

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: P322410

Luminaire Tested: **GAN-SA6C-830-U-T3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322410
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-15)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA6C-830-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24497 lumens
Efficiency: N/A
Efficacy: 73.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 333
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



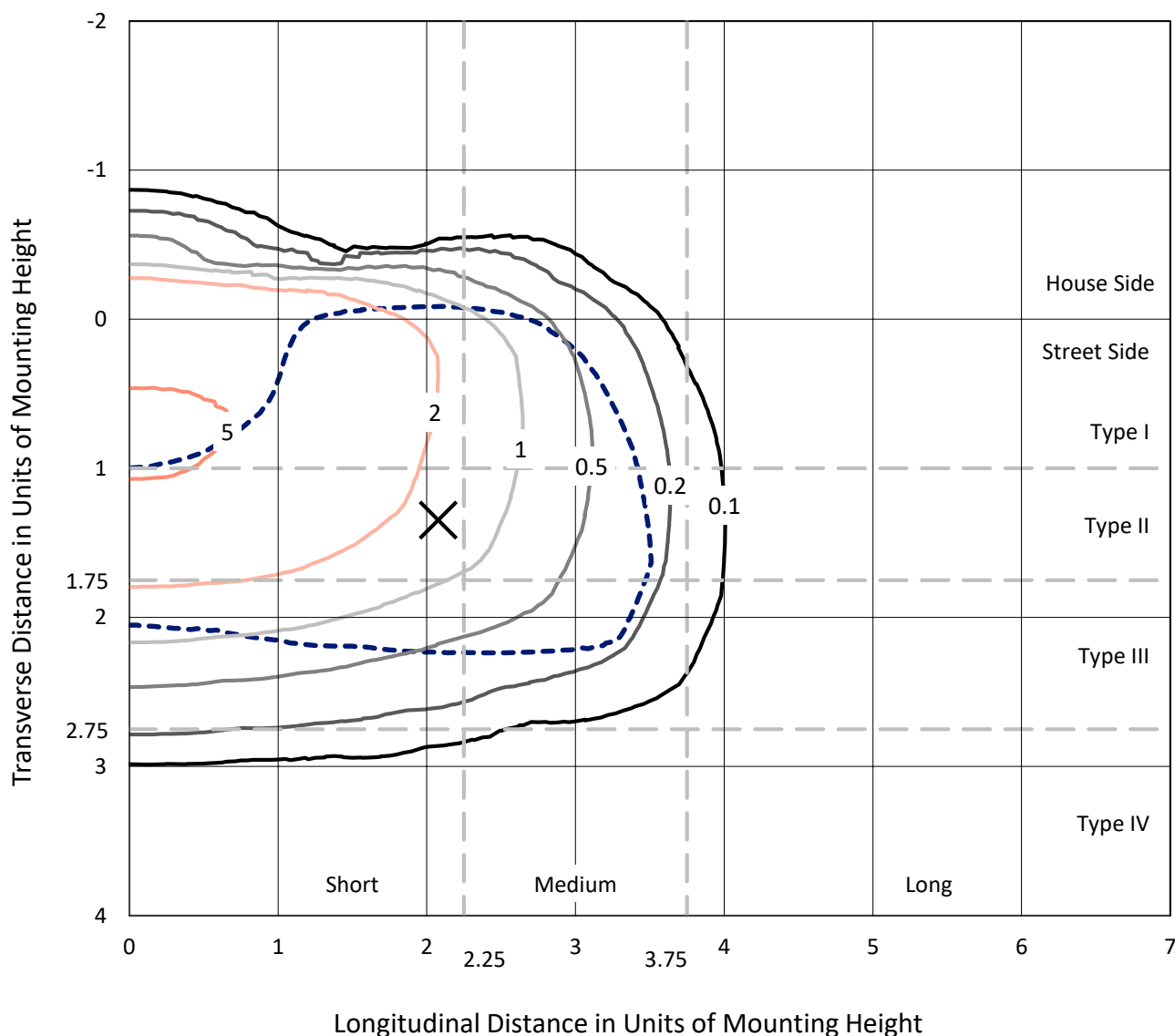
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

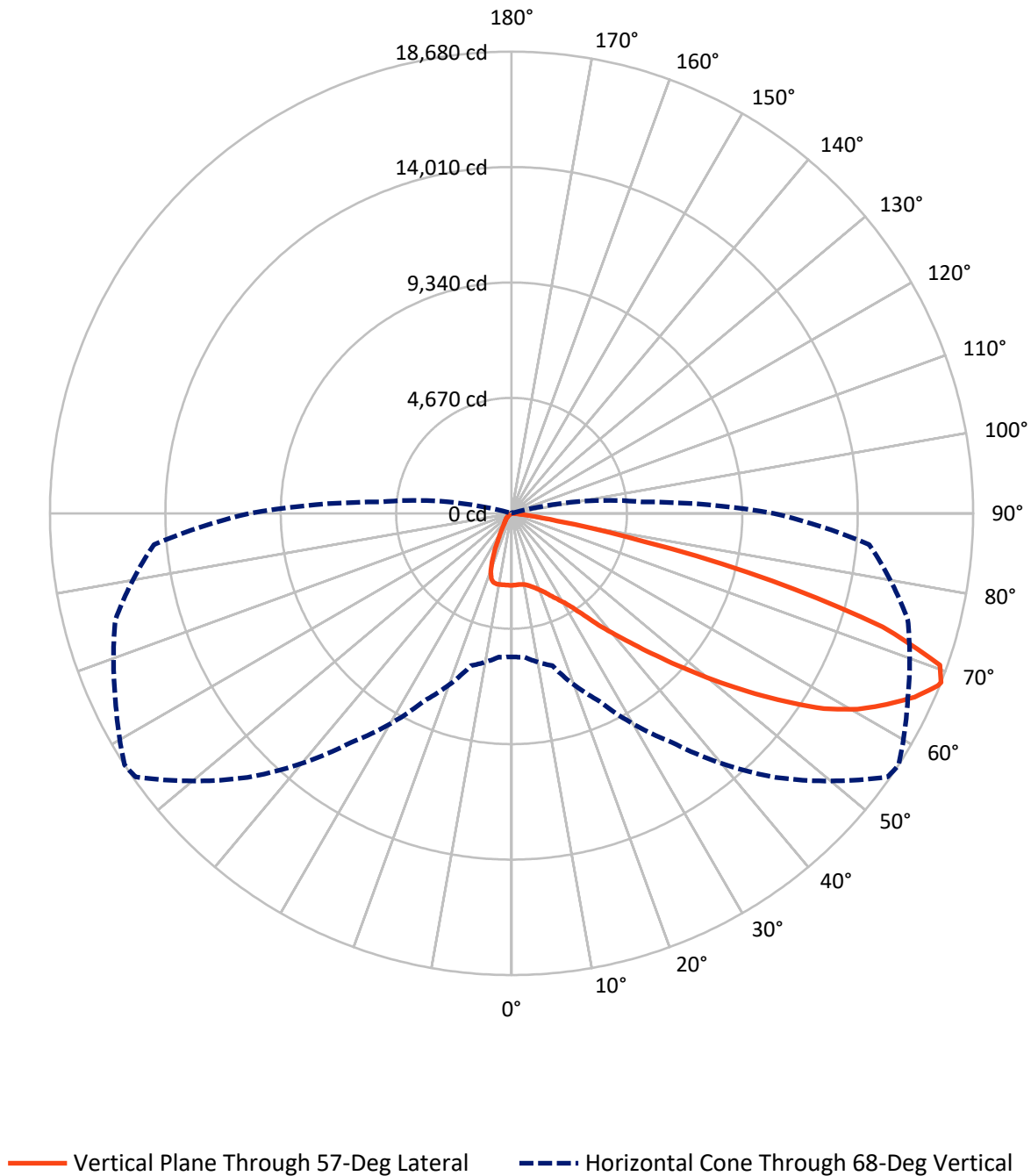


Based on 25 foot mounting height. Maximum calculated value = 6 fc

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	2686.2	0.0	2686.2
	% Fixture	11.0	0.0	11.0
Street Side	Lumens	21810.7	0.0	21810.7
	% Fixture	89.0	0.0	89.0
Total	Lumens	24497.0	0.0	24497.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	272.4	1.1
10°-20°	754.9	3.1
20°-30°	1302.3	5.3
30°-40°	2247.6	9.2
40°-50°	3844.6	15.7
50°-60°	6151.0	25.1
60°-70°	7106.8	29.0
70°-80°	2715.6	11.1
80°-90°	101.8	0.4
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°	24497.0	100.0
0°-180°	24497.0	100.0

Coefficient of Utilization



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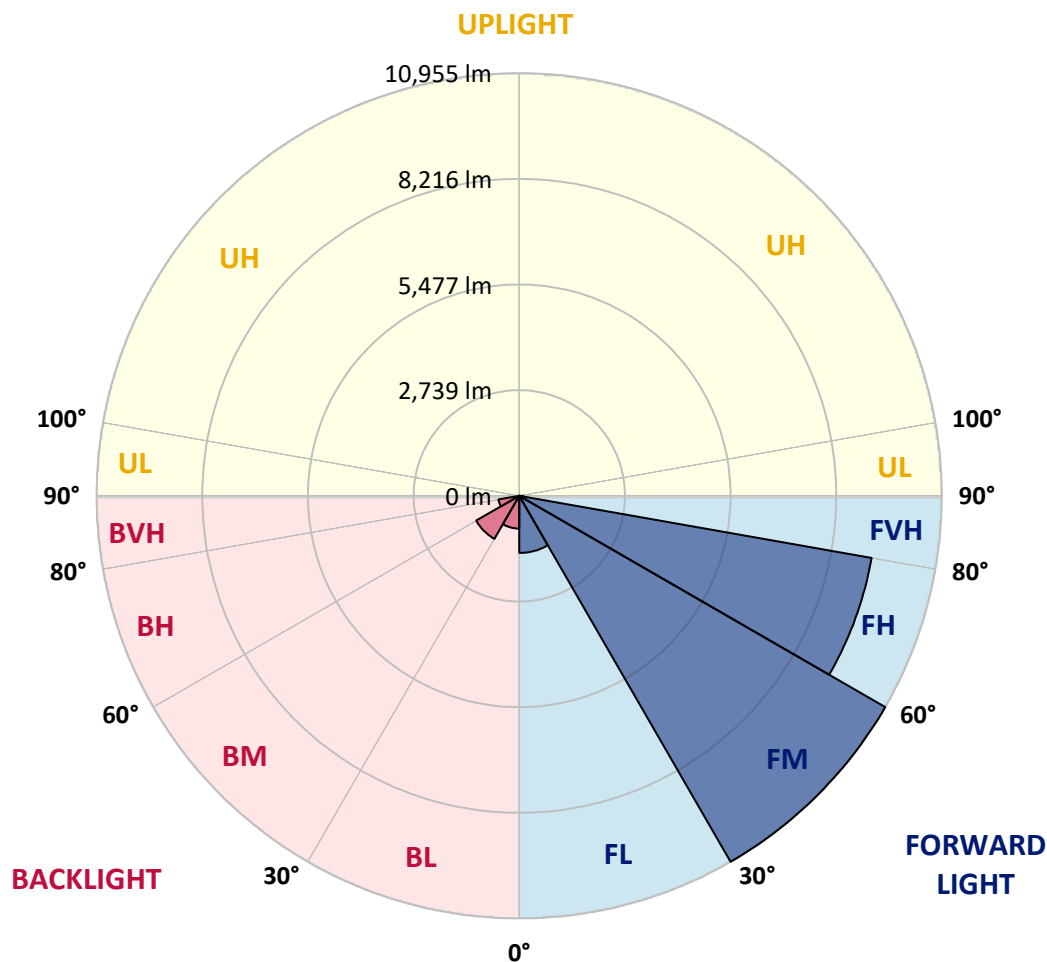
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1480.6	6.0			
FM	(30°-60°)	10954.9	44.7			
FH	(60°-80°)	9275.3	37.9			G4/12000
FVH	(80°-90°)	99.9	0.4			G1/100
