

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: STREETWORKS

Report Number: P319846

Luminaire Tested: **GAN-SA2C-830-U-SL3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319846
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-22)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA2C-830-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 1050mA 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: 11502 lumens
Efficiency: N/A
Efficacy: 101.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

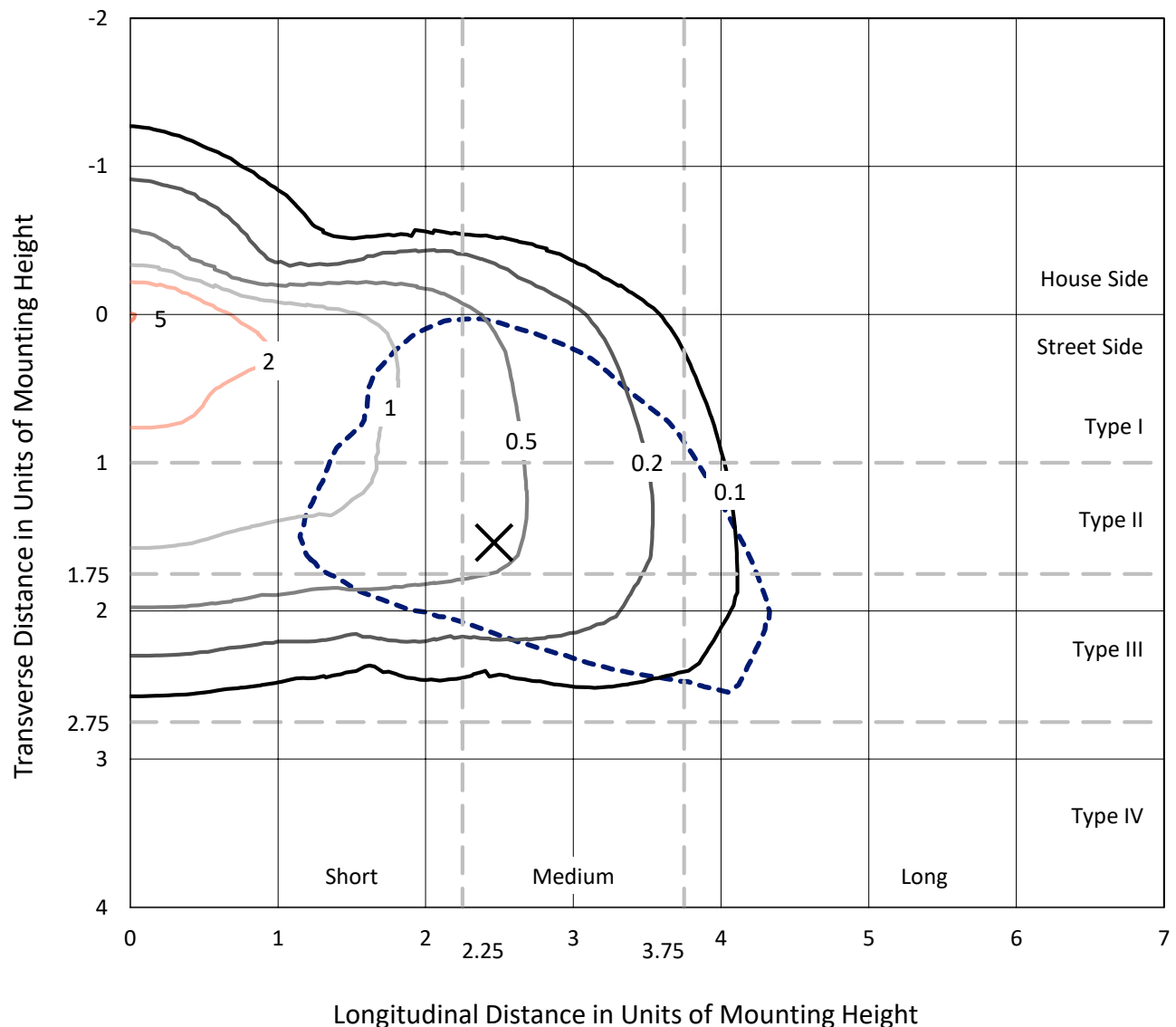
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

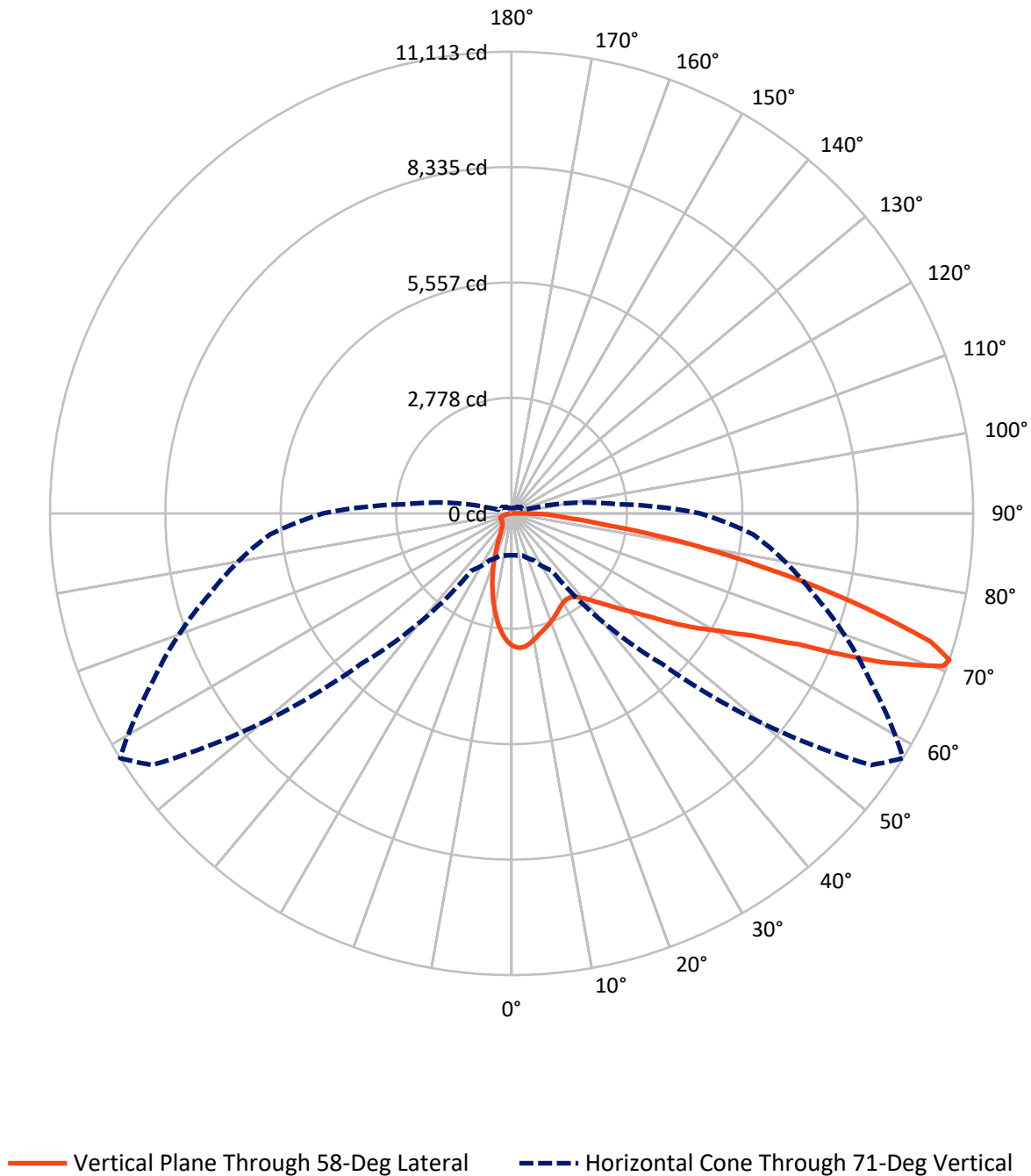
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1719.6	0.0	1719.6
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	9782.4	0.0	9782.4
	% Fixture	85.0	0.0	85.0
Total	Lumens	11502.0	0.0	11502.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	274.9	2.4
10°-20°	611.3	5.3
20°-30°	776.9	6.8
30°-40°	989.7	8.6
40°-50°	1403.4	12.2
50°-60°	2171.8	18.9
60°-70°	2956.6	25.7
70°-80°	1972.4	17.1
80°-90°	344.8	3.0
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°	11502.0	100.0
0°-180°	11502.0	100.0

Coefficient of Utilization



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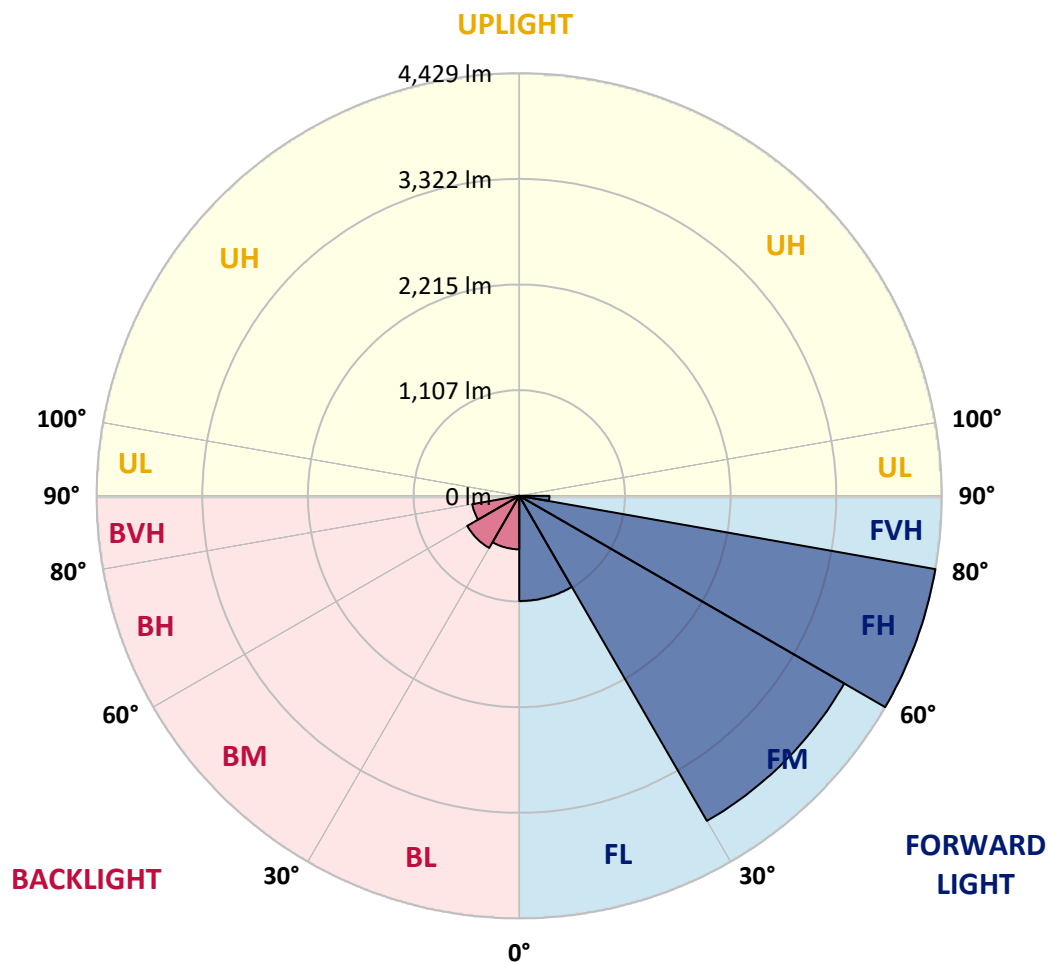
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1102.7	9.6			
FM	(30°-60°)	3934.2	34.2			
FH	(60°-80°)	4429.3	38.5			G2/5000
FVH	(80°-90°)	316.2	2.7			G3/500
BL	(0°-30°)	560.5	4.9	B2/1000		
