.4
42.5°	3280.0	2750.4	1251.9	529.6	492.1	478.4	453.7	435.8	432.4	431.5	433.2
45°	3435.2	2792.2	1074.6	505.7	473.3	452.9	428.1	411.9	408.5	408.5	407.7
47.5°	3737.9	2927.8	947.5	490.4	459.7	433.2	407.7	391.4	385.5	383.8	383.8
50°	4208.7	3222.0	852.8	476.7	442.6	415.3	388.9	370.1	360.7	359.9	359.0
52.5°	4862.8	3680.8	816.2	466.5	423.9	396.6	367.6	349.7	337.7	335.2	333.5
55°	5627.8	4321.3	866.5	458.8	404.2	375.2	345.4	326.6	315.5	310.4	309.6
57.5°	6513.9	5090.5	1057.5	448.6	386.3	352.2	323.2	304.5	292.5	286.5	284.8
60°	7309.6	5881.1	1391.0	442.6	371.0	327.5	297.6	280.6	269.5	263.5	262.7
62.5°	8183.7	6635.0	1789.2	458.8	364.2	303.6	273.8	258.4	249.0	243.1	243.1
65°	9117.6	7389.7	2052.8	513.4	374.4	284.8	248.2	235.4	226.9	222.6	221.7
67.5°	9747.0	7650.7	1691.2	569.7	400.0	264.4	223.4	213.2	208.1	203.8	203.8
69°	9678.7	7320.7	1247.7	584.2	407.7	254.1	209.8	202.1	195.3	193.6	191.9
70°	9463.0	6944.6	1045.6	574.8	401.7	244.8	201.3	191.9	185.9	184.2	183.4
72.5°	8428.5	6022.7	778.6	499.8	342.0	212.4	178.2	169.7	164.6	162.0	162.0
75°	7002.6	4922.5	608.1	397.4	267.8	179.1	152.7	145.8	141.6	139.9	139.0
77.5°	3924.7	2748.7	436.6	311.3	203.0	145.0	127.9	122.0	117.7	116.0	116.0
80°	1093.3	785.5	256.7	205.5	138.2	110.0	101.5	97.2	91.3	87.0	89.5
82.5°	411.9	340.3	146.7	123.7	87.8	73.3	70.8	67.4	64.8	58.8	58.8
85°	200.4	165.4	93.8	65.7	48.6	38.4	36.7	35.0	33.3	29.0	29.8
87.5°	69.1	73.3	40.9	23.9	14.5	9.4	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)