

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: P451941

Luminaire Tested: **GALN-SA2D-760-U-SL4**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451941
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-18)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA2D-760-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 5700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15228 lumens
Efficiency: N/A
Efficacy: 121.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

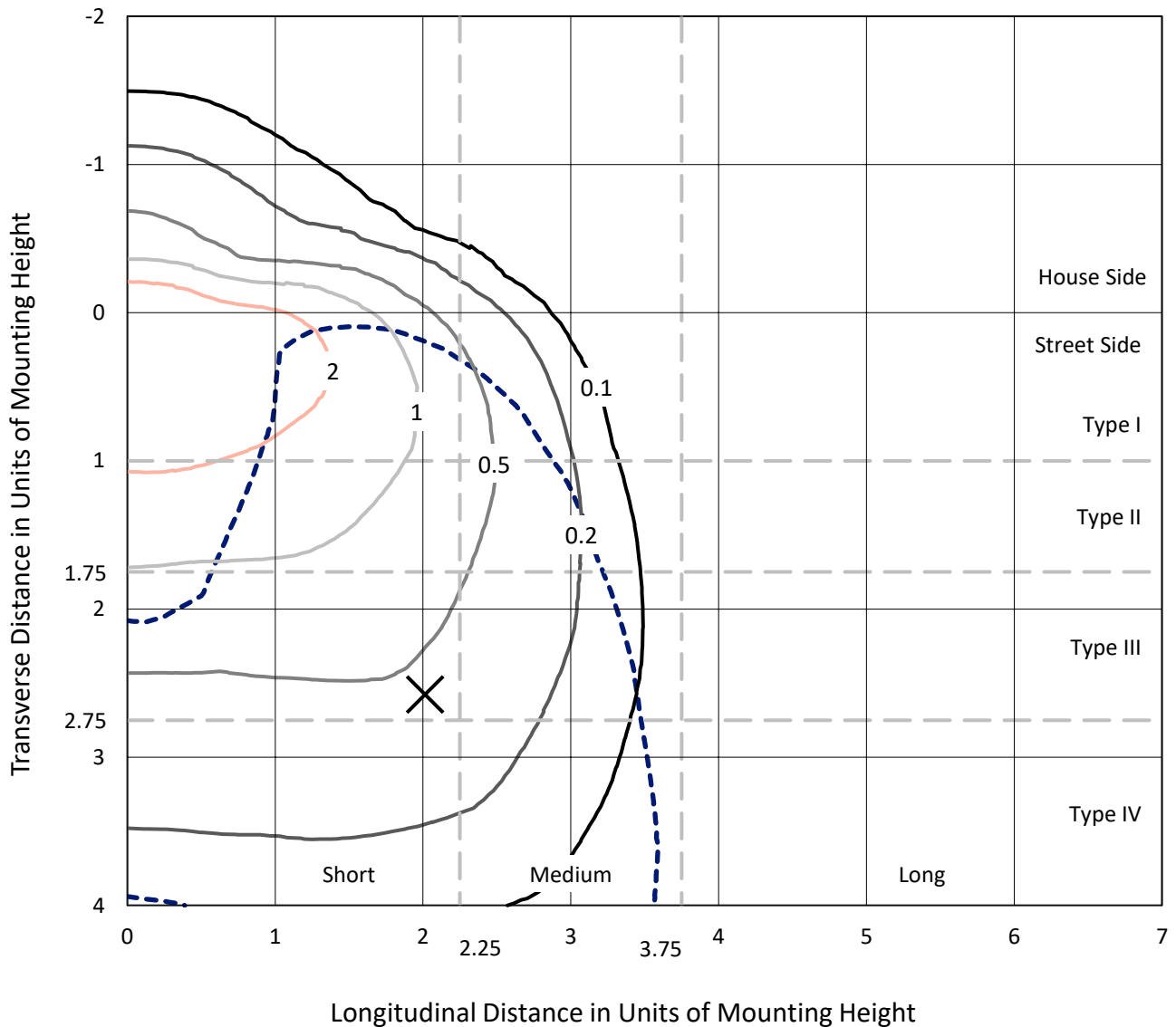
Input Watts (W): 125
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

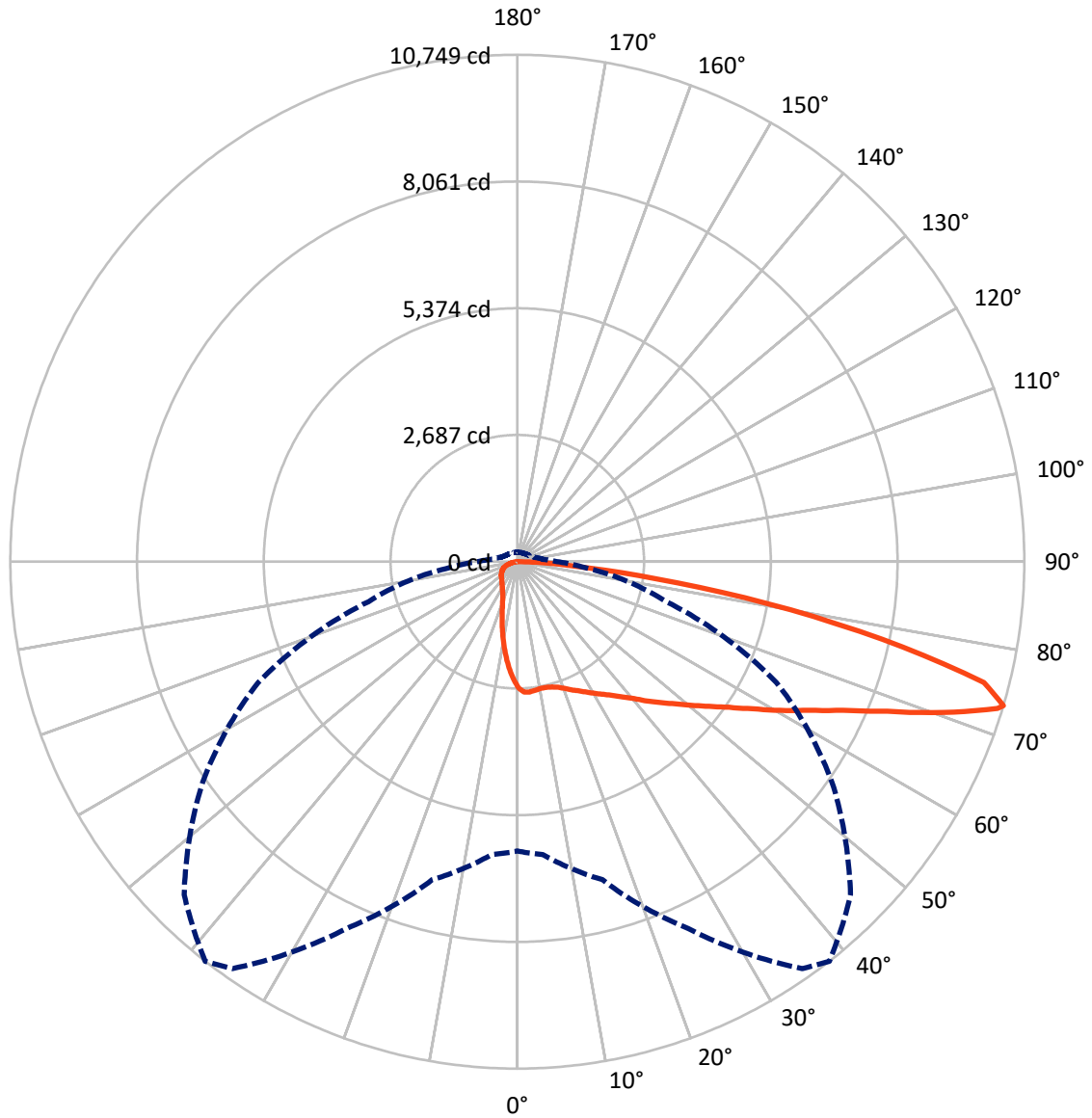
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2047.1	0.0	2047.1
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	13180.9	0.0	13180.9
	% Fixture	86.6	0.0	86.6
Total	Lumens	15228.0	0.0	15228.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	233.5	1.5
10°-20°	598.8	3.9
20°-30°	932.5	6.1
30°-40°	1367.8	9.0
40°-50°	2028.9	13.3
50°-60°	2874.6	18.9
60°-70°	3646.5	23.9
70°-80°	3035.4	19.9
80°-90°	510.0	3.3
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°	15228.0	100.0
0°-180°	15228.0	100.0

Coefficient of Utilization



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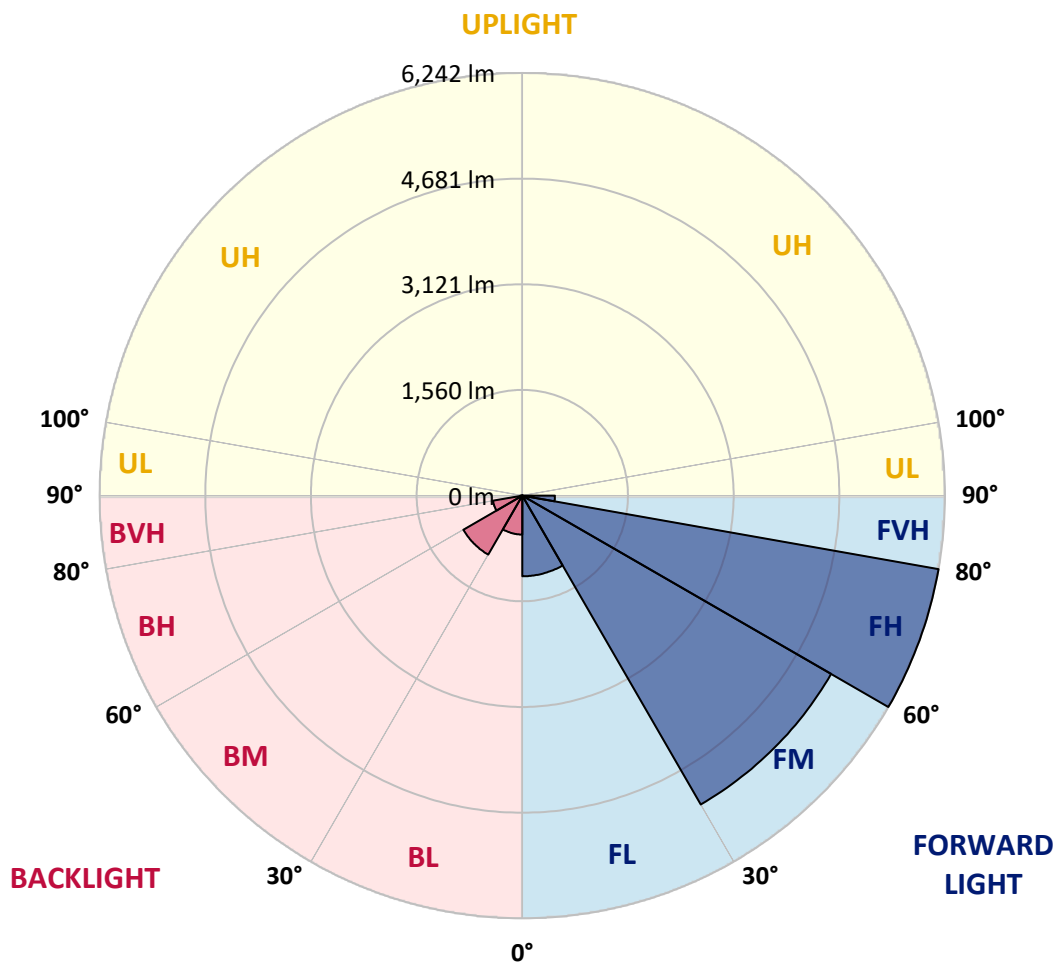
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1190.4	7.8			
FM	(30°-60°)	5266.3	34.6			
FH	(60°-80°)	6241.9	41.0			G3/7500
FVH	(80°-90°)	482.3	3.2			G3/500
BL	(0°-30°)	574.4	3.8	B2/1000		
