

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: P322529

Luminaire Tested: **GAN-SA5C-730-U-T4FT-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322529
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-SA5C-730-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 1050mA 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: 22863 lumens
Efficiency: N/A
Efficacy: 81.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

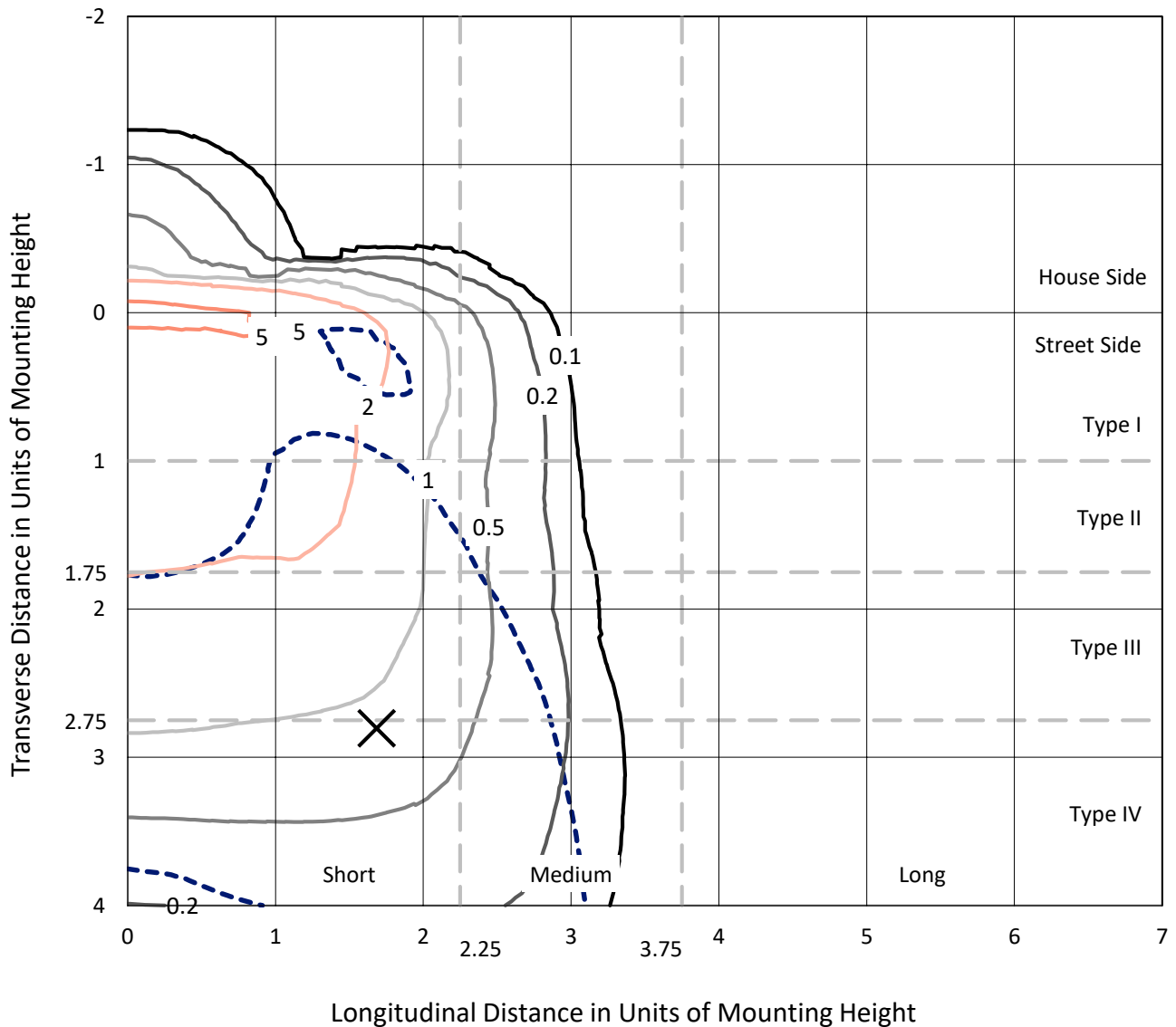
Input Watts (W): 279
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

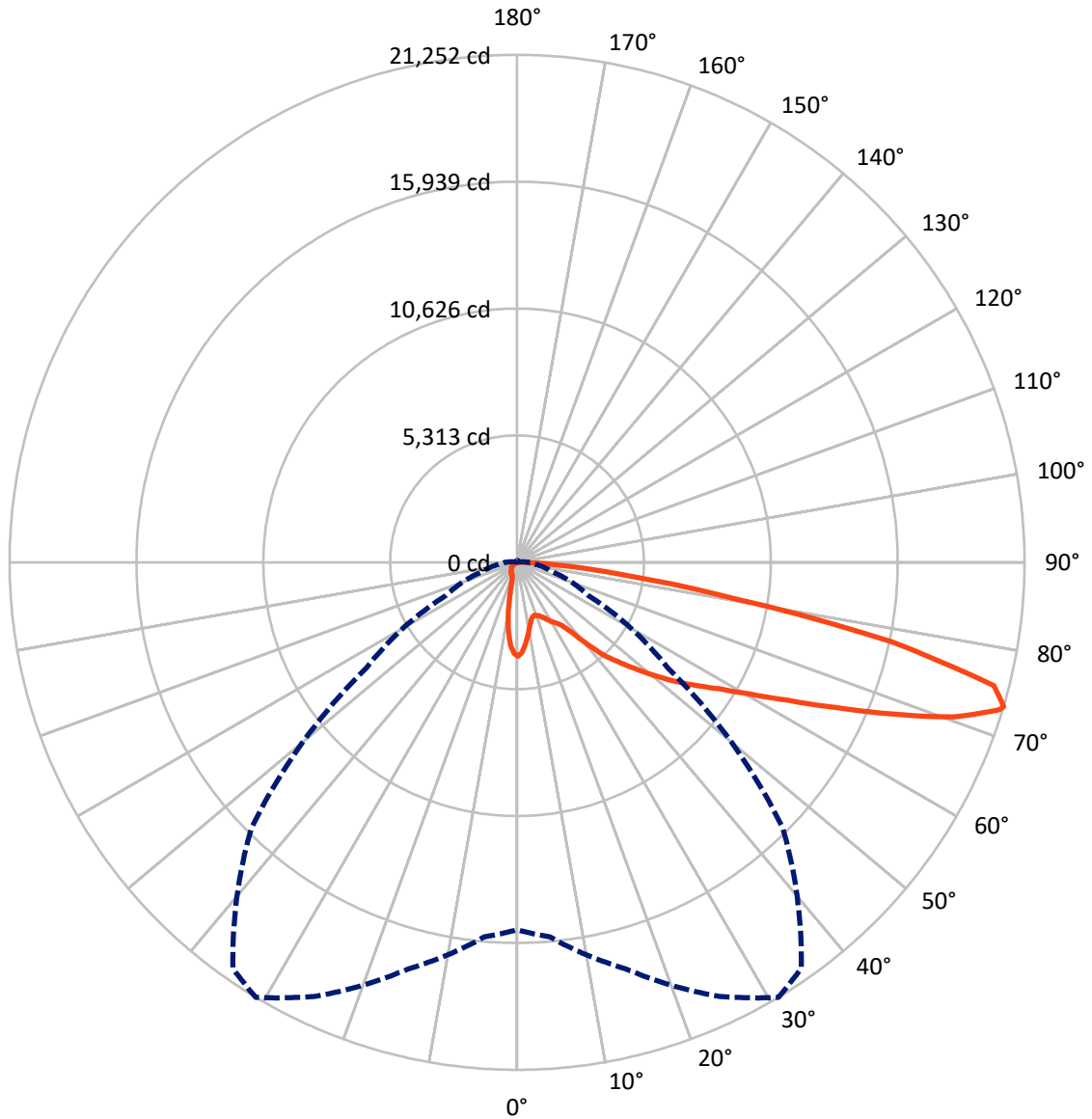
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 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	2084.0	0.0	2084.0
	% Fixture	9.1	0.0	9.1
Street Side	Lumens	20779.0	0.0	20779.0
	% Fixture	90.9	0.0	90.9
Total	Lumens	22863.0	0.0	22863.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	326.2	1.4
10°-20°	708.2	3.1
20°-30°	1061.0	4.6
30°-40°	1688.1	7.4
40°-50°	3014.5	13.2
50°-60°	4677.7	20.5
60°-70°	6218.3	27.2
70°-80°	4677.5	20.5
80°-90°	491.5	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°	22863.0	100.0
0°-180°	22863.0	100.0

Coefficient of Utilization

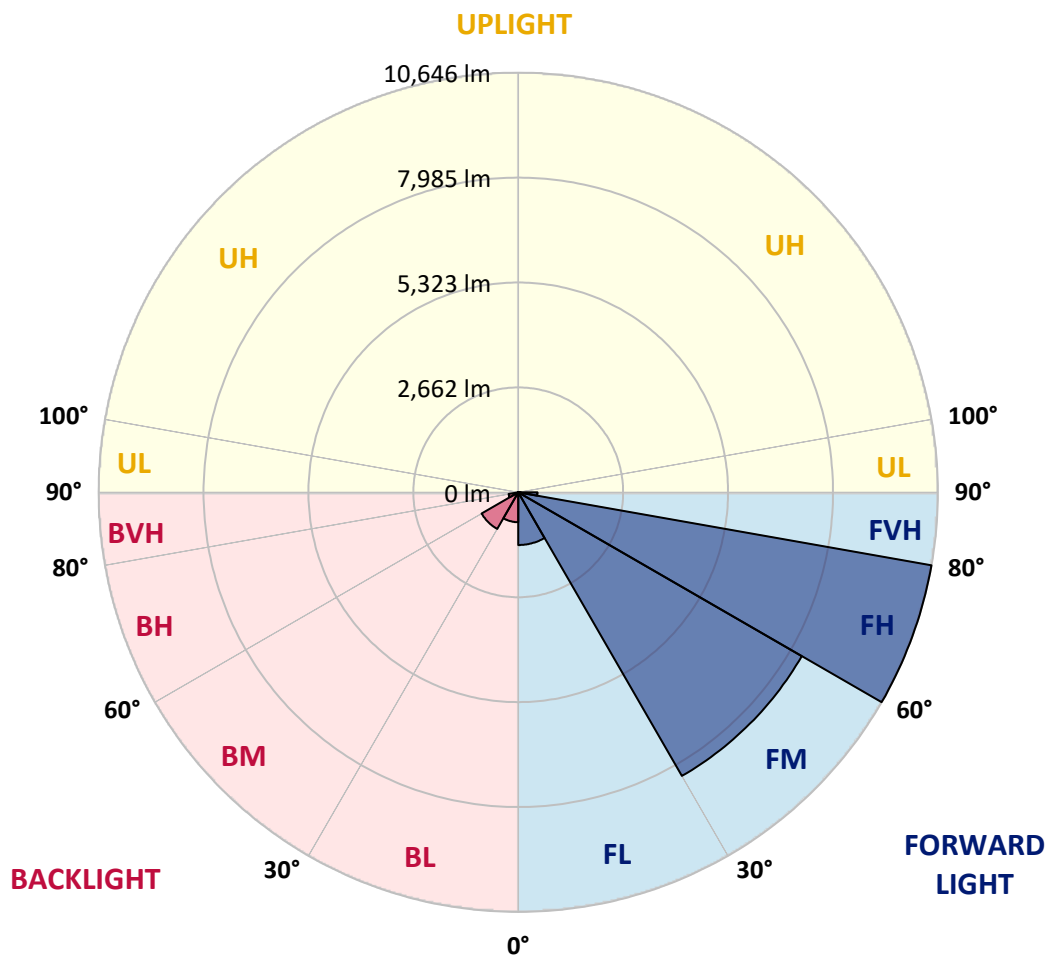


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1337.5	5.9			
FM (30°-60°)	8307.6	36.3			
FH (60°-80°)	10646.4	46.6			G4/12000
FVH (80°-90°)	487.4	2.1			G3/500
BL (0°-30°)	757.8	3.3	B2/1000		
BM (30°-60°)	1072.7	4.7	B2/2500		
