

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: P452229

Luminaire Tested: **GALN-SA3A-830-U-SL3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452229
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-SA3A-830-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 615mA 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: 10752 lumens
Efficiency: N/A
Efficacy: 115.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G3

Input Watts (W): 93
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

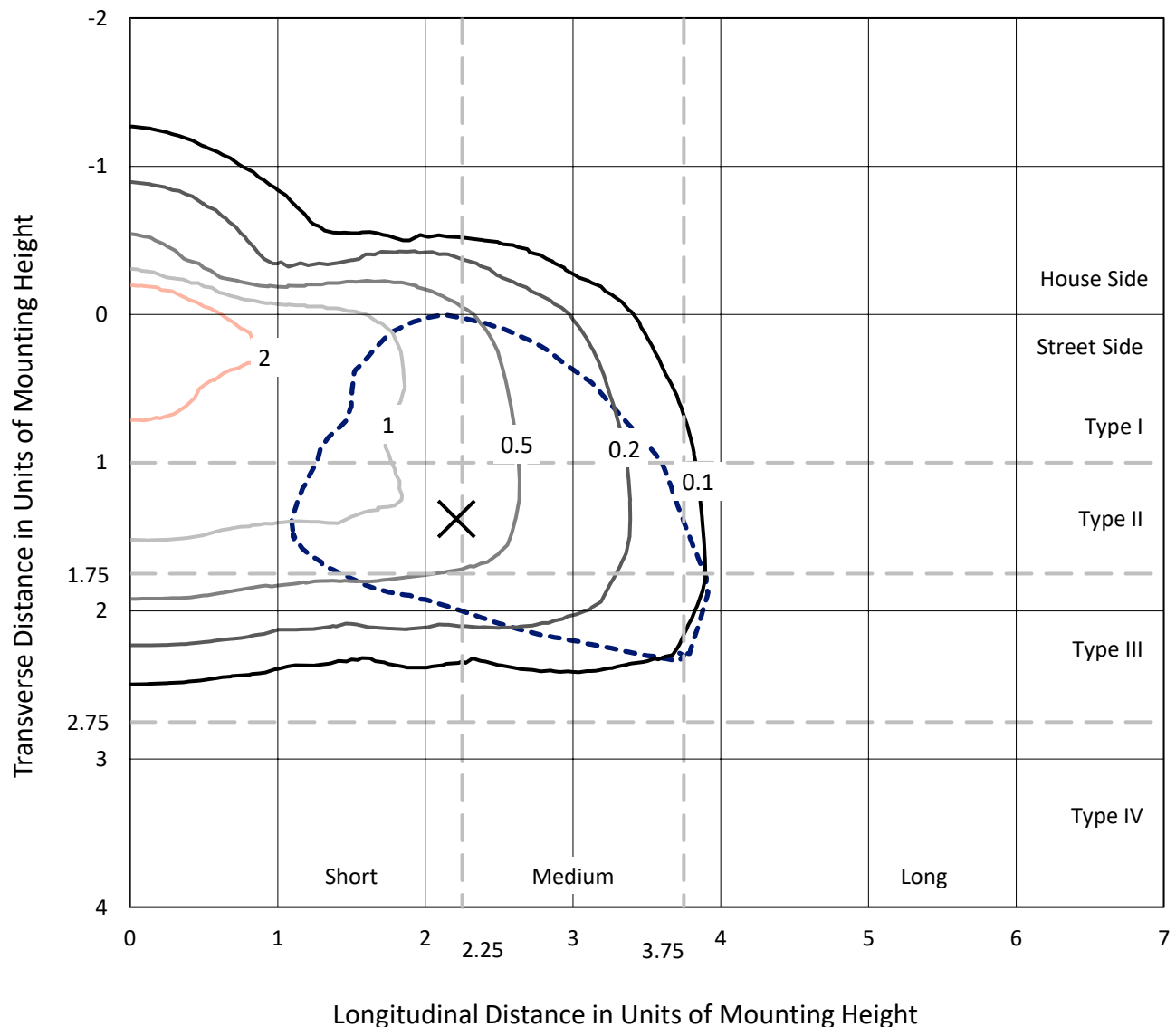


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

