

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: P320096

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P320096
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-24)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-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: 15085 lumens
Efficiency: N/A
Efficacy: 116.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 129
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

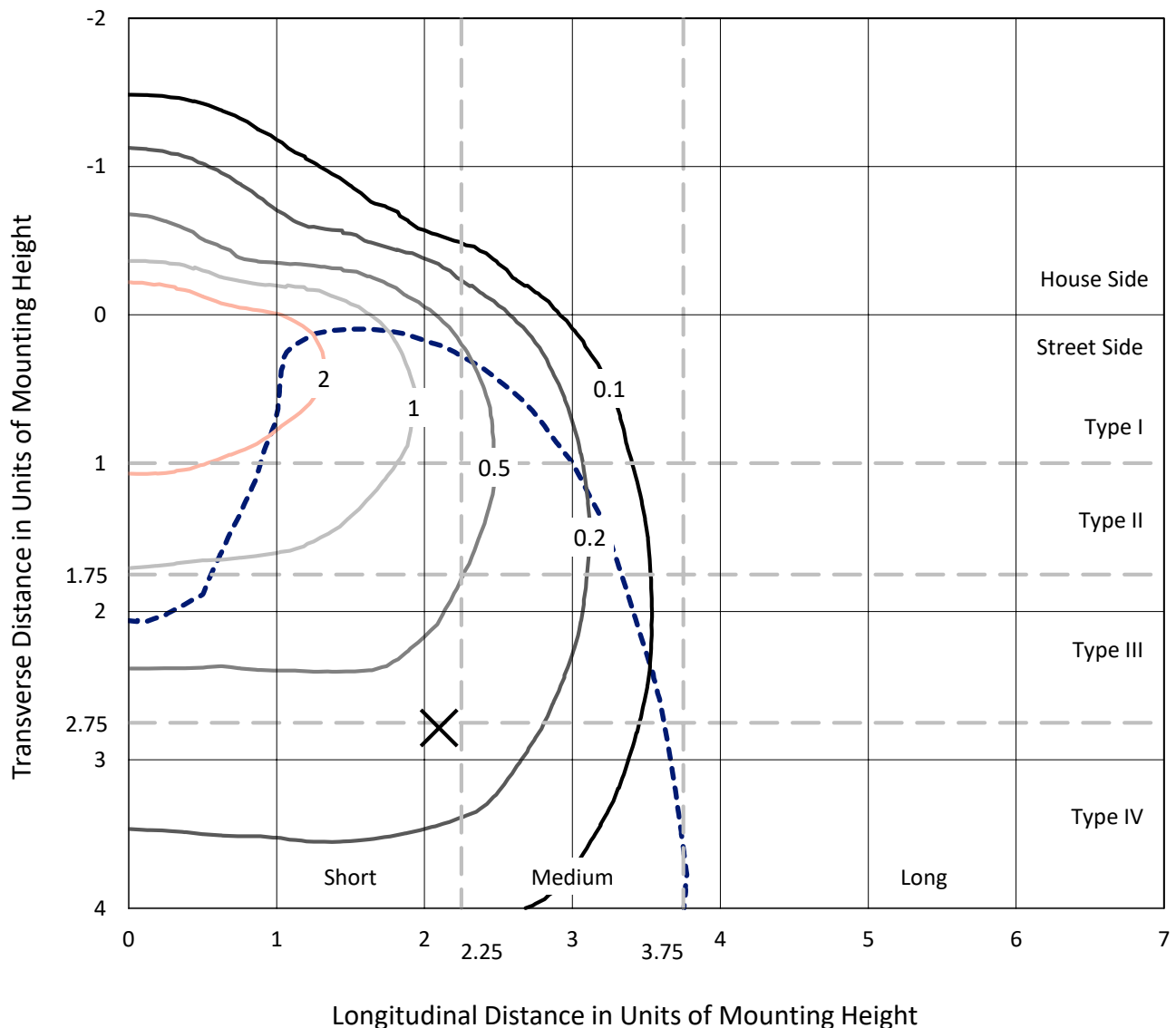


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Iso-Footcandle Lines of Horizontal Illumination

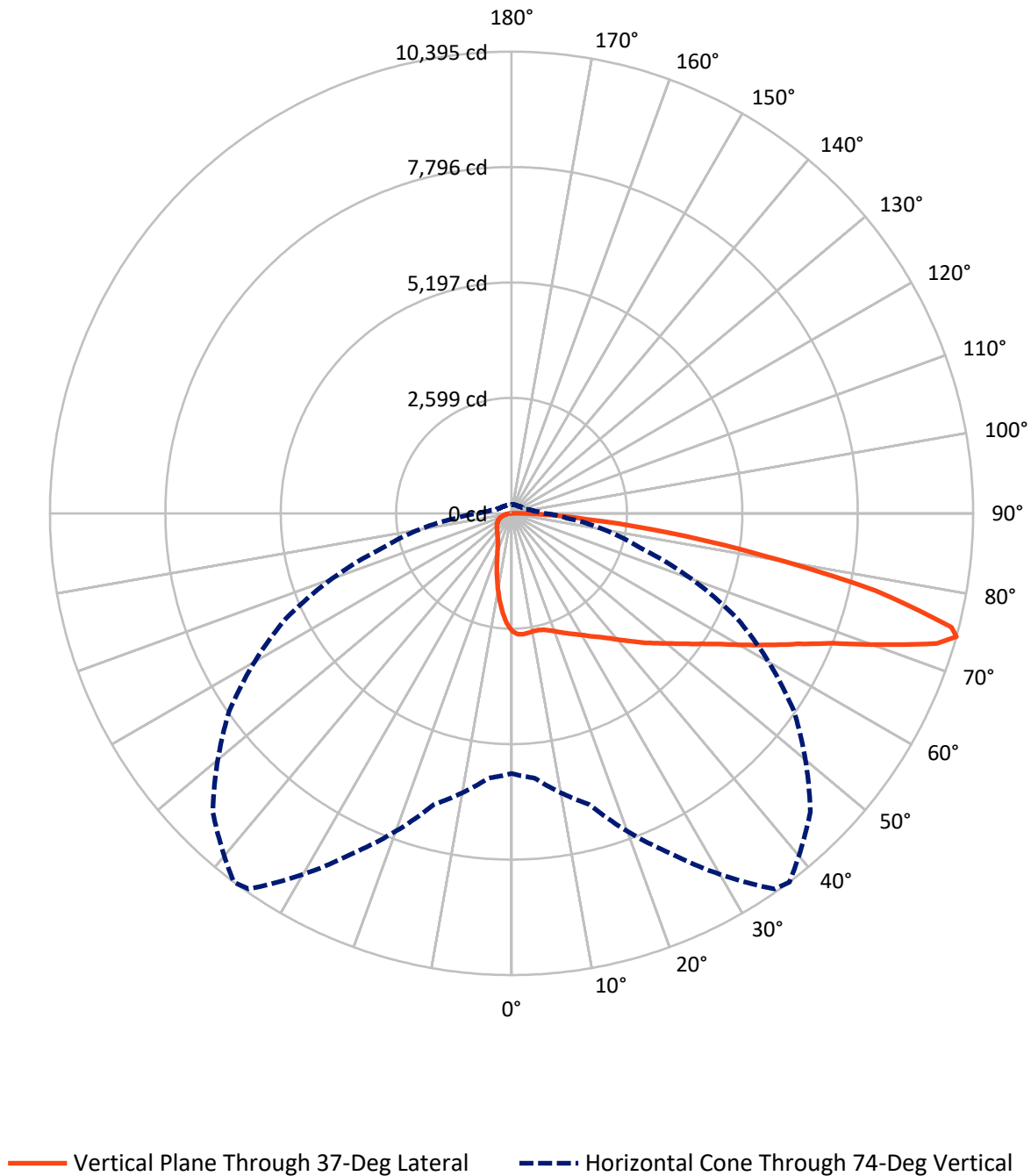
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2075.6	0.0	2075.6
	% Fixture	13.8	0.0	13.8
Street Side	Lumens	13009.4	0.0	13009.4
	% Fixture	86.2	0.0	86.2
Total	Lumens	15085.0	0.0	15085.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	234.1	1.6
10°-20°	600.0	4.0
20°-30°	924.4	6.1
30°-40°	1344.2	8.9
40°-50°	1978.5	13.1
50°-60°	2778.4	18.4
60°-70°	3516.6	23.3
70°-80°	3096.5	20.5
80°-90°	612.2	4.1
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°	15085.0	100.0
0°-180°	15085.0	100.0

Coefficient of Utilization



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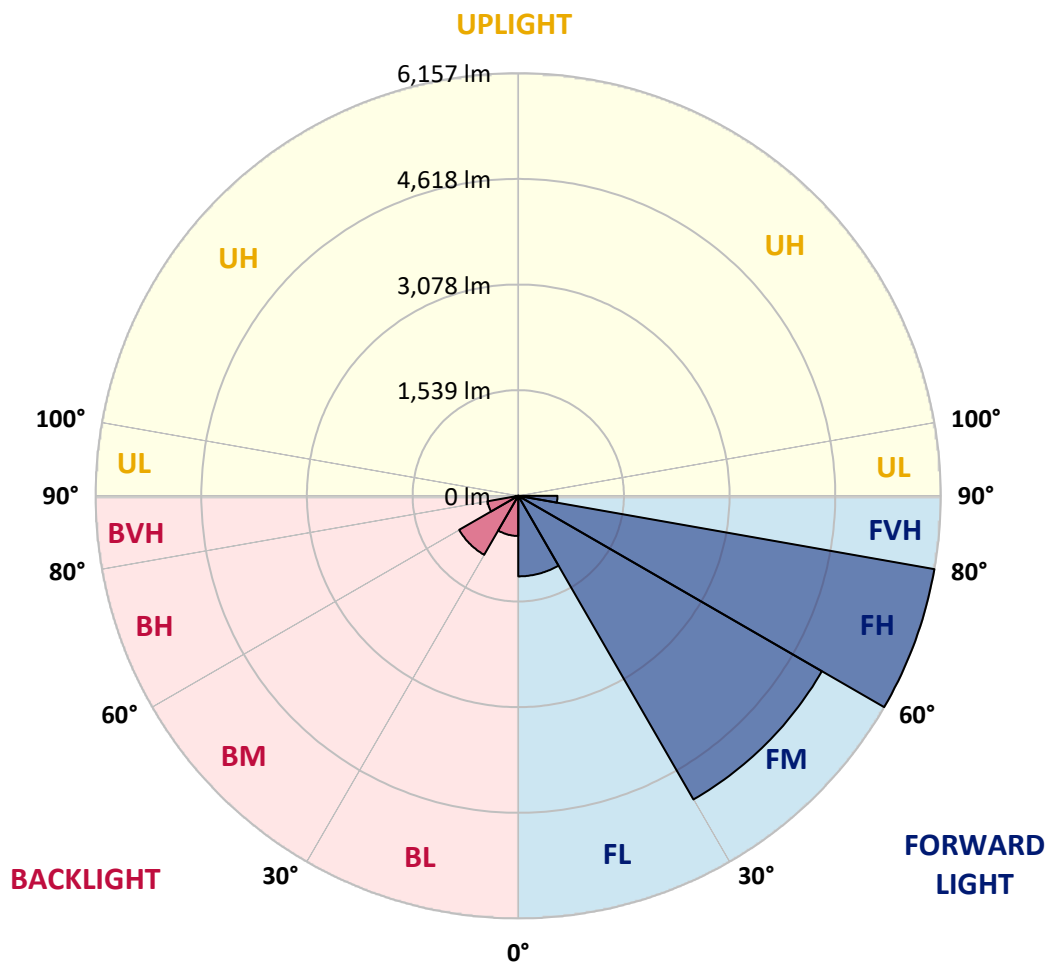
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1173.8	7.8			
FM	(30°-60°)	5107.9	33.9			
FH	(60°-80°)	6156.9	40.8			G3/7500
FVH	(80°-90°)	570.8	3.8			G4/750
BL	(0°-30°)	584.6	3.9	B2/1000		
BM	(30°-60°)	993.2	6.6	B1/1000		