BH (60°-80°)	249.3	1.1	B1/500		G1/500
BVH (80°-90°)	4.1	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°	3933.6	3933.6	3933.6	3933.6	3933.6	3933.6	3933.6	3933.6	3933.6	3933.6	3933.6
2.5°	3727.8	3743.4	3760.2	3763.6	3791.5	3792.7	3832.9	3863.1	3893.3	3922.4	3932.5
5°	3345.1	3370.9	3401.1	3431.3	3490.6	3514.1	3612.5	3713.2	3809.4	3901.2	3945.9
7.5°	2936.8	2965.9	3008.4	3083.4	3149.4	3195.2	3350.7	3529.7	3708.8	3877.7	3975.0
10°	2564.2	2591.1	2635.8	2715.3	2817.1	2879.7	3088.9	3337.3	3600.2	3856.4	4018.7
12.5°	2327.1	2341.6	2366.2	2451.2	2543.0	2613.5	2859.6	3167.3	3510.7	3855.3	4089.1
15°	2283.4	2287.9	2267.8	2305.8	2377.4	2445.7	2695.1	3029.7	3442.5	3873.2	4180.9
17.5°	2352.8	2350.6	2283.4	2279.0	2336.0	2391.9	2614.6	2934.6	3394.4	3914.6	4299.5
20°	2458.0	2450.1	2333.8	2312.5	2372.9	2425.5	2609.0	2898.8	3376.5	3984.0	4443.8
22.5°	2597.8	2584.4	2402.0	2379.6	2444.5	2499.4	2678.4	2933.4	3392.1	4076.8	4611.6
25°	2771.2	2751.1	2519.5	2494.9	2560.9	2615.7	2802.5	3033.0	3439.1	4189.8	4824.2
27.5°	2967.0	2937.9	2707.4	2643.7	2718.6	2775.7	2968.1	3185.2	3513.0	4309.5	5084.8
30°	3151.6	3113.6	2905.5	2800.3	2892.0	2955.8	3147.1	3366.4	3631.6	4494.1	5441.7
32.5°	3337.3	3294.8	3082.2	2956.9	3039.7	3109.1	3331.7	3615.9	3854.2	4776.1	5916.1
35°	3764.7	3719.9	3459.3	3252.3	3251.2	3290.3	3590.2	3957.1	4148.4	5168.8	6482.2
37.5°	4484.1	4458.3	4210.0	3817.3	3712.1	3668.5	3942.6	4364.4	4571.3	5709.1	7121.0
40°	5271.7	5249.3	4970.7	4615.0	4455.0	4347.6	4448.3	4931.6	5168.8	6369.2	7773.3
