

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: P451997

Luminaire Tested: **GALN-SA2D-830-U-SL3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451997
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-SA2D-830-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 1200mA 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: 12253 lumens
Efficiency: N/A
Efficacy: 98.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 125
Input Voltage (V): NR
Input Current (Ain): 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

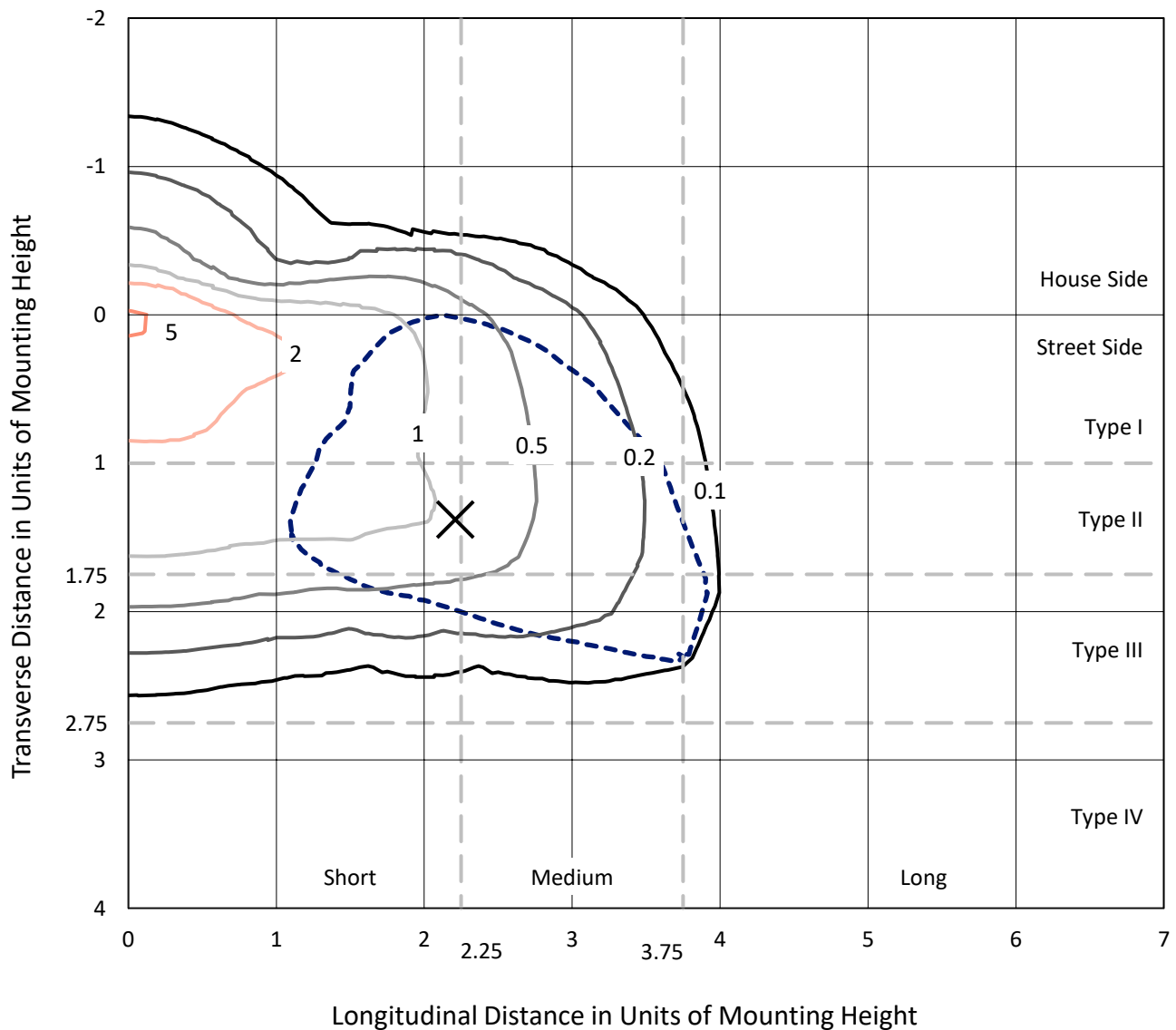


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Iso-Footcandle Lines of Horizontal Illumination

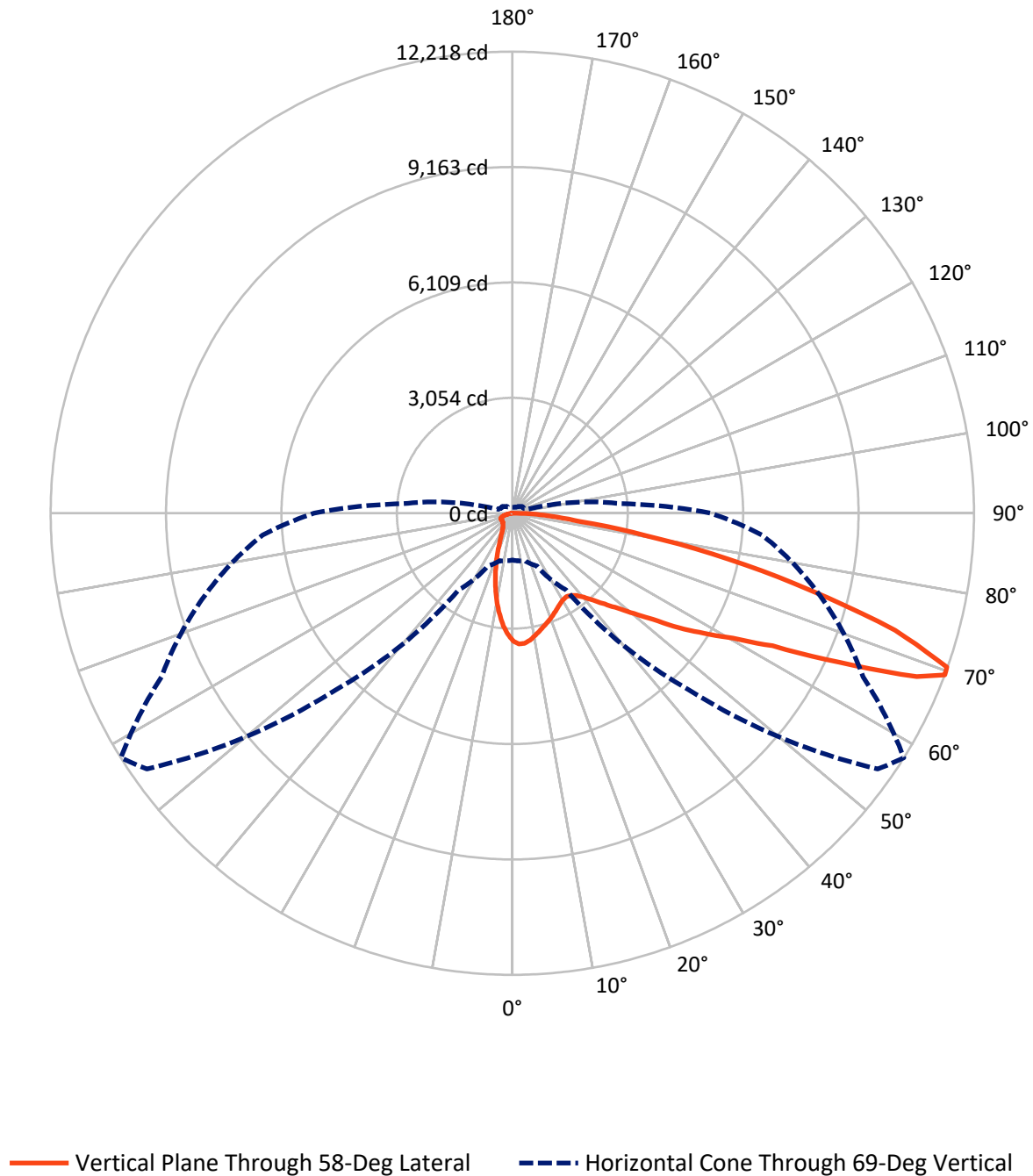
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1795.7	0.0	1795.7
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	10457.3	0.0	10457.3
	% Fixture	85.3	0.0	85.3
Total	Lumens	12253.0	0.0	12253.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	287.6	2.3
10°-20°	631.4	5.2
20°-30°	815.8	6.7
30°-40°	1059.6	8.6
40°-50°	1540.5	12.6
50°-60°	2458.1	20.1
60°-70°	3283.7	26.8
70°-80°	1892.9	15.4
80°-90°	283.5	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°	12253.0	100.0
0°-180°	12253.0	100.0

Coefficient of Utilization



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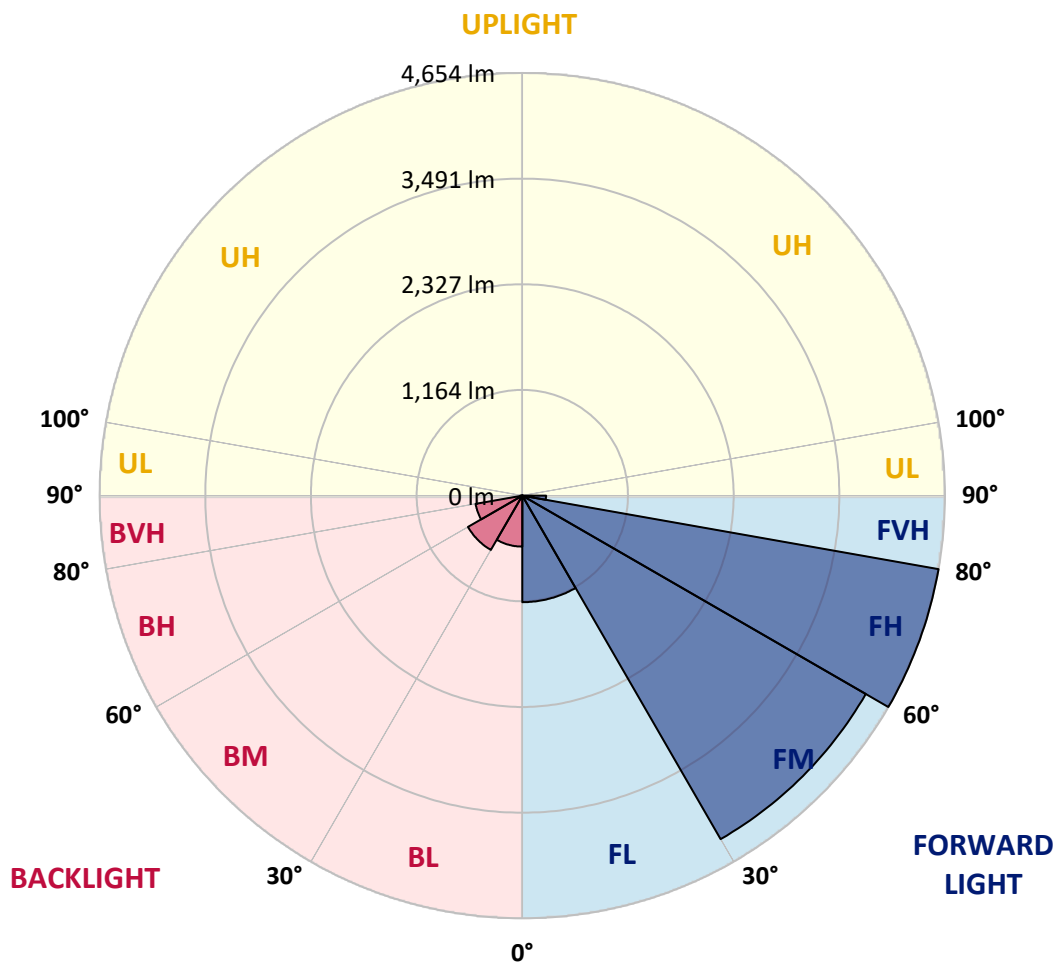
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1173.5	9.6			
FM	(30°-60°)	4367.6	35.6			
FH	(60°-80°)	4654.4	38.0			G2/5000
FVH	(80°-90°)	261.8	2.1			G3/500
