

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: P322599

Luminaire Tested: **GAN-SA5B-750-U-T4FT-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322599
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-17)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA5B-750-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 5000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20283 lumens
Efficiency: N/A
Efficacy: 96.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

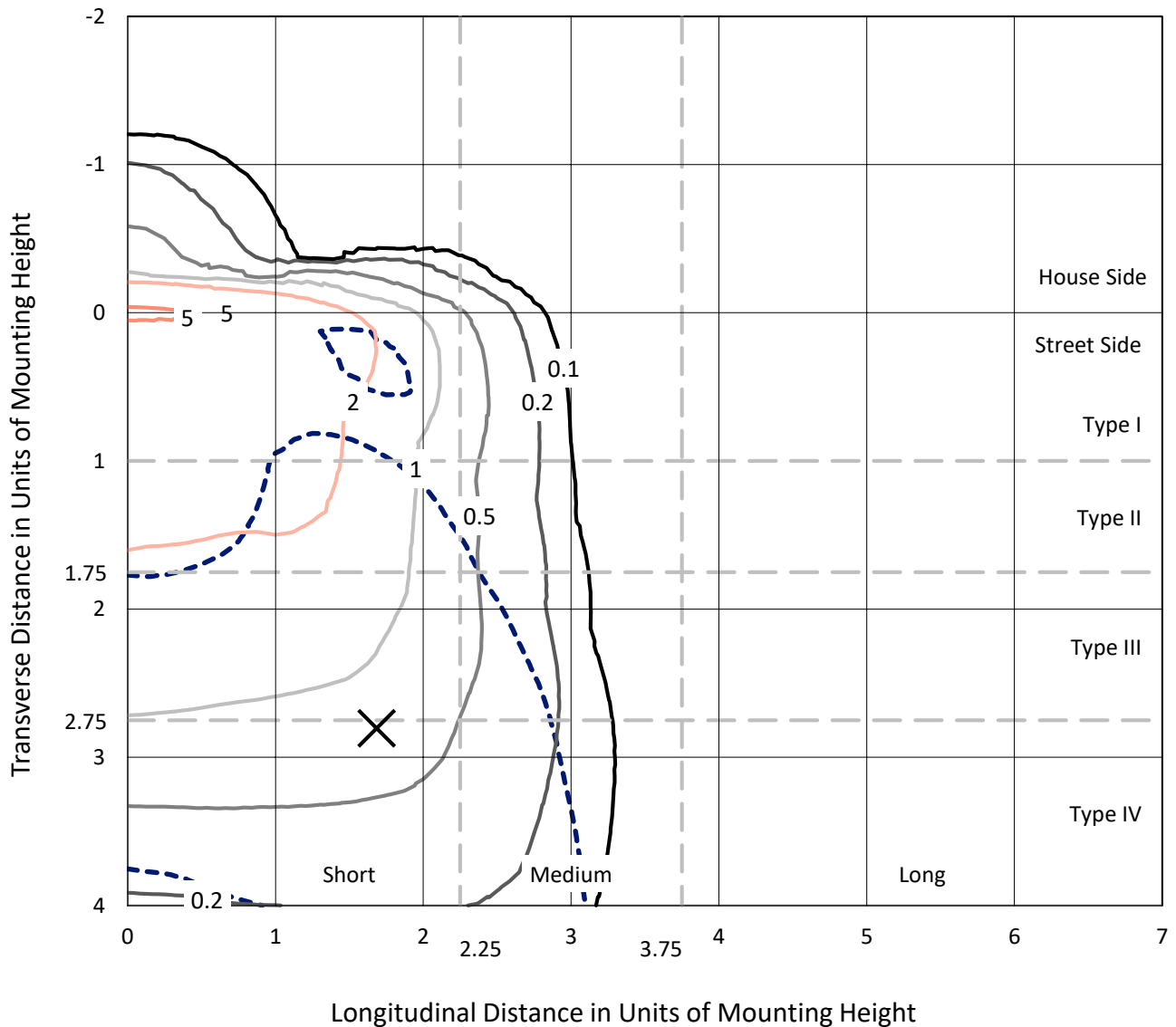
Input Watts (W): 210
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

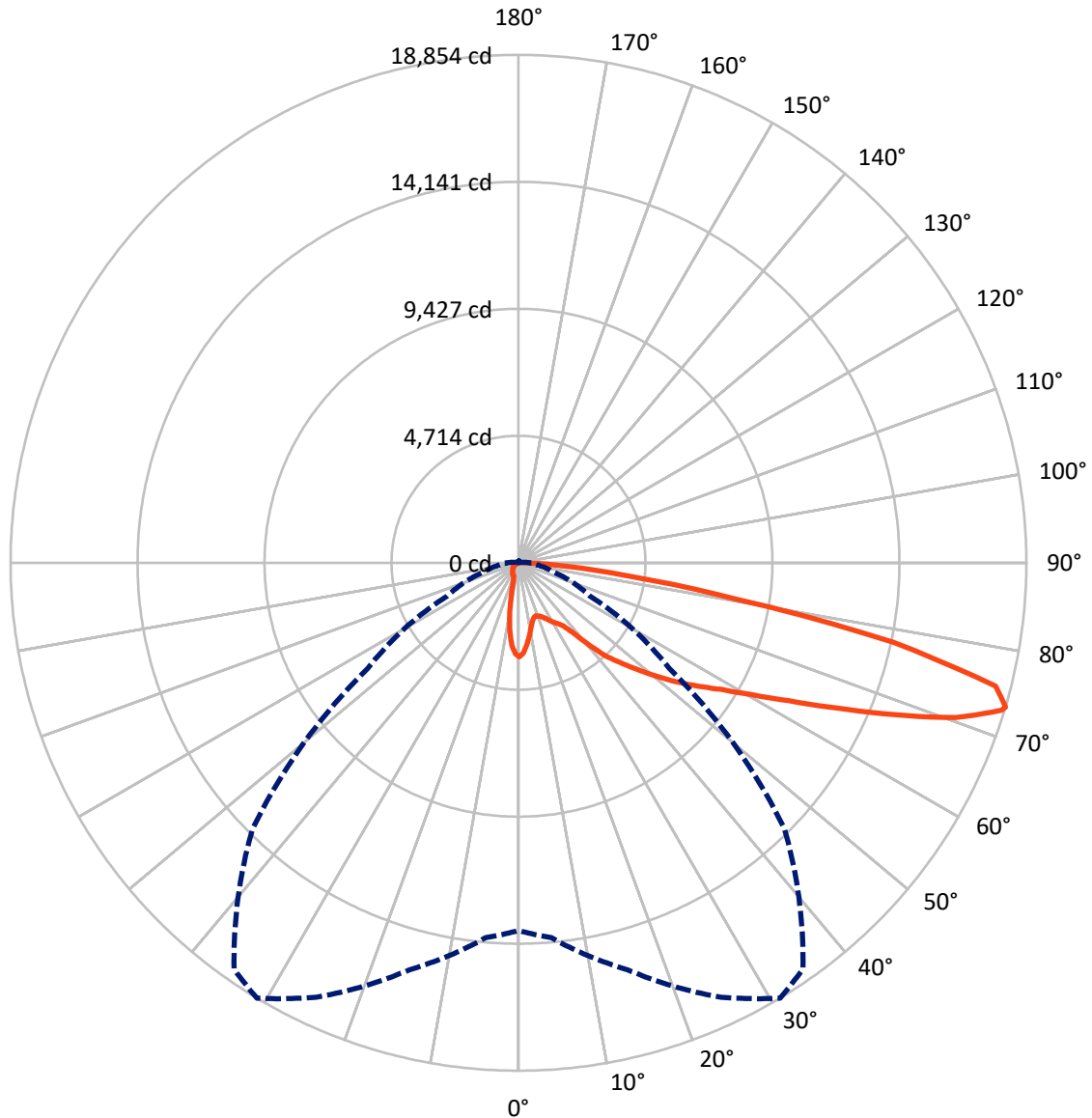
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 31-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1848.9	0.0	1848.9
	% Fixture	9.1	0.0	9.1
Street Side	Lumens	18434.1	0.0	18434.1
	% Fixture	90.9	0.0	90.9
Total	Lumens	20283.0	0.0	20283.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	289.3	1.4
10°-20°	628.3	3.1
20°-30°	941.3	4.6
30°-40°	1497.6	7.4
40°-50°	2674.4	13.2
50°-60°	4149.8	20.5
60°-70°	5516.6	27.2
70°-80°	4149.6	20.5
80°-90°	436.0	2.1
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°	20283.0	100.0
0°-180°	20283.0	100.0

Coefficient of Utilization

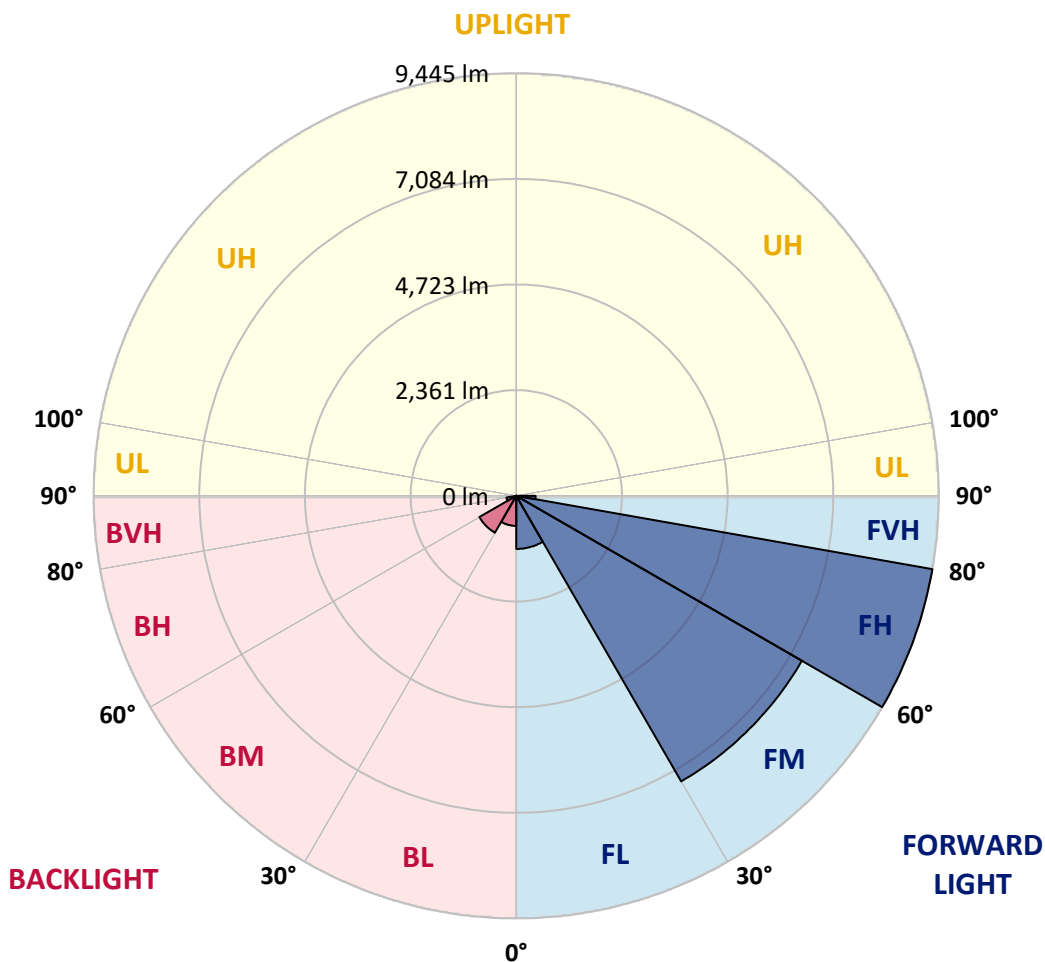


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1186.6	5.9			
FM (30°-60°)	7370.1	36.3			
FH (60°-80°)	9445.0	46.6			G4/12000
FVH (80°-90°)	432.4	2.1			G3/500
BL (0°-30°)	672.3	3.3	B2/1000		