BM	(30°-60°)	630.6	5.5	B1/1000		
BH	(60°-80°)	499.8	4.3	B1/500		G1/500
BVH	(80°-90°)	28.6	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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	3186.8	3186.8	3186.8	3186.8	3186.8	3186.8	3186.8	3186.8	3186.8	3186.8	3186.8
2.5°	3271.4	3267.0	3268.6	3265.4	3257.7	3250.1	3238.9	3240.9	3225.3	3202.0	3173.2
5°	3209.7	3208.1	3220.1	3226.9	3232.5	3228.1	3224.9	3228.9	3206.1	3174.0	3123.9
7.5°	3080.2	3062.6	3077.8	3100.7	3122.3	3138.7	3160.4	3163.2	3148.8	3115.1	3049.4
10°	2896.3	2879.5	2902.0	2937.6	2980.9	3020.1	3063.8	3071.8	3074.6	3044.2	2964.5
12.5°	2705.6	2692.8	2715.3	2765.3	2837.0	2897.5	2967.3	2979.3	3004.1	2983.7	2885.9
15°	2535.0	2530.1	2557.4	2606.7	2689.2	2781.8	2882.3	2904.4	2946.4	2939.6	2824.6
17.5°	2387.5	2386.3	2407.1	2458.8	2550.2	2667.2	2797.8	2835.0	2897.5	2905.6	2774.1
20°	2277.7	2275.3	2289.8	2327.8	2422.0	2554.6	2706.4	2757.7	2847.9	2875.9	2722.1
22.5°	2218.8	2218.4	2218.8	2236.9	2313.8	2437.2	2617.5	2680.0	2799.4	2852.3	2664.4
25°	2208.8	2207.6	2198.8	2196.8	2240.5	2339.0	2529.3	2598.3	2753.3	2835.8	2609.5
27.5°	2234.9	2236.5	2224.8	2206.0	2214.8	2274.5	2452.8	2526.5	2716.5	2832.6	2571.4
30°	2289.0	2288.2	2278.1	2258.5	2241.3	2250.5	2398.3	2472.1	2691.6	2846.7	2545.4
32.5°	2348.6	2353.1	2351.1	2340.2	2314.6	2277.7	2381.9	2454.0	2684.4	2880.3	2534.2
35°	2420.4	2425.2	2439.6	2448.0	2418.0	2358.7	2417.2	2479.7	2705.2	2943.6	2552.2
37.5°	2488.5	2500.9	2541.4	2577.0	2551.4	2485.3	2510.9	2555.4	2769.7	3043.4	2600.7