BL	(0°-30°)	561.3	4.6	B2/1000		
BM	(30°-60°)	690.6	5.6	B1/1000		
BH	(60°-80°)	522.1	4.3	B2/1000		G2/1000
BVH	(80°-90°)	21.7	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 III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	3386.0	3386.0	3386.0	3386.0	3386.0	3386.0	3386.0	3386.0	3386.0	3386.0	3386.0
2.5°	3511.7	3521.3	3518.6	3515.2	3509.7	3494.7	3470.1	3466.0	3450.2	3416.8	3375.1
5°	3457.8	3466.0	3466.6	3471.4	3478.3	3475.5	3457.8	3455.7	3432.5	3387.4	3317.7
7.5°	3272.6	3283.5	3307.4	3334.1	3358.0	3380.5	3386.0	3389.4	3375.1	3323.1	3230.2
10°	3064.2	3075.1	3086.0	3125.7	3184.4	3240.5	3286.9	3293.1	3296.5	3248.7	3135.2
12.5°	2833.2	2855.7	2879.0	2937.7	3016.3	3104.5	3186.5	3199.5	3222.7	3186.5	3053.2
15°	2637.1	2660.3	2693.8	2746.4	2841.4	2968.5	3084.0	3105.2	3150.9	3132.5	2976.7
17.5°	2501.1	2509.3	2532.5	2592.6	2695.1	2829.1	2983.5	3025.9	3099.0	3094.2	2911.1
20°	2393.8	2404.0	2418.4	2455.3	2561.9	2703.3	2889.9	2944.6	3043.7	3060.1	2846.2
22.5°	2348.7	2356.2	2354.1	2374.0	2446.4	2588.5	2794.9	2859.8	2994.5	3036.8	2786.0
25°	2351.4	2358.2	2348.0	2343.2	2386.3	2487.4	2695.8	2778.5	2954.8	3021.1	2731.4
27.5°	2397.2	2402.0	2382.9	2363.7	2367.1	2424.5	2613.8	2705.4	2921.3	3027.9	2685.6
30°	2458.7	2467.6	2455.3	2432.1	2406.8	2409.5	2561.2	2651.4	2905.6	3051.9	2663.7
32.5°	2538.0	2546.2	2540.7	2522.3	2489.5	2453.2	2548.2	2631.6	2907.0	3100.4	2658.9
35°	2621.3	2637.7	2646.6	2645.3	2618.6	2555.7	2599.5	2668.5	2939.8	3181.7	2686.9