BL	(0°-30°)	848.9	3.5	B2/1000		
BM	(30°-60°)	1288.4	5.3	B2/2500		
BH	(60°-80°)	547.1	2.2	B2/1000		G2/1000
BVH	(80°-90°)	1.9	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	2910.9	2910.9	2910.9	2910.9	2910.9	2910.9	2910.9	2910.9	2910.9	2910.9	2910.9
2.5°	2842.5	2855.3	2864.6	2870.3	2877.3	2892.4	2897.0	2903.9	2907.4	2907.4	2915.5
5°	2730.2	2744.1	2763.8	2780.0	2812.4	2854.1	2884.2	2895.8	2916.7	2935.2	2945.6
7.5°	2625.9	2642.2	2665.3	2703.5	2759.1	2826.3	2888.9	2905.1	2945.6	2985.0	3004.7
10°	2558.8	2571.5	2601.6	2656.1	2729.0	2822.9	2910.9	2930.6	3000.1	3066.1	3103.2
12.5°	2535.6	2547.2	2578.4	2639.8	2730.2	2840.2	2961.9	2990.8	3092.7	3188.9	3241.0
15°	2569.2	2571.5	2605.1	2663.0	2752.2	2883.1	3046.4	3081.2	3209.7	3334.8	3399.7
17.5°	2698.9	2688.5	2705.9	2731.3	2802.0	2939.8	3135.6	3187.7	3359.2	3506.3	3567.7
20°	3023.2	3023.2	2983.9	2914.4	2915.5	3027.9	3256.1	3315.1	3524.8	3695.1	3750.7
22.5°	3578.1	3567.7	3488.9	3318.6	3162.2	3179.6	3403.2	3479.6	3724.0	3905.9	3924.4
25°	4245.3	4232.5	4110.9	3871.1	3600.1	3425.2	3602.4	3690.4	3961.5	4122.5	4084.3
27.5°	4951.9	4941.4	4821.0	4523.3	4137.6	3816.7	3839.9	3923.3	4203.6	4362.3	4240.7
30°	5636.4	5639.9	5520.6	5214.8	4778.1	4315.9	4141.0	4189.7	4438.7	4599.7	4426.0
32.5°	6287.4	6292.1	6189.0	5847.3	5439.5	4896.3	4558.0	4545.3	4712.1	4870.8	4671.6
35°	6867.8	6879.3	6808.7	6543.4	6111.4	5542.6	5099.0	5068.9	5100.1	5279.7	5048.0
37.5°	7427.2	7434.2	7380.9	7157.3	6795.9	6252.7	5782.4	5739.5	5672.4	5810.2	5544.9