BM	(30°-60°)	1005.0	6.6	B2/2500		
BH	(60°-80°)	440.0	2.9	B1/500		G1/500
BVH	(80°-90°)	27.7	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	2675.3	2675.3	2675.3	2675.3	2675.3	2675.3	2675.3	2675.3	2675.3	2675.3	2675.3
2.5°	2782.8	2796.6	2789.7	2780.2	2774.2	2768.2	2759.6	2734.6	2714.9	2693.4	2659.8
5°	2803.4	2812.0	2806.0	2794.0	2780.2	2774.2	2757.9	2725.2	2693.4	2657.2	2607.4
7.5°	2791.4	2794.8	2788.0	2773.3	2761.3	2750.1	2731.2	2695.1	2656.4	2612.5	2547.2
10°	2748.4	2761.3	2761.3	2749.3	2737.2	2731.2	2712.3	2677.9	2642.6	2592.7	2515.4
12.5°	2713.1	2726.9	2738.1	2734.6	2733.8	2733.8	2719.2	2693.4	2652.1	2604.8	2512.8
15°	2689.1	2705.4	2729.5	2743.2	2751.8	2754.4	2748.4	2726.0	2683.9	2628.9	2523.1
17.5°	2683.9	2703.7	2747.5	2777.6	2800.0	2799.1	2797.4	2766.5	2720.0	2663.3	2536.0
20°	2707.1	2732.9	2794.0	2841.3	2873.9	2867.9	2858.5	2818.1	2763.9	2700.2	2548.0
22.5°	2776.8	2803.4	2870.5	2922.1	2953.9	2953.9	2925.5	2872.2	2814.6	2743.2	2564.4
25°	2876.5	2905.8	2977.1	3029.6	3044.2	3033.0	3004.7	2940.2	2873.9	2805.2	2598.8
27.5°	2998.6	3033.9	3100.1	3144.0	3139.7	3131.1	3101.8	3019.3	2953.1	2890.3	2657.2
30°	3150.9	3176.7	3245.4	3255.8	3240.3	3238.6	3197.3	3114.7	3052.8	3004.7	2740.7
32.5°	3294.5	3317.7	3372.7	3377.0	3349.5	3352.9	3314.2	3238.6	3203.3	3186.1	2880.8
35°	3446.7	3458.7	3506.0	3500.9	3482.8	3480.2	3464.7	3392.5	3403.7	3434.6	3079.5
37.5°	3573.9	3598.0	3624.7	3629.0	3628.1	3636.7	3647.0	3612.6	3677.1	3774.3	3340.0
40°	3690.9	3711.5	3751.1	3764.9	3798.4	3815.6	3850.9	3851.7	4000.5	4160.4	3660.8