37.5°	2715.6	2729.3	2767.6	2792.2	2767.6	2694.5	2715.0	2762.8	3012.2	3299.2	2748.4
40°	2807.2	2827.7	2883.7	2960.3	2950.7	2886.5	2891.3	2922.7	3140.0	3474.2	2868.7
42.5°	2902.9	2927.5	3025.2	3138.6	3161.2	3111.3	3124.3	3152.3	3321.8	3716.8	3075.1
45°	3025.9	3055.3	3175.5	3317.0	3405.8	3375.1	3412.0	3425.6	3565.1	4032.5	3347.1
47.5°	3184.4	3218.6	3366.9	3543.2	3668.9	3696.9	3761.2	3753.0	3866.4	4406.3	3699.7
50°	3451.6	3470.7	3610.8	3790.6	3963.4	4089.9	4159.6	4172.6	4240.2	4769.8	4094.0
52.5°	3769.4	3786.5	3887.6	4044.8	4261.4	4529.3	4701.5	4659.1	4675.5	5212.6	4555.2
55°	4126.8	4155.5	4219.7	4324.3	4605.1	4999.4	5345.2	5355.4	5173.7	5636.3	4997.4
57.5°	4403.5	4452.0	4562.1	4711.0	5067.1	5522.2	5986.9	5993.7	5761.3	6088.7	5485.3
60°	4264.1	4321.5	4573.0	4935.9	5673.2	6434.4	6753.6	6714.6	6333.3	6603.9	6080.5
62.5°	3662.8	3673.0	4038.6	4605.8	5859.7	7654.9	7894.8	7730.1	7096.6	7257.2	6685.2
65°	2370.5	2437.5	2727.3	3522.0	5246.8	8332.1	9894.3	9513.6	8166.7	7998.6	7191.6
67.5°	1496.5	1479.5	1599.7	2011.1	3608.8	7735.6	11600.6	11540.5	9566.3	8466.7	7070.6
69°	1241.0	1260.1	1301.1	1541.6	2483.3	6604.6	11802.2	12217.7	10244.8	8429.8	6631.3
70°	1125.5	1134.4	1177.4	1366.7	1916.1	5531.7	11471.4	12199.2	10511.3	8275.4	6312.8
72.5°	893.1	892.5	966.3	1137.1	1432.3	3157.8	9419.3	10591.3	10213.4	7556.5	5216.0
75°	678.6	689.5	770.8	962.2	1319.6	1725.5	6573.2	8156.5	8157.2	5968.4	3254.8
77.5°	489.3	496.1	591.1	807.7	1243.0	1398.8	4378.2	5850.2	5499.6	2734.8	1023.0
80°	320.5	324.6	397.0	639.6	1120.7	1319.6	2596.1	3580.8	2594.0	725.7	338.3