40°	8040.0	8022.6	7961.2	7758.5	7448.1	7036.9	6516.8	6442.6	6325.7	6448.4	6198.2
42.5°	8609.9	8590.2	8600.6	8371.3	8109.5	7843.1	7372.8	7245.4	7177.0	7318.3	6999.8
45°	9322.3	9311.8	9346.6	9147.4	8935.4	8741.9	8353.9	8214.9	8184.8	8350.4	7969.3
47.5°	10025.4	10050.9	10158.6	10074.0	9988.3	9818.0	9392.9	9330.4	9348.9	9549.3	8992.1
50°	10611.5	10641.6	10937.0	11034.3	11158.2	11058.6	10632.3	10594.1	10667.1	10847.8	10092.6
52.5°	11035.4	11096.8	11464.0	11912.3	12364.0	12431.2	12006.1	11971.4	12069.8	12097.6	10942.8
55°	11329.6	11384.1	11799.9	12620.0	13539.7	13829.3	13565.2	13430.9	13412.3	13137.8	11837.0
57.5°	11381.8	11376.0	11973.7	13077.6	14461.8	15208.9	15042.1	14910.1	14530.1	14099.2	12862.1
60°	11087.6	11121.1	11815.0	13236.3	15040.9	16252.6	16265.3	16093.9	15502.0	15034.0	13856.0
62.5°	10181.7	10318.4	11019.2	12820.4	15034.0	16673.0	17161.9	17031.0	16323.2	15799.7	14863.7
65°	8713.0	8761.6	9430.0	11395.7	14018.1	16497.0	17969.2	17920.6	17063.4	16543.3	15381.5
67.5°	6362.7	6257.3	6959.3	8973.6	11868.3	15470.7	18548.4	18609.8	17634.5	16696.2	14830.1
68°	5806.7	5838.0	6384.7	8374.7	11305.3	15108.1	18586.6	18680.4	17691.2	16596.6	14529.0
70°	3461.1	3521.3	4009.0	5766.2	8600.6	13056.7	18174.2	18388.5	17353.0	15569.1	12566.7
72.5°	883.8	955.6	1416.6	2580.8	4912.5	9199.5	15342.1	15704.7	15066.4	12630.5	8483.6
75°	363.7	382.2	506.2	850.2	1830.2	4144.5	10112.2	10888.3	10444.7	7561.6	3834.1
77.5°	251.4	264.1	325.5	471.4	792.3	1405.1	4957.7	5518.3	4971.6	2580.8	836.3