BM (30°-60°)	951.7	4.7	B1/1000		
BH (60°-80°)	221.2	1.1	B1/500		G1/500
BVH (80°-90°)	3.7	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	31°	35°	45°	55°	65°	75°	85°
0°	3489.7	3489.7	3489.7	3489.7	3489.7	3489.7	3489.7	3489.7	3489.7	3489.7	3489.7
2.5°	3307.1	3321.0	3335.9	3338.9	3363.7	3364.7	3400.4	3427.2	3454.0	3479.8	3488.7
5°	2967.7	2990.5	3017.3	3044.1	3096.7	3117.5	3204.9	3294.2	3379.6	3460.9	3500.6
7.5°	2605.4	2631.2	2668.9	2735.4	2794.0	2834.7	2972.6	3131.4	3290.2	3440.1	3526.5
10°	2274.9	2298.7	2338.4	2408.9	2499.2	2554.8	2740.4	2960.7	3194.0	3421.2	3565.2
12.5°	2064.5	2077.4	2099.2	2174.6	2256.0	2318.5	2536.9	2809.8	3114.6	3420.3	3627.7
15°	2025.8	2029.7	2011.9	2045.6	2109.1	2169.7	2391.0	2687.8	3054.0	3436.1	3709.1
17.5°	2087.3	2085.3	2025.8	2021.8	2072.4	2122.0	2319.5	2603.4	3011.3	3472.9	3814.3
20°	2180.6	2173.6	2070.4	2051.6	2105.2	2151.8	2314.6	2571.6	2995.5	3534.4	3942.3
22.5°	2304.7	2292.7	2131.0	2111.1	2168.7	2217.3	2376.1	2602.4	3009.3	3616.8	4091.2
25°	2458.5	2440.6	2235.2	2213.3	2271.9	2320.5	2486.3	2690.7	3051.0	3717.0	4279.8
27.5°	2632.2	2606.4	2401.9	2345.3	2411.8	2462.5	2633.2	2825.7	3116.5	3823.2	4511.0
30°	2796.0	2762.2	2577.6	2484.3	2565.7	2622.3	2792.0	2986.5	3221.7	3987.0	4827.7
32.5°	2960.7	2923.0	2734.4	2623.3	2696.7	2758.2	2955.8	3207.9	3419.3	4237.1	5248.5
35°	3339.9	3300.2	3068.9	2885.3	2884.3	2919.0	3185.0	3510.6	3680.3	4585.5	5750.7
37.5°	3978.1	3955.2	3734.9	3386.5	3293.2	3254.5	3497.7	3871.9	4055.5	5064.9	6317.4