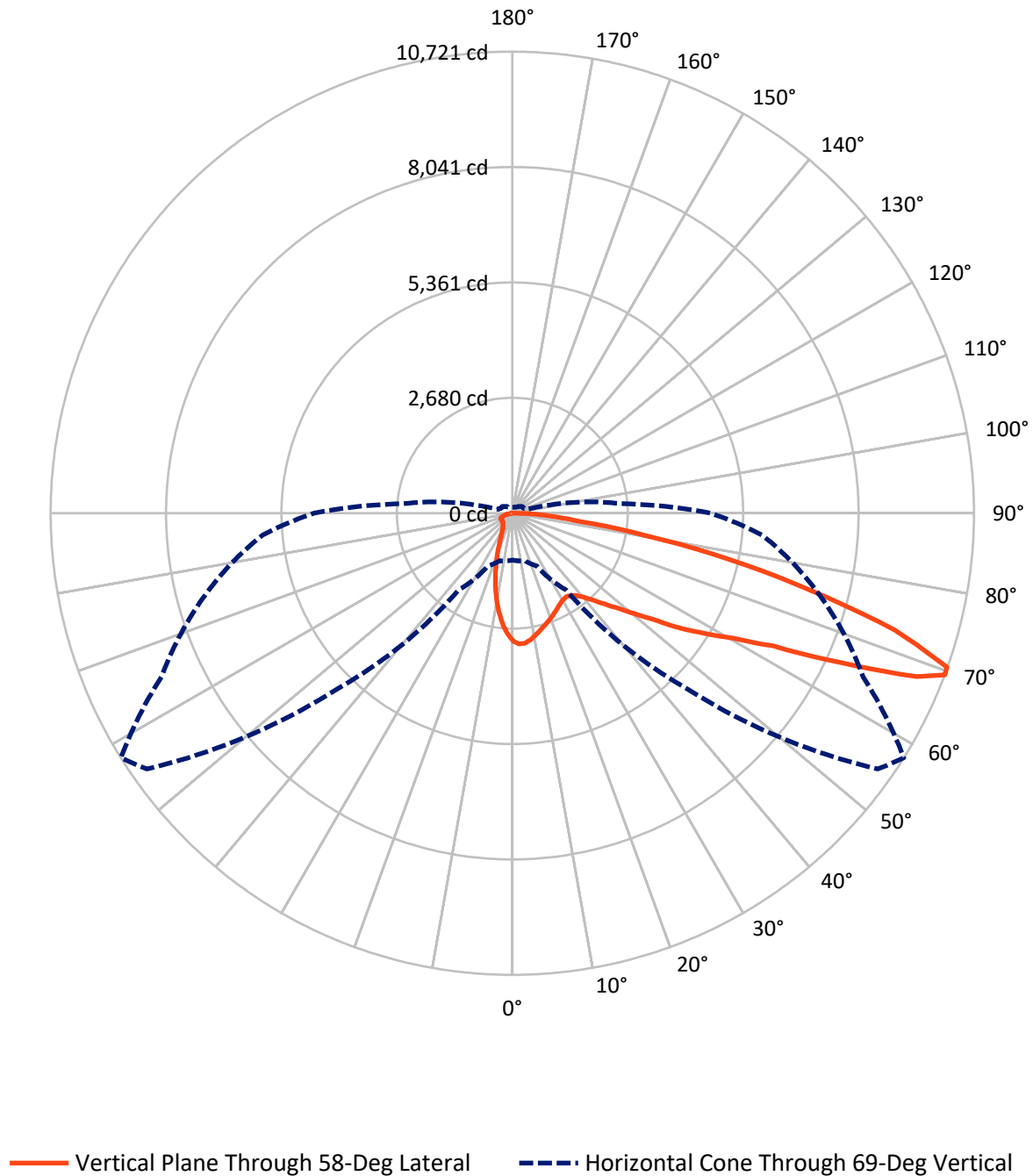


Based on 25 foot mounting height. Maximum calculated value = 4.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1575.7	0.0	1575.7
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	9176.3	0.0	9176.3
	% Fixture	85.3	0.0	85.3
Total	Lumens	10752.0	0.0	10752.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	252.3	2.3
10°-20°	554.1	5.2
20°-30°	715.9	6.7
30°-40°	929.8	8.6
40°-50°	1351.7	12.6
50°-60°	2157.0	20.1
60°-70°	2881.4	26.8
70°-80°	1661.0	15.4
80°-90°	248.8	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°	10752.0	100.0
0°-180°	10752.0	100.0

