

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: P322420

Luminaire Tested: **GAN-SA6D-830-U-T3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322420
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-SA6D-830-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 1200mA 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: 26872 lumens
Efficiency: N/A
Efficacy: 70.3 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): 382
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



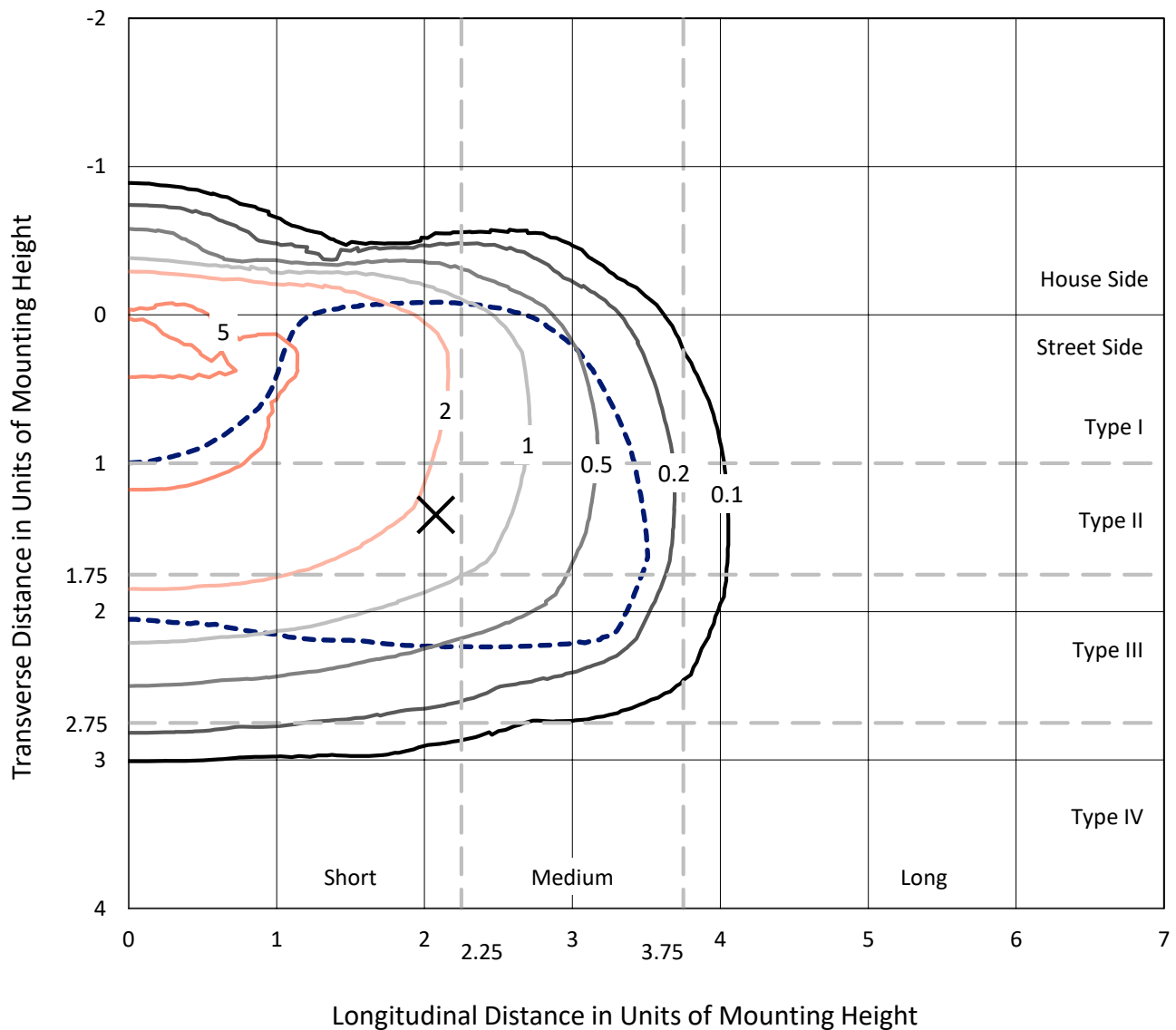
REPORT NUMBER: P322420

CATALOG NUMBER: GAN-SA6D-830-U-T3-HSS

Iso-Footcandle Lines of Horizontal Illumination