40°	2567.0	2577.8	2643.9	2719.7	2715.7	2647.1	2662.0	2691.6	2883.5	3186.4	2688.4
42.5°	2644.3	2666.0	2761.7	2869.1	2900.0	2839.5	2863.1	2878.7	3043.8	3375.9	2841.5
45°	2747.3	2770.5	2903.6	3033.0	3105.1	3071.0	3108.7	3114.7	3245.3	3634.0	3063.8
47.5°	2903.2	2929.6	3084.7	3220.5	3330.7	3334.3	3396.4	3394.0	3496.9	3929.2	3343.9
50°	3146.0	3184.0	3311.0	3438.0	3571.9	3646.4	3729.3	3717.7	3798.6	4243.8	3666.4
52.5°	3464.1	3481.7	3575.9	3669.6	3835.9	4003.0	4122.0	4111.5	4140.8	4567.1	4032.6
55°	3793.8	3807.0	3845.9	3897.2	4120.8	4393.2	4644.8	4628.4	4554.3	4902.8	4394.4
57.5°	4090.3	4117.1	4144.0	4165.2	4407.6	4801.1	5179.7	5180.9	5003.0	5265.0	4768.2
60°	4136.4	4160.0	4337.5	4505.0	4898.4	5345.2	5752.2	5740.2	5467.4	5658.1	5184.9
62.5°	3656.4	3709.7	4006.2	4451.7	5371.2	6340.4	6482.6	6467.8	6022.7	6142.5	5670.1
65°	2620.3	2680.8	3038.6	3708.1	5142.0	7437.0	7800.8	7601.3	6779.9	6738.2	6238.2
67.5°	1511.7	1526.1	1681.2	2218.8	3915.2	7494.3	9811.7	9532.4	7955.8	7414.2	6516.3
70°	1117.8	1117.4	1154.3	1365.4	2118.7	6116.4	10768.0	11018.5	9193.9	7636.5	6123.2
71°	1010.9	1012.1	1053.3	1242.8	1678.0	5119.6	10564.9	11113.0	9520.0	7526.7	5838.8
72.5°	864.6	868.6	925.9	1114.6	1411.5	3530.6	9689.9	10545.7	9674.7	7255.9	5393.6
75°	655.9	665.1	744.4	939.5	1290.1	1790.5	7111.7	8421.0	8594.5	6402.5	4007.8
77.5°	468.0	478.4	568.1	790.1	1226.4	1349.4	4762.6	6142.5	6324.8	4103.1	1807.8
80°	295.7	308.1	375.8	628.6	1152.3	1281.3	2992.9	4128.8	3448.9	1313.0	460.0
82.5°	173.5	183.1	233.2	410.7	941.1	1234.0	1760.9	2288.6	1342.2	396.7	209.1