42.5°	3770.0	3805.3	3879.2	3904.2	3985.9	4037.5	4089.9	4145.8	4361.7	4567.2	4039.2
45°	3838.8	3885.2	4008.2	4085.6	4196.6	4259.3	4370.3	4487.2	4797.7	5066.8	4423.6
47.5°	3942.9	3984.1	4125.2	4261.9	4429.6	4501.8	4667.8	4842.4	5248.3	5543.2	4791.6
50°	4087.3	4112.3	4255.9	4478.6	4692.7	4785.6	5004.9	5256.9	5729.8	6013.6	5115.0
52.5°	4272.2	4282.5	4396.9	4693.6	4975.7	5090.9	5381.6	5675.7	6151.2	6422.1	5371.2
55°	4490.7	4473.5	4562.9	4921.5	5299.0	5449.5	5761.7	6099.6	6625.0	6752.3	5557.9
57.5°	4706.5	4679.8	4751.2	5198.4	5698.0	5879.5	6243.2	6536.5	7048.1	7061.0	5688.6
60°	4935.2	4915.5	5000.6	5523.5	6187.3	6402.3	6738.6	6989.7	7457.5	7276.0	5709.2
62.5°	5170.0	5138.2	5259.4	5888.9	6738.6	6933.8	7259.7	7471.2	7859.1	7356.0	5510.6
65°	5397.9	5383.3	5570.7	6323.2	7366.3	7588.2	7904.7	8048.3	8180.7	7235.6	5017.8
67.5°	5640.4	5669.6	5968.9	6902.8	8185.0	8463.6	8805.0	8670.0	8272.7	6665.5	4225.8
70°	6010.2	6029.1	6491.8	7662.1	9240.2	9576.4	9741.5	8891.0	7829.0	5582.8	3176.7
72.5°	6169.3	6252.7	6958.7	8459.3	10438.9	10644.4	10056.2	8398.3	6521.9	3792.4	1669.2
73°	6134.0	6233.8	6980.2	8580.6	10532.7	10748.5	9989.2	8144.6	6062.6	3266.1	1431.0
75°	5694.6	5817.6	6700.7	8479.1	10350.3	10221.4	8910.8	6941.5	4096.8	1485.1	651.8
77.5°	4493.2	4528.5	5309.3	6846.9	8150.6	7911.5	6668.9	4338.4	1673.5	552.1	369.8
80°	2253.9	2383.8	2992.6	3922.2	5450.4	5372.1	4209.5	2051.8	697.4	324.2	245.1
82.5°	1084.4	1176.4	1457.6	1912.5	3011.5	2940.2	2084.5	1121.4	442.9	189.2	144.5