BH	(60°-80°)	456.2	3.0	B1/500		G1/500
BVH	(80°-90°)	41.5	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	37°	45°	55°	65°	75°	85°
0°	2657.9	2657.9	2657.9	2657.9	2657.9	2657.9	2657.9	2657.9	2657.9	2657.9	2657.9
2.5°	2748.8	2749.3	2748.8	2744.5	2734.4	2725.9	2719.0	2708.9	2686.6	2669.6	2644.1
5°	2774.8	2771.6	2769.5	2761.5	2745.6	2736.0	2722.7	2703.6	2667.0	2632.9	2591.5
7.5°	2762.6	2758.9	2754.1	2744.5	2726.5	2718.5	2699.9	2674.9	2630.8	2586.2	2526.7
10°	2724.9	2723.8	2721.7	2719.6	2704.1	2697.8	2680.8	2654.2	2610.6	2556.4	2486.8
12.5°	2682.9	2685.5	2694.1	2705.2	2698.3	2695.1	2684.5	2666.4	2621.8	2563.3	2479.4
15°	2656.3	2663.8	2686.6	2715.8	2721.7	2720.6	2718.0	2706.3	2659.0	2594.2	2496.4
17.5°	2647.3	2659.5	2703.1	2751.4	2768.4	2772.2	2773.2	2753.0	2700.4	2631.9	2513.9
20°	2663.8	2679.2	2742.9	2809.4	2836.5	2838.6	2833.8	2798.7	2739.7	2664.3	2523.5
22.5°	2713.7	2727.5	2807.2	2882.2	2913.0	2916.2	2901.8	2848.7	2781.2	2702.6	2536.8
25°	2809.9	2826.9	2906.6	2981.5	2997.5	2998.0	2977.3	2911.4	2835.4	2756.2	2565.5
27.5°	2935.3	2952.3	3024.0	3097.4	3088.9	3084.1	3055.9	2990.0	2906.1	2830.1	2616.5
30°	3075.0	3093.6	3161.7	3213.7	3193.5	3184.0	3161.1	3076.1	3004.4	2931.0	2694.6
32.5°	3219.6	3236.6	3296.1	3331.7	3306.2	3301.9	3267.4	3189.8	3132.4	3085.1	2821.0
35°	3367.8	3380.1	3438.5	3458.7	3424.7	3423.6	3414.1	3342.9	3306.7	3329.0	3004.9
37.5°	3519.3	3522.5	3572.4	3573.5	3563.4	3567.6	3577.7	3533.1	3543.2	3612.8	3244.0
40°	3654.2	3662.7	3698.9	3710.0	3727.6	3742.4	3792.9	3763.7	3841.8	3965.1	3541.6
