

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: P320127

Luminaire Tested: **GAN-SA3C-827-U-SL4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P320127
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-SA3C-827-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 2700K, 1050mA 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: 15084 lumens
Efficiency: N/A
Efficacy: 90.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

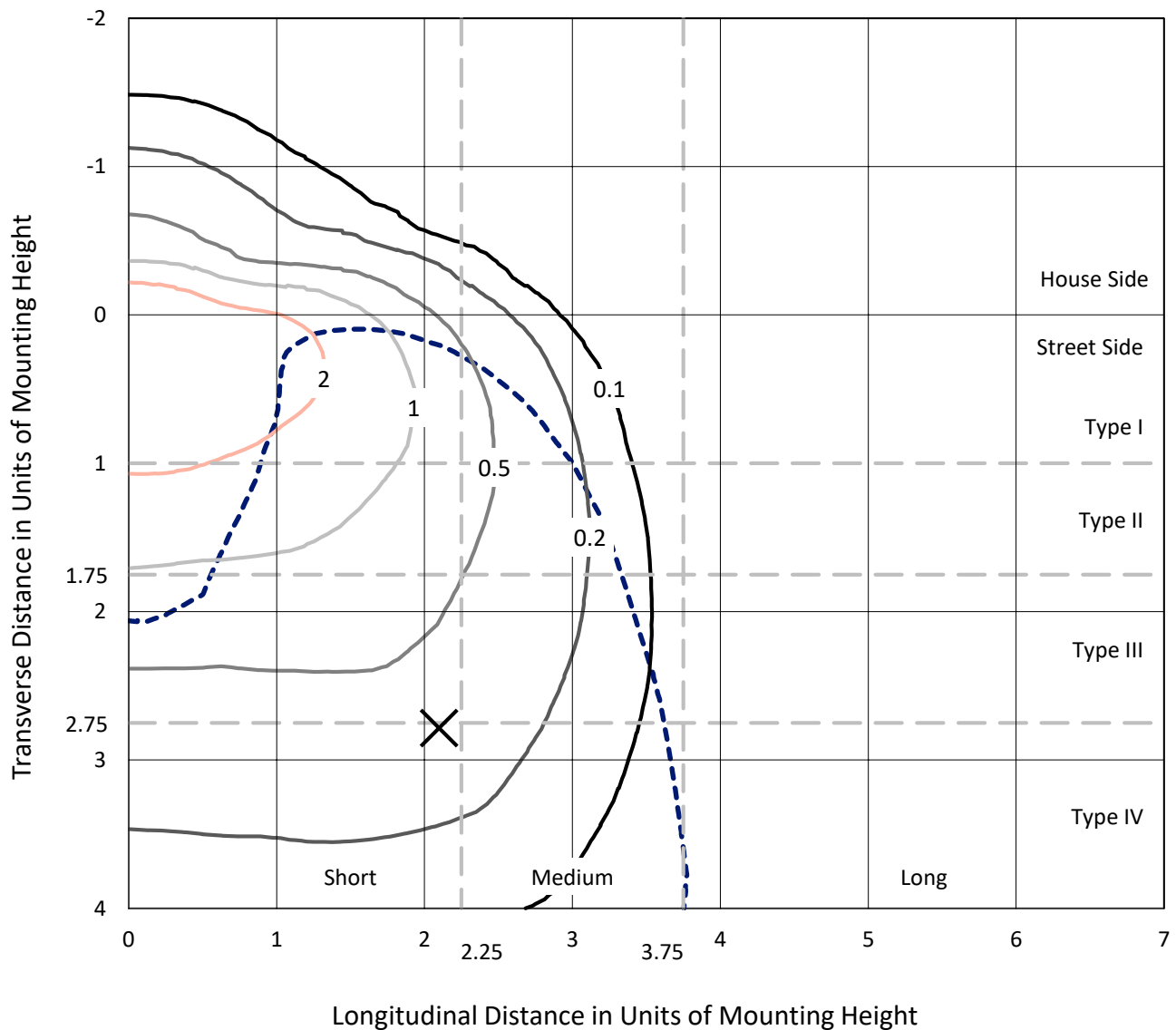
Input Watts (W): 166
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

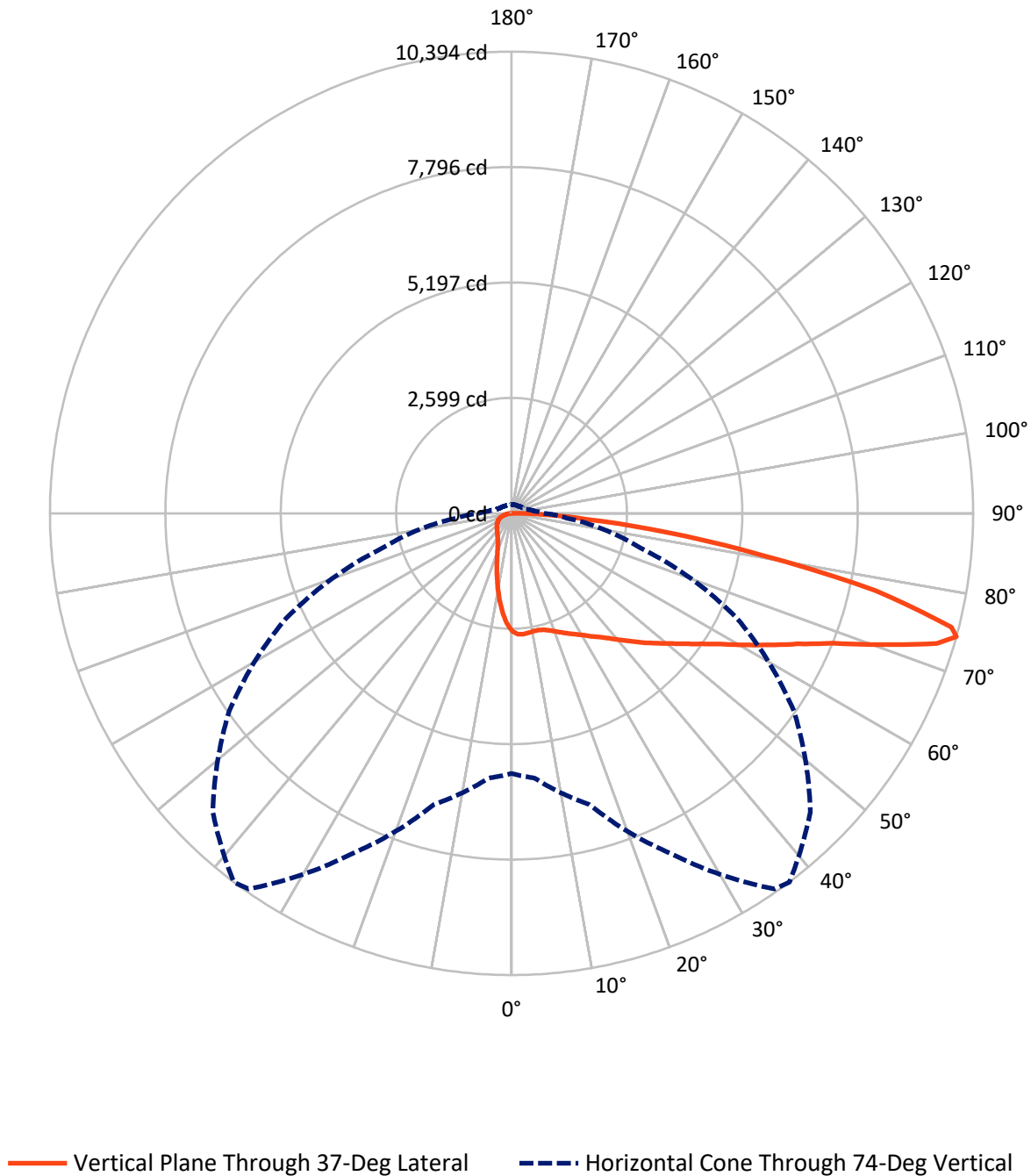
✕ Max cd
 - - - 1/2 Max cd



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	2075.4	0.0	2075.4
	% Fixture	13.8	0.0	13.8
Street Side	Lumens	13008.6	0.0	13008.6
	% Fixture	86.2	0.0	86.2
Total	Lumens	15084.0	0.0	15084.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	234.0	1.6
10°-20°	599.9	4.0
20°-30°	924.4	6.1
30°-40°	1344.1	8.9
40°-50°	1978.4	13.1
50°-60°	2778.2	18.4
60°-70°	3516.4	23.3
70°-80°	3096.3	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°	15084.0	100.0
0°-180°	15084.0	100.0

Coefficient of Utilization



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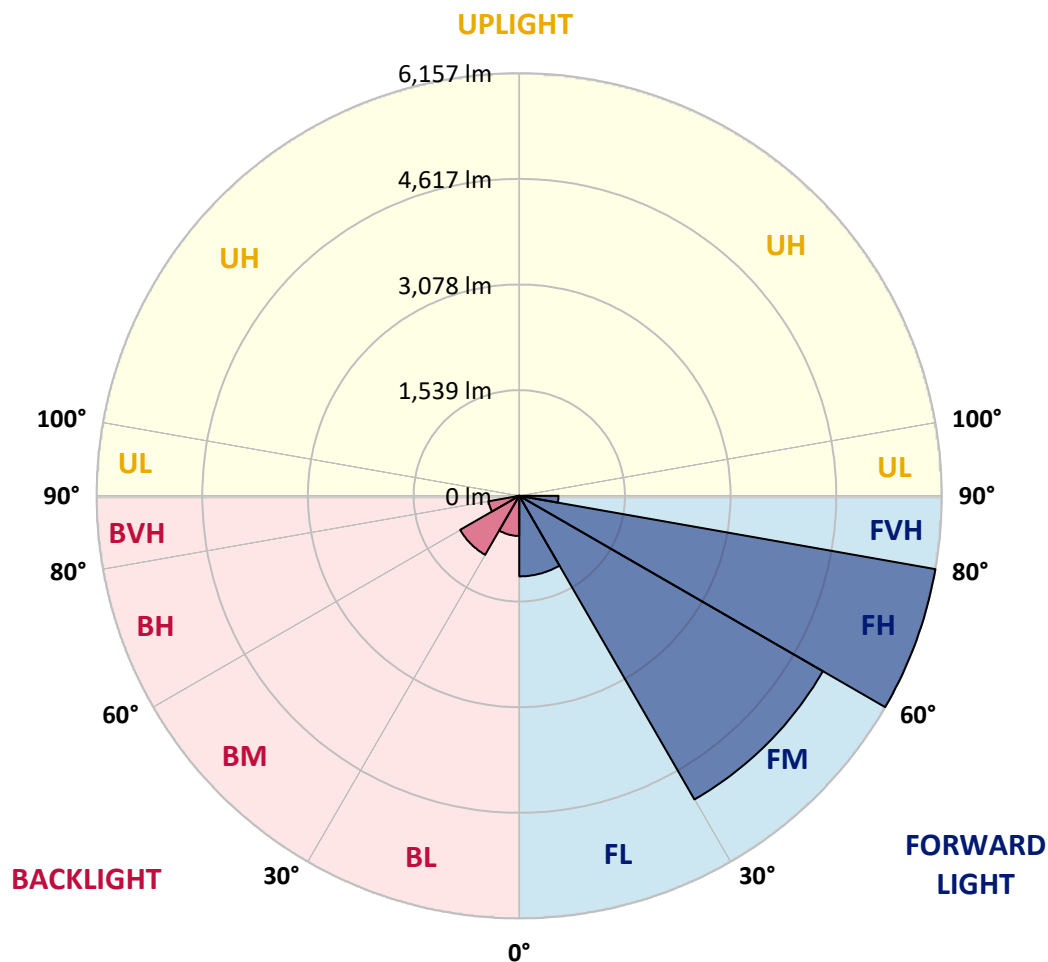
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1173.7	7.8			
FM	(30°-60°)	5107.6	33.9			
FH	(60°-80°)	6156.5	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°	2657.7	2657.7	2657.7	2657.7	2657.7	2657.7	2657.7	2657.7	2657.7	2657.7	2657.7