40°	4676.8	4656.9	4409.8	4094.2	3952.3	3857.0	3946.3	4375.1	4585.5	5650.5	6896.1
42.5°	5465.9	5371.6	4930.9	4836.6	4709.5	4637.1	4556.7	4995.4	5236.6	6287.7	7469.8
45°	6182.5	6023.7	5452.0	5309.0	5280.3	5298.1	5342.8	5829.1	5969.1	7045.0	8041.5
47.5°	6609.3	6484.2	6045.5	5908.5	5900.6	6018.7	6356.2	6771.0	6698.6	7705.0	8544.7
50°	7015.2	6902.0	6537.8	6571.5	6608.3	6769.0	7506.5	7739.7	7364.6	8303.5	9006.2
52.5°	7343.7	7171.0	6980.5	7170.0	7350.7	7609.7	8693.6	8609.2	7837.0	8779.9	9401.2
55°	7533.3	7454.9	7547.2	7737.8	8077.2	8498.0	9814.1	9332.7	8182.4	9214.6	9664.3
57.5°	8228.1	8074.2	8257.8	8422.6	8865.3	9453.8	10773.9	9871.7	8431.5	9483.6	9724.8
60°	9068.7	8944.7	9052.9	9326.8	9924.3	10616.1	11671.1	10311.4	8561.6	9656.3	9568.0
62.5°	10406.7	10242.9	10175.4	10482.1	11274.1	12029.5	12352.0	10616.1	8532.8	9579.9	9030.0
65°	12199.2	12029.5	11727.7	12005.6	13013.0	13546.0	13113.3	10680.6	8334.3	8961.5	7670.3
67.5°	14035.4	13912.3	13654.2	14122.7	15031.9	15203.6	13918.2	10523.8	7695.1	7266.3	5419.2
70°	15248.2	15195.6	15363.4	16399.6	17210.5	17160.8	14656.7	9681.1	5997.9	4468.4	2680.8
72.5°	14373.8	14625.9	15864.6	17743.4	18734.0	18329.0	14277.5	7434.0	3428.2	1719.1	775.2
73°	13649.3	13971.8	15639.3	17794.1	18854.1	18410.4	13958.9	6823.6	2922.0	1356.8	587.6
75°	9495.5	9891.5	12947.5	16572.3	18292.3	17541.0	11635.4	4176.6	1353.8	601.5	237.2
77.5°	4610.3	4903.1	7129.3	11973.9	14225.9	13704.8	7243.5	1556.3	611.4	376.2	109.2