✗ Max cd

--- 1/2 Max cd

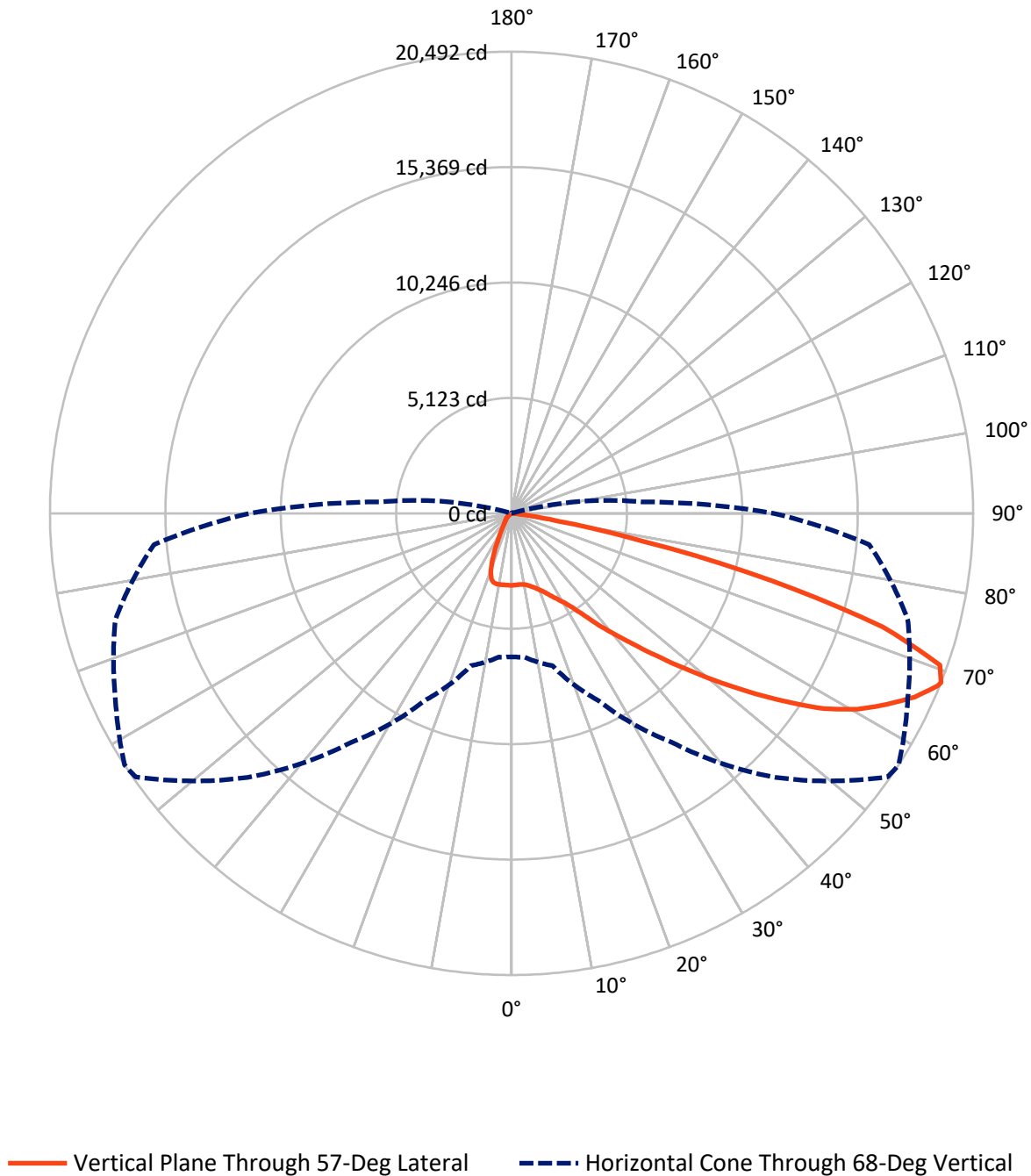


Based on 25 foot mounting height. Maximum calculated value = 6.6 fc

Type III - Short - N/A

REPORT NUMBER: P322420
CATALOG NUMBER: GAN-SA6D-830-U-T3-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P322420

CATALOG NUMBER: GAN-SA6D-830-U-T3-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2946.7	0.0	2946.7
	% Fixture	11.0	0.0	11.0
Street Side	Lumens	23925.3	0.0	23925.3
	% Fixture	89.0	0.0	89.0
Total	Lumens	26872.0	0.0	26872.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	298.8	1.1
10°-20°	828.1	3.1
20°-30°	1428.5	5.3
30°-40°	2465.5	9.2
40°-50°	4217.3	15.7