2.5°	2748.6	2749.1	2748.6	2744.4	2734.3	2725.8	2718.8	2708.8	2686.4	2669.4	2643.9
5°	2774.6	2771.4	2769.3	2761.4	2745.4	2735.8	2722.6	2703.4	2666.8	2632.8	2591.3
7.5°	2762.4	2758.7	2753.9	2744.4	2726.3	2718.3	2699.7	2674.7	2630.6	2586.0	2526.5
10°	2724.7	2723.6	2721.5	2719.4	2704.0	2697.6	2680.6	2654.0	2610.5	2556.3	2486.7
12.5°	2682.7	2685.4	2693.9	2705.0	2698.1	2694.9	2684.3	2666.2	2621.6	2563.2	2479.2
15°	2656.1	2663.6	2686.4	2715.7	2721.5	2720.4	2717.8	2706.1	2658.8	2594.0	2496.2
17.5°	2647.1	2659.3	2702.9	2751.3	2768.3	2772.0	2773.0	2752.9	2700.2	2631.7	2513.8
20°	2663.6	2679.0	2742.8	2809.2	2836.3	2838.4	2833.6	2798.5	2739.6	2664.1	2523.3
22.5°	2713.5	2727.3	2807.0	2882.0	2912.8	2916.0	2901.6	2848.5	2781.0	2702.4	2536.6
25°	2809.7	2826.7	2906.4	2981.3	2997.3	2997.8	2977.1	2911.2	2835.2	2756.0	2565.3
27.5°	2935.1	2952.1	3023.8	3097.2	3088.7	3083.9	3055.7	2989.8	2905.9	2829.9	2616.3
30°	3074.8	3093.4	3161.4	3213.5	3193.3	3183.8	3160.9	3075.9	3004.2	2930.8	2694.4
32.5°	3219.4	3236.4	3295.9	3331.5	3306.0	3301.7	3267.2	3189.6	3132.2	3084.9	2820.9
35°	3367.6	3379.8	3438.3	3458.5	3424.5	3423.4	3413.8	3342.6	3306.5	3328.8	3004.7
37.5°	3519.0	3522.2	3572.2	3573.2	3563.1	3567.4	3577.5	3532.9	3542.9	3612.6	3243.8
40°	3654.0	3662.5	3698.6	3709.8	3727.3	3742.2	3792.7	3763.5	3841.6	3964.8	3541.4