42.5°	6161.1	6054.8	5558.1	5451.8	5308.6	5226.9	5136.3	5630.8	5902.7	7087.5	8419.9
45°	6968.9	6789.9	6145.5	5984.3	5951.9	5972.0	6022.4	6570.6	6728.3	7941.1	9064.3
47.5°	7449.9	7309.0	6814.5	6660.1	6651.1	6784.3	7164.7	7632.3	7550.6	8685.1	9631.6
50°	7907.5	7780.0	7369.4	7407.4	7448.8	7630.1	8461.3	8724.2	8301.3	9359.7	10151.8
52.5°	8277.8	8083.2	7868.4	8082.1	8285.7	8577.7	9799.4	9704.3	8833.9	9896.7	10597.1
55°	8491.5	8403.1	8507.2	8722.0	9104.6	9579.0	11062.5	10519.9	9223.2	10386.7	10893.5
57.5°	9274.7	9101.3	9308.2	9494.0	9992.9	10656.4	12144.3	11127.4	9504.0	10689.9	10961.8
60°	10222.3	10082.4	10204.4	10513.2	11186.7	11966.5	13155.7	11623.0	9650.6	10884.6	10785.0
62.5°	11730.4	11545.8	11469.7	11815.4	12708.2	13559.6	13923.2	11966.5	9618.1	10798.5	10178.6
65°	13750.9	13559.6	13219.5	13532.7	14668.3	15269.1	14781.3	12039.2	9394.4	10101.5	8645.9
67.5°	15820.6	15681.9	15391.0	15919.1	16943.9	17137.5	15688.6	11862.4	8673.9	8190.6	6108.5
70°	17187.8	17128.5	17317.6	18485.6	19399.6	19343.7	16521.0	10912.6	6760.8	5036.7	3021.8
72.5°	16202.2	16486.3	17882.6	20000.4	21116.9	20660.5	16093.6	8379.7	3864.3	1937.7	873.8
73°	15385.4	15749.0	17628.6	20057.5	21252.3	20752.2	15734.5	7691.6	3293.7	1529.4	662.3
75°	10703.4	11149.7	14594.5	18680.2	20619.1	19772.2	13115.4	4707.8	1526.0	678.0	267.4
77.5°	5196.7	5526.8	8036.2	13496.9	16035.5	15448.1	8164.8	1754.2	689.2	424.0	123.1
80°	1940.0	2157.0	3488.4	6869.3	9266.8	9509.6	3591.3	663.4	458.7	341.2	62.7