42.5°	3754.1	3770.6	3828.5	3857.2	3914.1	3937.5	4008.7	4035.8	4193.0	4378.0	3895.5
45°	3838.6	3864.1	3957.1	4016.1	4112.3	4153.2	4255.2	4346.1	4590.0	4825.9	4268.0
47.5°	3930.0	3962.4	4078.8	4191.5	4322.2	4368.4	4553.9	4689.9	5013.5	5276.5	4619.2
50°	4064.5	4089.4	4203.1	4380.1	4543.2	4602.7	4859.4	5054.4	5443.9	5705.9	4923.7
52.5°	4252.0	4242.5	4338.6	4586.8	4805.7	4879.0	5185.7	5442.3	5880.2	6094.3	5180.9
55°	4440.7	4424.7	4492.2	4803.1	5111.8	5188.8	5544.9	5831.8	6295.2	6443.9	5378.0
57.5°	4650.6	4620.3	4677.1	5047.0	5460.4	5552.3	5947.1	6245.7	6703.2	6726.6	5503.4
60°	4866.8	4825.9	4889.7	5349.3	5903.0	6011.4	6417.9	6649.6	7088.0	6953.0	5543.8
62.5°	5056.0	5027.3	5125.6	5686.7	6402.0	6521.0	6880.2	7078.9	7467.4	7047.0	5398.2
65°	5221.3	5226.0	5396.1	6066.1	6958.3	7085.3	7410.5	7608.2	7766.0	6991.3	5057.6
67.5°	5418.4	5445.5	5735.6	6565.6	7658.7	7797.9	8182.1	8185.2	7932.8	6663.9	4387.0
70°	5705.9	5761.7	6202.7	7258.5	8654.4	8845.7	9142.2	8524.3	7698.5	5776.5	3451.8
72.5°	5960.9	6065.1	6699.5	8051.3	9868.1	10013.2	9703.9	8328.7	6719.2	4329.1	2150.5
74°	5857.3	5986.4	6789.9	8441.9	10325.1	10394.7	9514.2	7758.0	5602.2	2998.0	1249.8
75°	5634.1	5774.4	6658.1	8438.2	10267.2	10228.4	9056.2	7106.0	4613.9	2044.7	831.6
77.5°	4546.9	4695.2	5610.2	7232.0	8418.5	8381.8	6956.7	4766.9	2020.8	670.6	422.4
80°	2643.6	2756.8	3482.6	4592.6	5676.6	5743.1	4575.1	2358.8	794.9	376.7	286.4
82.5°	1174.3	1252.4	1682.3	2344.4	3425.7	3511.3	2396.0	1236.0	491.0	229.0	172.2