42.5°	3753.9	3770.4	3828.3	3857.0	3913.8	3937.2	4008.4	4035.5	4192.8	4377.7	3895.2
45°	3838.4	3863.9	3956.9	4015.8	4112.0	4152.9	4254.9	4345.8	4589.7	4825.6	4267.7
47.5°	3929.8	3962.2	4078.5	4191.2	4321.9	4368.1	4553.5	4689.6	5013.2	5276.2	4618.9
50°	4064.2	4089.2	4202.9	4379.8	4542.9	4602.4	4859.1	5054.1	5443.5	5705.5	4923.4
52.5°	4251.8	4242.2	4338.4	4586.5	4805.4	4878.7	5185.3	5441.9	5879.8	6093.9	5180.5
55°	4440.4	4424.4	4491.9	4802.7	5111.5	5188.5	5544.5	5831.4	6294.7	6443.5	5377.7
57.5°	4650.3	4620.0	4676.8	5046.6	5460.0	5551.9	5946.7	6245.3	6702.8	6726.2	5503.0
60°	4866.5	4825.6	4889.4	5349.0	5902.6	6011.0	6417.5	6649.1	7087.5	6952.5	5543.4
62.5°	5055.7	5027.0	5125.3	5686.4	6401.5	6520.6	6879.7	7078.5	7466.9	7046.6	5397.8
65°	5220.9	5225.7	5395.7	6065.7	6957.8	7084.8	7410.0	7607.7	7765.5	6990.8	5057.3
67.5°	5418.0	5445.1	5735.2	6565.2	7658.1	7797.4	8181.5	8184.7	7932.3	6663.5	4386.7
70°	5705.5	5761.3	6202.3	7258.0	8653.9	8845.1	9141.6	8523.7	7698.0	5776.2	3451.6
72.5°	5960.5	6064.7	6699.1	8050.8	9867.4	10012.5	9703.3	8328.2	6718.7	4328.8	2150.3
74°	5856.9	5986.0	6789.4	8441.3	10324.4	10394.0	9513.6	7757.5	5601.9	2997.8	1249.7
75°	5633.8	5774.0	6657.6	8437.6	10266.5	10227.7	9055.6	7105.6	4613.6	2044.6	831.5
77.5°	4546.6	4694.9	5609.8	7231.5	8418.0	8381.3	6956.3	4766.6	2020.7	670.5	422.4
80°	2643.4	2756.6	3482.4	4592.3	5676.3	5742.7	4574.8	2358.6	794.9	376.7	286.4
82.5°	1174.3	1252.4	1682.2	2344.3	3425.5	3511.1	2395.8	1235.9	491.0	229.0	172.2