82.5°	507.9	566.1	1286.6	3063.2	4749.2	4970.7	1132.2	334.5	335.6	280.8	38.0
85°	162.2	185.7	401.6	1375.0	2237.6	1964.6	295.4	162.2	243.9	209.2	21.3
87.5°	20.1	25.7	127.5	323.3	493.4	274.1	45.9	48.1	104.0	116.4	12.3
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°	3933.6	3933.6	3933.6	3933.6	3933.6	3933.6	3933.6	3933.6	3933.6	3933.6	3933.6
2.5°	3942.6	3937.0	3938.1	3909.0	3890.0	3852.0	3812.8	3794.9	3775.9	3768.0	3775.9
5°	3962.7	3952.6	3923.6	3834.1	3739.0	3615.9	3500.7	3413.4	3303.8	3273.5	3304.9
7.5°	3994.0	3973.9	3888.9	3706.5	3495.1	3260.1	2996.1	2803.7	2645.9	2544.1	2581.0
10°	4039.9	4001.9	3830.7	3520.8	3142.6	2726.5	2351.7	2059.7	1852.7	1767.7	1764.3
12.5°	4117.1	4045.5	3759.1	3279.1	2711.9	2157.0	1665.9	1349.2	1181.4	1072.9	1070.7
15°	4202.1	4097.0	3668.5	2989.4	2210.7	1545.0	1072.9	832.4	723.8	689.2	684.7
17.5°	4306.2	4156.3	3551.0	2632.5	1686.0	1023.7	700.4	631.0	626.5	623.2	623.2
20°	4437.1	4226.7	3400.0	2224.1	1196.0	683.6	595.2	599.7	601.9	597.4	598.5
22.5°	4589.2	4298.3	3219.8	1785.6	808.9	571.7	569.5	575.1	577.3	575.1	576.2
25°	4766.0	4381.1	3000.6	1325.8	584.0	542.6	548.2	556.0	561.6	561.6	561.6
27.5°	4985.3	4481.8	2736.5	925.2	504.6	512.4	528.1	542.6	550.4	552.7	552.7
30°	5270.6	4607.1	2419.9	634.3	458.7	472.1	501.2	529.2	543.7	546.0	547.1
32.5°	5630.8	4748.1	2053.0	468.8	419.5	429.6	460.9	507.9	535.9	540.4	540.4
35°	6043.6	4911.4	1658.0	408.4	391.6	394.9	419.5	473.2	522.5	534.8	535.9