80°	180.7	191.1	232.8	313.9	455.2	501.6	1615.9	1868.4	1483.8	566.4	207.3
82.5°	107.7	115.8	173.7	223.6	276.8	239.8	401.9	456.4	429.7	281.5	92.7
85°	53.3	62.5	117.0	159.8	149.4	100.8	122.8	136.7	169.1	171.4	49.8
87.5°	3.5	6.9	68.3	96.1	41.7	23.2	35.9	44.0	60.2	84.6	20.8
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°	2910.9	2910.9	2910.9	2910.9	2910.9	2910.9	2910.9	2910.9	2910.9	2910.9	2910.9
2.5°	2919.0	2920.2	2912.0	2908.6	2910.9	2897.0	2891.2	2893.5	2893.5	2897.0	2891.2
5°	2948.0	2948.0	2934.1	2915.5	2905.1	2878.5	2861.1	2856.4	2853.0	2850.7	2846.0
7.5°	3010.5	3003.6	2979.2	2938.7	2903.9	2846.0	2802.0	2778.8	2767.3	2762.6	2759.1
10°	3111.3	3098.5	3058.0	2982.7	2902.8	2799.7	2703.5	2635.2	2578.4	2555.3	2541.4
12.5°	3246.8	3228.3	3159.9	3034.8	2894.7	2704.7	2496.2	2295.8	2109.3	2032.9	1994.6
15°	3403.2	3376.5	3268.8	3078.8	2847.2	2490.4	2037.5	1686.5	1428.2	1330.9	1289.2
17.5°	3561.9	3527.1	3363.8	3106.6	2704.7	2046.8	1429.4	1079.6	907.0	860.6	844.4
20°	3721.7	3670.8	3446.0	3085.8	2382.7	1475.7	942.9	788.8	739.0	725.1	720.5
22.5°	3873.5	3794.7	3520.2	3004.7	1886.9	990.4	746.0	697.3	681.1	673.0	670.7
25°	4005.5	3895.5	3585.0	2754.5	1335.6	748.3	671.8	655.6	634.8	619.7	620.9
27.5°	4129.5	3996.2	3624.4	2342.1	890.8	639.4	622.0	600.0	561.8	539.8	539.8
30°	4278.9	4130.6	3653.4	1802.4	655.6	565.3	551.4	517.8	465.6	436.7	436.7
32.5°	4503.6	4334.5	3634.8	1264.9	543.3	496.9	464.5	418.2	361.4	333.6	332.4
35°	4847.6	4649.5	3502.8	829.4	479.5	432.1	379.9	323.2	273.4	250.2	249.0