Coefficient of Utilization



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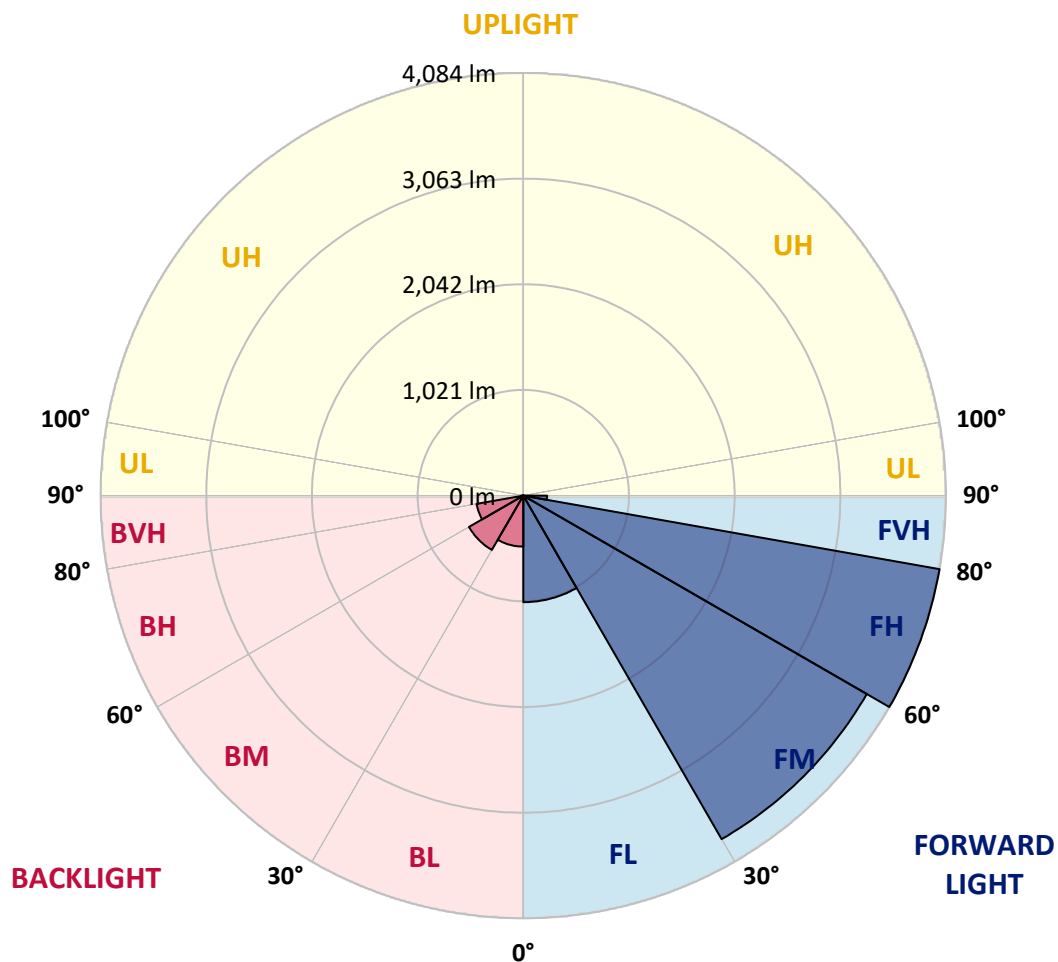
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1029.8	9.6			
FM	(30°-60°)	3832.5	35.6			
FH	(60°-80°)	4084.3	38.0			G2/5000
FVH	(80°-90°)	229.7	2.1			G3/500
BL	(0°-30°)	492.5	4.6	B1/500		
BM	(30°-60°)	606.0	5.6	B1/1000		
BH	(60°-80°)	458.2	4.3	B1/500		G1/500
BVH	(80°-90°)	19.1	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	2971.2	2971.2	2971.2	2971.2	2971.2	2971.2	2971.2	2971.2	2971.2	2971.2	2971.2
2.5°	3081.6	3090.0	3087.6	3084.6	3079.8	3066.6	3045.0	3041.4	3027.6	2998.2	2961.6
5°	3034.2	3041.4	3042.0	3046.2	3052.2	3049.8	3034.2	3032.4	3012.0	2972.4	2911.3
7.5°	2871.7	2881.3	2902.3	2925.7	2946.6	2966.4	2971.2	2974.2	2961.6	2916.1	2834.5
10°	2688.8	2698.4	2708.0	2742.8	2794.3	2843.5	2884.3	2889.7	2892.7	2850.7	2751.2
12.5°	2486.1	2505.9	2526.3	2577.9	2646.8	2724.2	2796.1	2807.5	2827.9	2796.1	2679.2
15°	2314.0	2334.4	2363.8	2410.0	2493.3	2604.8	2706.2	2724.8	2764.9	2748.8	2612.0
17.5°	2194.7	2201.9	2222.3	2275.0	2365.0	2482.5	2618.0	2655.2	2719.4	2715.2	2554.5
20°	2100.5	2109.5	2122.1	2154.5	2248.1	2372.2	2535.9	2583.9	2670.8	2685.2	2497.5
22.5°	2061.0	2067.6	2065.8	2083.2	2146.7	2271.4	2452.5	2509.5	2627.6	2664.8	2444.7
25°	2063.4	2069.4	2060.4	2056.2	2093.9	2182.7	2365.6	2438.1	2592.8	2651.0	2396.8
27.5°	2103.5	2107.7	2090.9	2074.2	2077.2	2127.5	2293.6	2374.0	2563.5	2657.0	2356.6
30°	2157.5	2165.3	2154.5	2134.1	2111.9	2114.3	2247.5	2326.6	2549.7	2678.0	2337.4
32.5°	2227.1	2234.3	2229.5	2213.3	2184.5	2152.7	2236.1	2309.2	2550.9	2720.6	2333.2
35°	2300.2	2314.6	2322.4	2321.2	2297.8	2242.7	2281.0	2341.6	2579.7	2791.9	2357.8
37.5°	2383.0	2395.0	2428.5	2450.1	2428.5	2364.4	2382.4	2424.4	2643.2	2895.1	2411.8
40°	2463.3	2481.3	2530.5	2597.6	2589.3	2532.9	2537.1	2564.7	2755.4	3048.6	2517.3
42.5°	2547.3	2568.9	2654.6	2754.2	2773.9	2730.2	2741.6	2766.1	2914.9	3261.4	2698.4
45°	2655.2	2681.0	2786.5	2910.7	2988.6	2961.6	2994.0	3006.0	3128.3	3538.5	2937.0
47.5°	2794.3	2824.3	2954.4	3109.1	3219.5	3244.1	3300.4	3293.2	3392.8	3866.5	3246.5