37.5°	6495.6	5072.5	1260.9	381.5	368.1	368.1	386.0	431.8	490.0	528.1	532.5
40°	6917.4	5169.9	883.8	360.2	346.8	346.8	362.5	396.0	450.9	507.9	520.2
42.5°	7306.7	5203.4	615.3	340.1	326.7	330.0	343.5	370.3	411.7	468.8	480.0
45°	7707.3	5197.8	448.6	316.6	306.5	316.6	326.7	346.8	377.0	409.5	411.7
47.5°	8009.3	5150.9	355.8	294.2	287.5	301.0	309.9	323.3	340.1	337.9	337.9
50°	8292.4	5036.7	286.4	264.0	268.5	284.2	288.6	293.1	294.2	273.0	270.7
52.5°	8507.2	4858.9	229.3	231.6	249.5	265.2	260.7	254.0	242.8	217.0	212.6
55°	8578.8	4516.5	180.1	191.3	221.5	241.7	224.9	210.3	189.1	167.8	163.3
57.5°	8449.0	4074.6	146.6	148.8	186.8	203.6	184.6	167.8	144.3	126.4	123.1
60°	8173.8	3583.4	120.8	111.9	144.3	158.9	146.6	129.8	108.5	95.1	94.0
62.5°	7627.8	3059.9	99.6	87.3	109.6	121.9	114.1	101.8	83.9	75.0	73.8
65°	6480.0	2447.9	80.6	70.5	85.0	95.1	88.4	79.4	66.0	59.3	58.2
67.5°	4523.2	1654.7	66.0	58.2	67.1	75.0	69.4	64.9	52.6	51.5	52.6
70°	2181.6	797.7	54.8	47.0	52.6	58.2	55.9	52.6	50.3	58.2	67.1
72.5°	625.4	267.4	43.6	39.2	42.5	45.9	48.1	47.0	54.8	70.5	81.7
73°	481.1	215.9	41.4	36.9	40.3	44.8	47.0	45.9	55.9	71.6	81.7
75°	205.9	104.0	31.3	30.2	33.6	39.2	41.4	41.4	55.9	72.7	78.3
77.5°	92.9	55.9	20.1	23.5	29.1	31.3	34.7	34.7	44.8	55.9	55.9
80°	52.6	30.2	15.7	17.9	21.3	21.3	21.3	19.0	20.1	22.4	24.6
82.5°	33.6	20.1	12.3	14.5	13.4	11.2	9.0	9.0	7.8	9.0	11.2
85°	19.0	11.2	11.2	9.0	5.6	4.5	5.6	4.5	1.1	0.0	1.1
87.5°	11.2	6.7	3.4	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)