37.5°	5311.0	5071.2	3206.3	593.1	429.7	371.8	309.3	246.7	209.7	194.6	193.4
40°	5912.1	5561.2	2782.3	480.7	383.4	313.9	238.6	191.1	165.6	154.1	155.2
42.5°	6633.8	6085.9	2273.8	414.7	338.2	258.3	186.5	150.6	134.4	126.3	123.9
45°	7435.3	6603.7	1741.0	369.5	293.1	208.5	145.9	119.3	106.6	101.9	101.9
47.5°	8316.8	7107.5	1274.2	330.1	244.4	161.0	117.0	97.3	86.9	83.4	82.2
50°	9117.2	7457.3	918.6	288.4	200.4	127.4	95.0	81.1	74.1	69.5	69.5
52.5°	9784.4	7567.4	676.5	243.2	162.2	101.9	78.8	69.5	62.5	59.1	59.1
55°	10371.7	7522.2	502.7	200.4	130.9	83.4	67.2	59.1	53.3	49.8	49.8
57.5°	10934.7	7376.3	375.3	163.3	105.4	67.2	56.8	49.8	44.0	41.7	41.7
60°	11394.5	7133.0	279.2	132.0	84.6	54.4	47.5	40.5	35.9	32.4	32.4
62.5°	11767.5	6864.3	205.0	108.9	67.2	42.9	37.1	33.6	26.6	23.2	23.2
65°	11769.8	6418.3	154.1	90.3	52.1	33.6	27.8	26.6	17.4	13.9	12.7
67.5°	10918.4	5533.4	118.1	77.6	40.5	25.5	20.8	22.0	9.3	5.8	4.6
68°	10609.2	5308.6	111.2	76.4	38.2	24.3	19.7	22.0	8.1	4.6	3.5
70°	8944.6	4223.3	89.2	74.1	33.6	18.5	16.2	22.0	6.9	3.5	2.3
72.5°	5721.0	2451.0	66.0	59.1	25.5	13.9	10.4	19.7	6.9	2.3	1.2
75°	2434.8	759.9	45.2	41.7	15.1	10.4	6.9	12.7	4.6	1.2	0.0
77.5°	513.1	171.4	26.6	25.5	10.4	6.9	4.6	3.5	1.2	0.0	0.0
80°	132.0	49.8	13.9	12.7	5.8	3.5	2.3	0.0	0.0	0.0	0.0
82.5°	41.7	19.7	8.1	5.8	2.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	20.8	11.6	4.6	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	11.6	3.5	1.2	0.0	0.0	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)