85°	770.4	828.4	1021.2	1116.3	1631.2	1689.6	1172.7	962.2	324.1	125.9	126.5
87.5°	554.2	610.0	758.7	662.6	748.7	708.8	638.1	890.5	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°	2657.7	2657.7	2657.7	2657.7	2657.7	2657.7	2657.7	2657.7	2657.7	2657.7	2657.7
2.5°	2632.8	2624.3	2605.1	2569.0	2548.8	2531.8	2503.7	2487.2	2479.7	2479.2	2482.4
5°	2567.4	2547.8	2498.3	2437.8	2389.4	2345.3	2290.6	2257.6	2234.3	2220.5	2224.2
7.5°	2491.4	2460.6	2383.0	2286.3	2208.8	2123.2	2038.7	1988.3	1948.9	1919.7	1925.0
10°	2439.4	2396.9	2283.7	2144.5	2015.4	1891.0	1774.7	1705.1	1649.8	1607.3	1610.5
12.5°	2421.8	2364.4	2207.7	2021.7	1840.5	1670.5	1518.6	1411.8	1354.9	1306.6	1310.3
15°	2424.5	2347.4	2143.9	1911.2	1683.3	1469.1	1284.8	1159.9	1082.9	1049.4	1049.9
17.5°	2426.6	2327.8	2077.0	1792.7	1527.6	1281.1	1080.7	954.3	881.5	850.7	851.2
20°	2419.7	2295.9	1994.1	1656.7	1365.0	1108.4	914.4	807.1	751.8	727.9	727.9
22.5°	2410.7	2258.2	1900.6	1520.2	1204.5	958.5	795.4	713.6	681.7	665.8	665.2
25°	2414.9	2230.0	1804.9	1379.9	1056.8	839.0	716.2	662.0	640.8	630.7	630.2
27.5°	2437.8	2216.7	1716.7	1240.1	927.7	749.2	663.1	624.9	611.0	604.7	604.7
30°	2479.2	2216.7	1624.8	1121.1	820.4	682.8	622.2	596.2	586.6	582.3	582.3
32.5°	2551.5	2229.0	1536.1	1003.2	734.8	630.7	588.2	570.7	563.2	561.1	561.1
35°	2675.8	2270.4	1449.5	891.6	665.8	588.2	555.8	545.7	540.4	539.8	541.4
37.5°	2850.6	2354.9	1368.2	809.2	616.9	553.7	528.7	520.7	517.5	520.2	522.3