85°	698.3	767.1	927.9	912.4	1238.3	1182.4	936.5	848.8	262.3	98.9	100.6
87.5°	460.9	504.8	605.4	484.2	450.6	407.6	413.6	478.1	51.6	37.8	13.8
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°	2675.3	2675.3	2675.3	2675.3	2675.3	2675.3	2675.3	2675.3	2675.3	2675.3	2675.3
2.5°	2646.1	2634.9	2597.9	2561.8	2527.4	2494.7	2473.2	2444.8	2425.9	2431.1	2438.8
5°	2579.8	2554.9	2489.6	2425.9	2365.7	2294.3	2236.7	2190.3	2155.0	2142.1	2139.6
7.5°	2510.2	2468.1	2374.3	2265.1	2162.8	2074.2	1971.9	1921.1	1861.8	1841.2	1834.3
10°	2468.1	2411.3	2279.7	2127.5	1973.6	1826.5	1715.6	1625.3	1543.6	1528.1	1520.4
12.5°	2456.0	2381.2	2204.0	2008.0	1803.3	1622.7	1458.5	1339.8	1260.7	1242.6	1216.0
15°	2449.1	2356.3	2133.5	1887.6	1627.9	1407.7	1234.9	1096.4	1024.2	976.0	976.9
17.5°	2443.1	2327.9	2054.4	1756.0	1476.5	1222.8	1031.9	907.2	841.0	815.2	812.7
20°	2434.5	2294.3	1963.3	1617.6	1303.7	1054.3	881.4	788.6	743.9	722.4	721.5
22.5°	2431.1	2261.7	1873.8	1476.5	1150.6	924.4	781.7	716.3	688.0	673.3	673.3
25°	2439.7	2238.4	1780.1	1342.4	1014.7	813.5	712.9	668.2	651.8	644.1	641.5
27.5°	2466.3	2228.1	1687.2	1208.2	890.0	737.8	666.5	635.5	623.5	617.4	618.3
30°	2517.1	2227.3	1596.1	1075.8	797.2	680.2	629.5	608.0	598.5	595.1	594.2
32.5°	2598.8	2246.2	1506.6	966.6	718.9	632.1	595.1	579.6	575.3	572.7	571.9
35°	2737.2	2299.5	1418.1	866.8	658.7	589.1	562.4	554.7	548.6	551.2	552.1
37.5°	2923.8	2391.5	1333.8	788.6	613.1	557.2	534.9	528.0	524.6	527.1	529.7