80°	1721.0	1913.6	3094.7	6094.1	8221.1	8436.5	3186.0	588.6	406.9	302.7	55.6
82.5°	450.6	502.2	1141.4	2717.5	4213.3	4409.8	1004.4	296.8	297.8	249.1	33.7
85°	143.9	164.8	356.3	1219.8	1985.1	1742.9	262.0	143.9	216.4	185.6	18.9
87.5°	17.9	22.8	113.1	286.8	437.7	243.2	40.7	42.7	92.3	103.2	10.9
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°	3489.7	3489.7	3489.7	3489.7	3489.7	3489.7	3489.7	3489.7	3489.7	3489.7	3489.7
2.5°	3497.7	3492.7	3493.7	3467.9	3451.0	3417.3	3382.5	3366.7	3349.8	3342.8	3349.8
5°	3515.5	3506.6	3480.8	3401.4	3317.0	3207.9	3105.6	3028.2	2930.9	2904.1	2931.9
7.5°	3543.3	3525.5	3450.0	3288.2	3100.7	2892.2	2658.0	2487.3	2347.3	2257.0	2289.8
10°	3584.0	3550.3	3398.4	3123.5	2788.0	2418.8	2086.3	1827.2	1643.6	1568.2	1565.2
12.5°	3652.5	3589.0	3334.9	2909.1	2405.9	1913.6	1477.9	1197.0	1048.1	951.8	949.9
15°	3727.9	3634.6	3254.5	2652.0	1961.2	1370.7	951.8	738.4	642.2	611.4	607.4
17.5°	3820.2	3687.2	3150.3	2335.4	1495.7	908.2	621.3	559.8	555.8	552.8	552.8
20°	3936.4	3749.8	3016.3	1973.1	1061.0	606.4	528.0	532.0	534.0	530.0	531.0
22.5°	4071.4	3813.3	2856.5	1584.1	717.6	507.2	505.2	510.2	512.1	510.2	511.2
25°	4228.2	3886.7	2662.0	1176.1	518.1	481.4	486.3	493.3	498.2	498.2	498.2
27.5°	4422.7	3976.1	2427.7	820.8	447.6	454.6	468.5	481.4	488.3	490.3	490.3
30°	4675.8	4087.2	2146.8	562.8	406.9	418.8	444.7	469.5	482.4	484.4	485.3
32.5°	4995.4	4212.3	1821.3	415.9	372.2	381.1	408.9	450.6	475.4	479.4	479.4
35°	5361.6	4357.2	1470.9	362.3	347.4	350.4	372.2	419.8	463.5	474.4	475.4