40°	3070.6	2469.6	1294.3	734.8	579.7	526.0	503.7	498.4	496.8	500.5	503.7
42.5°	3336.3	2624.8	1233.8	681.2	551.0	502.6	482.5	476.1	474.5	478.7	483.0
45°	3623.7	2791.6	1191.3	641.3	528.7	485.1	463.9	456.9	453.8	455.9	460.7
47.5°	3885.1	2949.4	1174.3	613.2	507.4	470.2	447.4	438.9	433.6	432.5	436.2
50°	4105.6	3066.9	1182.2	596.2	490.4	453.8	431.4	421.9	413.9	409.1	411.8
52.5°	4266.1	3140.7	1189.7	588.7	477.1	435.7	413.9	404.9	394.3	386.3	386.3
55°	4382.5	3157.7	1173.2	582.9	467.0	416.0	394.3	385.7	375.1	366.1	365.0
57.5°	4428.2	3109.9	1112.1	574.4	460.1	397.4	373.5	367.2	358.1	347.5	347.0
60°	4366.5	2962.2	994.1	556.3	451.1	382.0	352.8	348.6	344.3	334.2	333.7
62.5°	4118.9	2638.1	841.6	519.6	433.0	365.6	333.7	335.8	336.3	329.4	328.4
65°	3669.9	2192.8	692.9	471.8	405.9	345.9	314.0	324.1	330.0	328.9	327.3
67.5°	3017.5	1706.7	587.1	421.3	370.3	318.8	292.8	304.5	309.2	313.0	311.9
70°	2239.6	1203.5	485.6	368.2	327.3	286.9	265.1	271.0	267.8	272.0	273.6
72.5°	1248.6	722.1	395.8	315.1	282.7	249.7	234.3	233.3	226.3	226.3	226.3
74°	749.2	529.7	348.0	282.1	255.6	225.3	212.0	207.2	200.8	201.4	200.8
75°	602.5	455.4	319.3	260.4	236.4	210.9	197.7	191.3	186.5	186.5	186.0
77.5°	380.4	345.9	257.2	207.2	189.2	173.7	164.7	156.2	156.2	155.7	155.2
80°	287.5	275.2	200.3	156.7	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	94.0	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)