82.5°	175.6	196.1	242.6	414.1	899.3	1219.1	1577.9	1812.3	973.1	323.2	176.3
85°	88.2	93.6	136.7	241.9	587.7	1008.6	1098.8	1039.4	502.3	160.6	91.6
87.5°	26.0	32.8	56.7	93.6	238.5	525.5	611.6	548.7	193.4	58.1	19.1
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°	3386.0	3386.0	3386.0	3386.0	3386.0	3386.0	3386.0	3386.0	3386.0	3386.0	3386.0
2.5°	3358.0	3345.7	3291.0	3241.8	3196.7	3148.9	3108.6	3073.0	3076.5	3077.1	3040.9
5°	3281.5	3253.4	3149.6	3052.5	2970.5	2866.7	2777.8	2720.4	2691.7	2653.5	2667.1
7.5°	3177.6	3123.6	2979.4	2818.1	2667.1	2532.5	2386.3	2285.8	2221.6	2159.4	2167.6
10°	3070.3	2983.5	2773.7	2560.5	2365.1	2149.8	1963.3	1803.4	1684.5	1640.0	1610.7
12.5°	2960.3	2846.2	2579.7	2296.1	2026.1	1768.5	1504.1	1332.5	1201.3	1131.6	1140.5
15°	2859.8	2721.1	2377.4	2031.6	1681.0	1374.2	1110.4	947.1	855.6	836.4	847.4
17.5°	2766.9	2585.1	2188.1	1774.7	1365.3	1030.5	834.4	742.1	705.2	695.0	694.3
20°	2671.2	2469.6	1975.6	1500.0	1064.0	798.8	684.7	641.7	634.8	638.9	639.6
22.5°	2574.2	2326.8	1756.9	1227.3	847.4	653.3	598.6	587.0	592.5	602.0	603.4
25°	2484.7	2201.1	1546.4	988.1	676.5	574.0	547.4	547.4	559.7	574.0	574.7
27.5°	2410.9	2079.4	1336.6	784.5	566.5	516.6	507.7	512.5	529.6	540.5	541.2
30°	2350.0	1966.0	1138.5	628.7	498.2	470.8	468.8	477.0	489.3	499.5	500.2
32.5°	2304.3	1866.2	953.3	528.2	451.0	436.0	435.3	441.4	448.3	451.0	453.7
35°	2286.5	1783.6	783.8	464.7	419.6	410.0	410.0	409.3	412.1	413.4	414.8
37.5°	2300.8	1720.0	652.6	423.7	396.3	389.5	385.4	381.3	379.9	379.9	380.6