85°	100.6	105.0	145.4	261.6	683.5	1164.7	1293.7	1279.3	582.6	193.9	99.0
87.5°	46.9	52.1	86.1	136.6	379.4	844.2	1022.5	883.4	362.2	90.9	46.5
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°	3186.8	3186.8	3186.8	3186.8	3186.8	3186.8	3186.8	3186.8	3186.8	3186.8	3186.8
2.5°	3159.2	3152.4	3123.9	3098.7	3072.2	3037.8	2999.7	2994.9	2971.7	2976.1	2968.1
5°	3096.7	3079.4	3010.9	2948.8	2875.5	2809.8	2738.5	2705.6	2658.4	2655.2	2643.1
7.5°	3007.3	2975.3	2869.1	2751.3	2633.5	2521.3	2410.4	2337.4	2262.9	2231.3	2228.5
10°	2906.8	2852.3	2696.0	2521.7	2351.9	2188.0	2029.3	1911.9	1806.2	1756.1	1754.1
12.5°	2811.4	2730.9	2516.5	2279.3	2047.0	1834.6	1617.1	1462.8	1330.2	1285.7	1266.9
15°	2730.5	2617.1	2341.8	2038.5	1756.5	1461.6	1214.0	1051.7	929.1	886.7	878.6
17.5°	2651.9	2506.1	2162.7	1795.3	1454.4	1130.3	882.2	761.6	696.3	679.1	678.7
20°	2573.8	2391.9	1975.6	1546.5	1162.3	845.4	678.3	624.2	602.2	600.2	597.0
22.5°	2485.3	2270.9	1778.9	1296.9	907.1	664.7	576.5	554.9	552.1	559.3	559.3
25°	2402.3	2150.7	1579.4	1052.5	705.6	554.5	514.8	510.4	518.0	530.9	532.1
27.5°	2325.0	2034.9	1384.7	835.4	565.3	488.4	472.0	477.2	490.8	505.6	506.0
30°	2261.3	1925.6	1195.6	658.3	477.6	439.1	436.3	446.7	461.6	473.2	476.0
32.5°	2212.0	1832.2	1012.9	529.3	420.3	402.3	404.7	413.5	422.7	429.1	433.5
35°	2189.2	1752.1	844.2	446.3	383.8	373.8	377.0	381.8	385.8	390.6	394.2
37.5°	2193.2	1690.0	693.5	394.6	359.4	354.2	354.2	354.2	354.2	356.6	357.0
40°	2230.5	1654.3	570.9	361.8	343.0	337.4	332.9	328.9	325.7	327.3	326.5