50°	3028.8	3045.6	3168.5	3326.2	3477.9	3588.9	3650.0	3661.4	3720.8	4185.5	3592.5
52.5°	3307.6	3322.6	3411.4	3549.3	3739.4	3974.4	4125.5	4088.4	4102.7	4574.1	3997.2
55°	3621.2	3646.4	3702.8	3794.5	4041.0	4387.0	4690.4	4699.4	4539.9	4945.8	4385.2
57.5°	3864.1	3906.7	4003.2	4133.9	4446.3	4845.7	5253.5	5259.5	5055.6	5342.8	4813.3
60°	3741.8	3792.1	4012.8	4331.2	4978.2	5646.2	5926.3	5892.1	5557.5	5794.9	5335.6
62.5°	3214.1	3223.1	3543.9	4041.6	5141.9	6717.2	6927.7	6783.1	6227.3	6368.2	5866.3
65°	2080.2	2138.9	2393.2	3090.6	4604.0	7311.4	8682.2	8348.2	7166.3	7018.8	6310.6
67.5°	1313.2	1298.2	1403.8	1764.7	3166.7	6787.9	10179.5	10126.7	8394.4	7429.6	6204.5
69°	1088.9	1105.7	1141.7	1352.8	2179.1	5795.5	10356.4	10721.0	8989.8	7397.2	5818.9
70°	987.6	995.4	1033.2	1199.3	1681.4	4854.1	10066.2	10704.8	9223.7	7261.7	5539.5
72.5°	783.7	783.1	847.9	997.8	1256.8	2770.9	8265.5	9293.8	8962.2	6630.8	4577.1
75°	595.4	605.0	676.4	844.3	1157.9	1514.1	5768.0	7157.3	7157.9	5237.3	2856.1
77.5°	429.3	435.3	518.7	708.8	1090.7	1227.5	3841.9	5133.5	4825.9	2399.8	897.7
80°	281.2	284.8	348.4	561.3	983.4	1157.9	2278.0	3142.1	2276.2	636.8	296.8
82.5°	154.1	172.1	212.9	363.4	789.1	1069.8	1384.6	1590.2	853.9	283.6	154.7
85°	77.4	82.2	119.9	212.3	515.7	885.1	964.2	912.1	440.7	140.9	80.4
87.5°	22.8	28.8	49.8	82.2	209.3	461.1	536.7	481.5	169.7	51.0	16.8
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°	2971.2	2971.2	2971.2	2971.2	2971.2	2971.2	2971.2	2971.2	2971.2	2971.2	2971.2
2.5°	2946.6	2935.8	2887.9	2844.7	2805.1	2763.1	2727.8	2696.6	2699.6	2700.2	2668.4
5°	2879.5	2854.9	2763.7	2678.6	2606.6	2515.5	2437.5	2387.2	2362.0	2328.4	2340.4
7.5°	2788.3	2741.0	2614.4	2472.9	2340.4	2222.3	2093.9	2005.8	1949.4	1894.9	1902.1
10°	2694.2	2618.0	2433.9	2246.9	2075.4	1886.5	1722.8	1582.5	1478.1	1439.1	1413.4
12.5°	2597.6	2497.5	2263.6	2014.8	1777.9	1551.9	1319.8	1169.3	1054.2	993.0	1000.8
15°	2509.5	2387.8	2086.2	1782.7	1475.1	1205.9	974.4	831.1	750.8	734.0	743.6
17.5°	2427.9	2268.4	1920.1	1557.3	1198.1	904.3	732.2	651.2	618.8	609.8	609.2