37.5°	5762.6	4500.1	1118.6	338.5	326.5	326.5	342.4	383.1	434.7	468.5	472.4
40°	6136.8	4586.5	784.1	319.6	307.7	307.7	321.6	351.4	400.0	450.6	461.5
42.5°	6482.2	4616.3	545.9	301.7	289.8	292.8	304.7	328.5	365.3	415.9	425.8
45°	6837.5	4611.3	398.0	280.9	272.0	280.9	289.8	307.7	334.5	363.3	365.3
47.5°	7105.5	4569.6	315.6	261.0	255.1	267.0	274.9	286.8	301.7	299.7	299.7
50°	7356.6	4468.4	254.1	234.2	238.2	252.1	256.1	260.0	261.0	242.2	240.2
52.5°	7547.2	4310.6	203.5	205.5	221.3	235.2	231.3	225.3	215.4	192.6	188.6
55°	7610.7	4006.8	159.8	169.7	196.5	214.4	199.5	186.6	167.7	148.9	144.9
57.5°	7495.6	3614.8	130.0	132.0	165.8	180.6	163.8	148.9	128.0	112.2	109.2
60°	7251.4	3179.1	107.2	99.3	128.0	140.9	130.0	115.1	96.3	84.4	83.4
62.5°	6767.1	2714.6	88.3	77.4	97.3	108.2	101.2	90.3	74.4	66.5	65.5
65°	5748.7	2171.7	71.5	62.5	75.4	84.4	78.4	70.5	58.6	52.6	51.6
67.5°	4012.8	1468.0	58.6	51.6	59.6	66.5	61.5	57.6	46.6	45.7	46.6
70°	1935.4	707.7	48.6	41.7	46.6	51.6	49.6	46.6	44.7	51.6	59.6
72.5°	554.8	237.2	38.7	34.7	37.7	40.7	42.7	41.7	48.6	62.5	72.5
73°	426.8	191.6	36.7	32.8	35.7	39.7	41.7	40.7	49.6	63.5	72.5
75°	182.6	92.3	27.8	26.8	29.8	34.7	36.7	36.7	49.6	64.5	69.5
77.5°	82.4	49.6	17.9	20.8	25.8	27.8	30.8	30.8	39.7	49.6	49.6
80°	46.6	26.8	13.9	15.9	18.9	18.9	18.9	16.9	17.9	19.9	21.8
82.5°	29.8	17.9	10.9	12.9	11.9	9.9	7.9	7.9	6.9	7.9	9.9
85°	16.9	9.9	9.9	7.9	5.0	4.0	5.0	4.0	1.0	0.0	1.0
87.5°	9.9	6.0	3.0	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)