40°	3174.1	2524.0	1263.3	725.8	580.5	530.6	510.8	504.8	501.4	505.7	506.5
42.5°	3450.1	2677.0	1204.8	676.8	553.8	508.2	489.3	482.4	479.9	482.4	483.3
45°	3733.9	2855.0	1174.7	641.5	531.4	491.9	472.1	464.4	458.4	456.6	459.2
47.5°	4013.4	3009.8	1173.8	620.0	513.4	477.3	455.8	447.2	439.4	435.1	434.3
50°	4241.3	3132.8	1194.5	610.6	497.9	460.9	439.4	430.8	420.5	411.9	413.6
52.5°	4413.3	3212.8	1203.9	606.3	489.3	443.7	422.2	414.5	402.5	391.3	391.3
55°	4524.2	3231.7	1180.7	602.0	482.4	425.7	402.5	395.6	383.5	372.4	372.4
57.5°	4562.0	3173.2	1097.3	591.6	475.6	410.2	382.7	376.7	367.2	356.0	354.3
60°	4474.3	2975.4	951.1	560.7	461.8	393.9	361.2	358.6	355.2	345.7	344.8
62.5°	4136.4	2555.8	792.0	520.3	438.6	376.7	341.4	345.7	348.3	343.1	342.3
65°	3573.9	2075.1	676.8	464.4	407.6	352.6	319.9	331.1	338.0	338.0	336.2
67.5°	2898.9	1593.5	570.1	416.2	368.9	319.9	295.8	304.4	309.6	307.9	312.2
70°	2060.4	1079.2	464.4	361.2	319.9	282.9	264.9	264.9	261.4	259.7	259.7
72.5°	999.3	616.6	376.7	301.8	272.6	241.6	227.0	221.0	214.1	213.3	209.0
73°	835.0	552.9	359.5	290.7	261.4	235.6	219.3	209.8	205.5	202.1	201.2
75°	508.2	419.7	300.1	245.1	222.7	202.9	188.3	179.7	175.4	172.8	172.0
77.5°	334.5	313.0	233.0	187.5	170.3	158.2	152.2	143.6	141.0	137.6	137.6
80°	249.4	239.1	166.8	132.4	122.1	111.8	110.1	108.4	101.5	97.2	95.5
82.5°	160.8	170.3	113.5	88.6	77.4	68.8	69.7	72.2	65.4	59.3	57.6
85°	114.4	123.0	68.8	40.4	32.7	28.4	31.8	28.4	29.2	23.2	18.9
87.5°	18.9	32.7	12.0	5.2	2.6	1.7	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)