42.5°	2325.8	1651.1	481.2	341.0	329.7	320.5	311.7	306.1	302.1	303.7	304.5
45°	2487.7	1691.2	420.7	326.1	317.3	303.3	292.1	286.1	283.3	288.5	289.3
47.5°	2697.2	1778.5	383.8	315.3	305.7	287.3	275.3	269.6	270.4	278.1	280.1
50°	2967.3	1920.3	366.2	308.5	297.7	273.6	261.2	256.4	258.8	269.6	272.0
52.5°	3263.7	2124.7	368.2	306.5	292.5	263.6	250.4	244.8	248.8	258.8	260.8
55°	3605.9	2370.3	401.5	309.3	284.9	257.2	241.6	232.0	235.2	244.4	246.0
57.5°	3986.1	2651.5	468.4	308.5	275.3	251.2	232.4	218.0	220.4	226.0	227.6
60°	4382.0	2991.3	572.1	310.9	270.8	244.0	220.0	201.9	201.1	205.9	206.7
62.5°	4857.2	3384.3	690.7	312.5	273.6	234.8	203.5	185.9	183.5	184.7	185.5
65°	5346.8	3668.8	646.3	306.1	282.5	227.2	189.1	170.3	165.9	165.1	165.5
67.5°	5362.0	3363.9	453.1	293.3	286.1	223.2	178.3	157.1	149.8	147.0	146.6
70°	4808.7	2732.9	353.0	279.7	271.6	216.8	168.3	146.2	135.4	131.0	130.6
71°	4538.6	2515.7	334.5	272.8	260.8	210.3	163.9	141.4	130.2	125.4	124.6
72.5°	4115.1	2255.3	312.1	262.0	240.0	193.9	155.5	134.6	123.0	117.4	116.2
75°	2953.2	1474.8	268.0	233.6	198.7	154.7	136.2	121.0	111.0	104.2	103.4
77.5°	1137.9	587.0	202.7	194.3	152.2	121.0	112.2	104.6	97.4	90.5	90.1
80°	351.8	262.4	147.8	146.2	110.2	90.1	87.3	85.3	82.5	75.3	73.7
82.5°	187.9	150.6	101.8	94.6	72.1	60.1	63.3	64.1	64.5	56.9	56.1
85°	89.7	79.7	57.3	53.7	42.1	33.7	38.9	42.1	42.5	34.9	32.5
87.5°	42.9	41.7	26.8	20.4	15.6	11.2	13.6	16.8	18.4	13.2	11.6
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)