50°-60°	6747.3	25.1
60°-70°	7795.8	29.0
70°-80°	2978.9	11.1
80°-90°	111.7	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°	26872.0	100.0
0°-180°	26872.0	100.0

Coefficient of Utilization



REPORT NUMBER: P322420

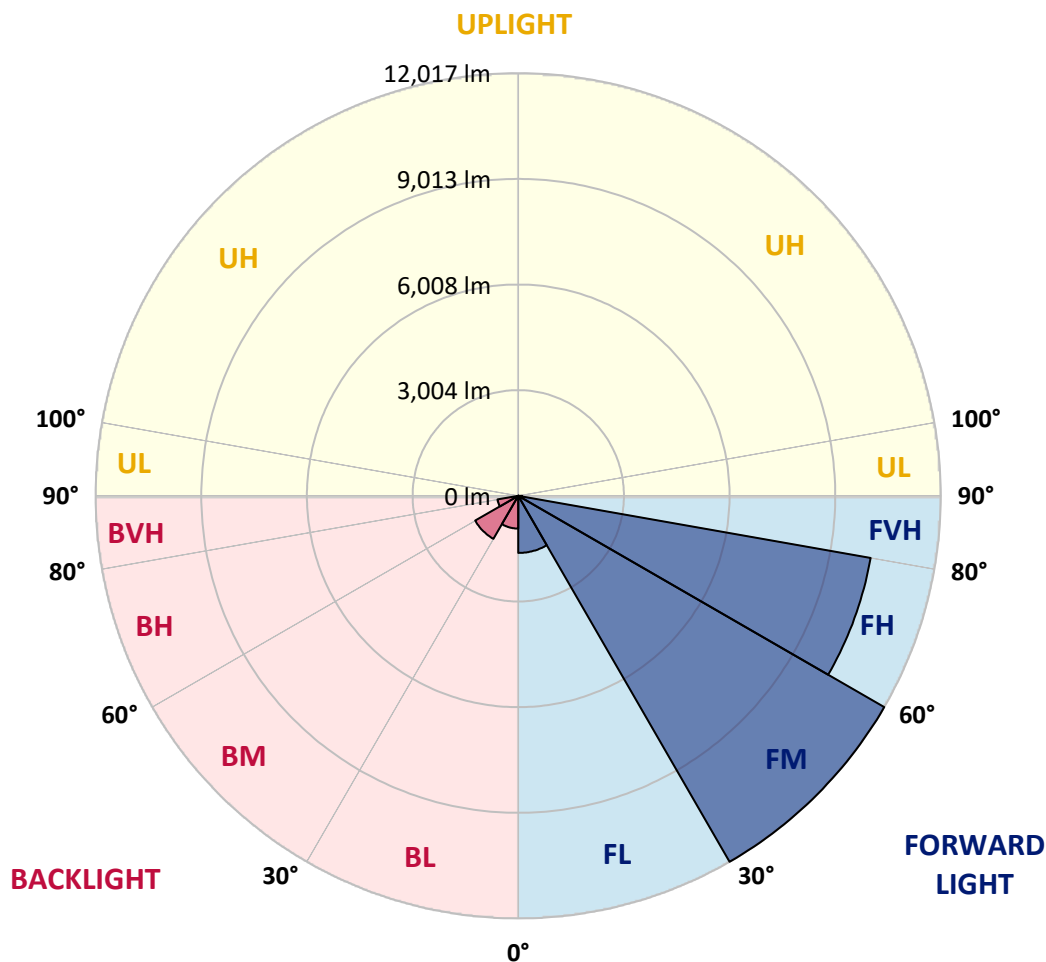
CATALOG NUMBER: GAN-SA6D-830-U-T3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1624.2	6.0			
FM	(30°-60°)	12016.9	44.7			
FH	(60°-80°)	10174.6	37.9			G4/12000
FVH	(80°-90°)	109.6	0.4			G2/225
BL	(0°-30°)	931.2	3.5	B2/1000		
BM	(30°-60°)	1413.3	5.3	B2/2500		
BH	(60°-80°)	600.1	2.2	B2/1000		G2/1000
BVH	(80°-90°)	2.0	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