40°	2361.7	1686.5	554.9	397.0	379.9	369.7	362.2	357.4	352.6	354.0	355.3
42.5°	2490.8	1692.7	488.6	379.3	365.6	351.2	340.3	334.8	331.4	335.5	334.8
45°	2696.5	1754.2	446.2	367.0	351.2	332.8	322.5	317.1	317.1	323.2	325.3
47.5°	2984.2	1871.7	423.7	357.4	340.3	318.4	308.2	304.1	305.5	315.7	316.4
50°	3335.4	2076.0	419.6	352.6	334.8	308.2	296.6	292.5	295.9	306.8	308.2
52.5°	3722.9	2339.1	439.4	353.3	330.1	302.0	287.0	280.9	284.3	293.2	295.9
55°	4182.1	2668.5	490.6	356.0	323.2	298.6	280.2	266.5	270.6	276.8	277.4
57.5°	4650.9	3084.0	580.8	356.7	317.8	292.5	268.6	250.8	250.8	254.9	256.9
60°	5223.5	3536.3	699.8	357.4	318.4	283.6	252.8	233.0	230.3	232.3	233.0
62.5°	5792.1	3914.9	719.6	355.3	325.3	274.7	235.8	215.3	210.5	209.8	208.4
65°	6042.9	3844.5	589.7	345.8	332.8	269.2	222.1	198.2	190.0	187.2	187.2
67.5°	5634.2	3252.1	443.5	332.8	328.0	263.8	209.1	183.8	174.3	168.8	168.8
69°	5250.2	2892.6	398.4	323.9	315.7	254.9	200.9	176.3	164.7	158.5	156.5
70°	4953.6	2645.3	379.3	316.4	304.1	244.6	194.8	170.8	157.9	151.0	149.7
72.5°	3953.2	2075.3	332.1	287.7	259.0	205.7	172.9	153.8	141.5	133.9	131.9
75°	2278.3	1124.8	275.4	250.1	208.4	159.9	146.2	133.9	124.4	117.5	115.5
77.5°	701.1	434.6	199.5	197.5	153.1	123.7	116.9	112.1	105.2	97.7	96.4
80°	295.2	221.4	135.3	133.3	101.8	86.1	84.1	83.4	80.6	74.5	72.4
82.5°	162.0	125.1	94.3	82.0	61.5	49.9	51.9	52.6	50.6	44.4	40.3
85°	79.3	68.3	45.8	36.9	28.0	17.8	17.1	20.5	19.1	13.7	15.0
87.5°	15.7	19.1	12.3	5.5	2.7	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)