85°	770.5	828.4	1021.3	1116.4	1631.3	1689.8	1172.7	962.3	324.1	125.9	126.5
87.5°	554.2	610.0	758.8	662.6	748.7	708.8	638.2	890.6	130.2	71.7	42.5
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°	2657.9	2657.9	2657.9	2657.9	2657.9	2657.9	2657.9	2657.9	2657.9	2657.9	2657.9
2.5°	2632.9	2624.4	2605.3	2569.2	2549.0	2532.0	2503.8	2487.3	2479.9	2479.4	2482.6
5°	2567.6	2547.9	2498.5	2437.9	2389.6	2345.5	2290.7	2257.8	2234.4	2220.6	2224.3
7.5°	2491.6	2460.8	2383.2	2286.5	2208.9	2123.4	2038.9	1988.4	1949.1	1919.8	1925.2
10°	2439.5	2397.0	2283.8	2144.6	2015.5	1891.1	1774.8	1705.2	1649.9	1607.4	1610.6
12.5°	2422.0	2364.6	2207.8	2021.9	1840.7	1670.6	1518.7	1411.9	1355.0	1306.6	1310.4
15°	2424.6	2347.6	2144.1	1911.3	1683.4	1469.2	1284.9	1160.0	1082.9	1049.5	1050.0
17.5°	2426.8	2327.9	2077.1	1792.8	1527.7	1281.1	1080.8	954.3	881.5	850.7	851.3
20°	2419.9	2296.1	1994.2	1656.8	1365.1	1108.4	914.5	807.2	751.9	728.0	728.0
22.5°	2410.8	2258.3	1900.7	1520.3	1204.6	958.6	795.5	713.6	681.7	665.8	665.3
25°	2415.1	2230.2	1805.1	1380.0	1056.9	839.0	716.3	662.1	640.8	630.7	630.2
27.5°	2437.9	2216.9	1716.9	1240.2	927.8	749.2	663.2	624.9	611.1	604.7	604.7
30°	2479.4	2216.9	1624.9	1121.2	820.4	682.8	622.2	596.2	586.6	582.4	582.4
32.5°	2551.6	2229.1	1536.2	1003.2	734.9	630.7	588.2	570.7	563.3	561.1	561.1
35°	2676.0	2270.5	1449.6	891.6	665.8	588.2	555.8	545.7	540.4	539.9	541.5
37.5°	2850.8	2355.0	1368.3	809.3	616.9	553.7	528.7	520.7	517.6	520.2	522.3
40°	3070.8	2469.8	1294.4	734.9	579.7	526.1	503.7	498.4	496.8	500.6	503.7