20°	2344.0	2167.1	1733.6	1316.2	933.6	701.0	600.8	563.1	557.1	560.7	561.3
22.5°	2258.8	2041.8	1541.7	1077.0	743.6	573.3	525.3	515.1	519.9	528.3	529.5
25°	2180.3	1931.4	1357.0	867.1	593.6	503.7	480.3	480.3	491.1	503.7	504.3
27.5°	2115.5	1824.7	1172.9	688.4	497.1	453.3	445.5	449.7	464.7	474.3	474.9
30°	2062.2	1725.2	999.0	551.7	437.1	413.2	411.4	418.5	429.3	438.3	438.9
32.5°	2022.0	1637.6	836.5	463.5	395.8	382.6	382.0	387.4	393.4	395.8	398.2
35°	2006.4	1565.1	687.8	407.8	368.2	359.8	359.8	359.2	361.6	362.8	364.0
37.5°	2019.0	1509.3	572.7	371.8	347.8	341.8	338.2	334.6	333.4	333.4	334.0
40°	2072.4	1479.9	486.9	348.4	333.4	324.4	317.8	313.6	309.4	310.6	311.8
42.5°	2185.7	1485.3	428.7	332.8	320.8	308.2	298.6	293.8	290.8	294.4	293.8
45°	2366.2	1539.3	391.6	322.0	308.2	292.0	283.0	278.2	278.2	283.6	285.4
47.5°	2618.6	1642.4	371.8	313.6	298.6	279.4	270.4	266.8	268.0	277.0	277.6
50°	2926.8	1821.7	368.2	309.4	293.8	270.4	260.2	256.6	259.6	269.2	270.4
52.5°	3266.8	2052.6	385.6	310.0	289.6	265.0	251.8	246.5	249.5	257.2	259.6
55°	3669.8	2341.6	430.5	312.4	283.6	262.0	245.9	233.9	237.5	242.9	243.5
57.5°	4081.2	2706.2	509.7	313.0	278.8	256.6	235.7	220.1	220.1	223.7	225.5
60°	4583.7	3103.1	614.0	313.6	279.4	248.9	221.9	204.5	202.1	203.9	204.5
62.5°	5082.6	3435.3	631.4	311.8	285.4	241.1	206.9	188.9	184.7	184.1	182.9
65°	5302.6	3373.6	517.5	303.4	292.0	236.3	194.9	173.9	166.7	164.3	164.3
67.5°	4944.0	2853.7	389.2	292.0	287.8	231.5	183.5	161.3	152.9	148.1	148.1
69°	4607.0	2538.3	349.6	284.2	277.0	223.7	176.3	154.7	144.5	139.1	137.3
70°	4346.8	2321.2	332.8	277.6	266.8	214.7	170.9	149.9	138.5	132.5	131.3
72.5°	3468.9	1821.1	291.4	252.4	227.3	180.5	151.7	134.9	124.1	117.5	115.7
75°	1999.2	987.0	241.7	219.5	182.9	140.3	128.3	117.5	109.1	103.1	101.3
77.5°	615.2	381.4	175.1	173.3	134.3	108.5	102.5	98.3	92.3	85.7	84.5
80°	259.0	194.3	118.7	116.9	89.3	75.6	73.8	73.2	70.8	65.4	63.6
82.5°	142.1	109.7	82.8	72.0	54.0	43.8	45.6	46.2	44.4	39.0	35.4
85°	69.6	60.0	40.2	32.4	24.6	15.6	15.0	18.0	16.8	12.0	13.2
87.5°	13.8	16.8	10.8	4.8	2.4	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)