42.5°	3336.5	2625.0	1233.8	681.2	551.0	502.7	482.5	476.1	474.5	478.8	483.0
45°	3624.0	2791.8	1191.3	641.4	528.7	485.1	463.9	457.0	453.8	455.9	460.7
47.5°	3885.4	2949.6	1174.3	613.2	507.5	470.3	447.4	438.9	433.6	432.5	436.3
50°	4105.9	3067.1	1182.3	596.2	490.5	453.8	431.5	421.9	413.9	409.2	411.8
52.5°	4266.4	3140.9	1189.7	588.8	477.2	435.7	413.9	404.9	394.3	386.3	386.3
55°	4382.7	3157.9	1173.3	582.9	467.1	416.1	394.3	385.8	375.1	366.1	365.1
57.5°	4428.4	3110.1	1112.2	574.4	460.2	397.5	373.6	367.2	358.1	347.5	347.0
60°	4366.8	2962.4	994.2	556.3	451.1	382.1	352.8	348.6	344.3	334.2	333.7
62.5°	4119.2	2638.3	841.7	519.7	433.1	365.6	333.7	335.8	336.4	329.5	328.4
65°	3670.2	2193.0	692.9	471.9	406.0	345.9	314.0	324.1	330.0	328.9	327.3
67.5°	3017.7	1706.8	587.2	421.4	370.4	318.8	292.8	304.5	309.3	313.0	311.9
70°	2239.7	1203.6	485.7	368.2	327.3	286.9	265.2	271.0	267.8	272.1	273.7
72.5°	1248.7	722.1	395.9	315.1	282.7	249.7	234.3	233.3	226.4	226.4	226.4
74°	749.2	529.8	348.0	282.2	255.6	225.3	212.0	207.2	200.9	201.4	200.9
75°	602.6	455.4	319.4	260.4	236.5	211.0	197.7	191.3	186.5	186.5	186.0
77.5°	380.5	345.9	257.2	207.2	189.2	173.8	164.7	156.2	156.2	155.7	155.2
80°	287.5	275.3	200.3	156.8	145.1	133.4	127.5	123.8	123.8	125.4	124.9
82.5°	197.1	207.2	140.8	109.5	103.6	95.1	94.1	94.6	93.0	90.9	90.3
85°	144.0	155.7	95.1	69.1	63.2	57.9	62.2	64.3	61.6	56.9	54.7
87.5°	55.3	102.0	51.0	28.7	26.6	22.8	26.6	27.6	29.8	23.4	23.9
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)