REPORT NUMBER: P322420

CATALOG NUMBER: GAN-SA6D-830-U-T3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	3193.1	3193.1	3193.1	3193.1	3193.1	3193.1	3193.1	3193.1	3193.1	3193.1	3193.1
2.5°	3118.1	3132.1	3142.3	3148.6	3156.3	3172.8	3177.9	3185.5	3189.3	3189.3	3198.2
5°	2994.9	3010.1	3031.7	3049.5	3085.1	3130.8	3163.9	3176.6	3199.5	3219.8	3231.2
7.5°	2880.5	2898.3	2923.7	2965.7	3026.6	3100.3	3169.0	3186.7	3231.2	3274.4	3296.0
10°	2806.8	2820.8	2853.8	2913.6	2993.6	3096.5	3193.1	3214.7	3290.9	3363.4	3404.0
12.5°	2781.4	2794.1	2828.4	2895.8	2994.9	3115.6	3249.0	3280.8	3392.6	3498.1	3555.2
15°	2818.3	2820.8	2857.7	2921.2	3019.0	3162.6	3341.8	3379.9	3520.9	3658.2	3729.3
17.5°	2960.6	2949.1	2968.2	2996.2	3073.7	3224.9	3439.6	3496.8	3684.8	3846.2	3913.6
20°	3316.4	3316.4	3273.2	3196.9	3198.2	3321.4	3571.8	3636.6	3866.5	4053.3	4114.3
22.5°	3925.0	3913.6	3827.1	3640.4	3468.8	3487.9	3733.1	3817.0	4085.1	4284.6	4304.9
25°	4656.9	4642.9	4509.5	4246.5	3949.1	3757.3	3951.7	4048.2	4345.6	4522.2	4480.3
27.5°	5432.0	5420.5	5288.4	4961.8	4538.7	4186.7	4212.2	4303.6	4611.1	4785.2	4651.8
30°	6182.9	6186.7	6055.8	5720.4	5241.4	4734.4	4542.5	4595.9	4869.1	5045.7	4855.1
32.5°	6897.0	6902.1	6789.0	6414.2	5966.9	5371.0	4999.9	4986.0	5168.9	5343.0	5124.5
35°	7533.6	7546.3	7468.8	7177.8	6703.9	6080.0	5593.3	5560.3	5594.6	5791.5	5537.4
37.5°	8147.3	8154.9	8096.5	7851.2	7454.8	6858.9	6343.0	6296.0	6222.3	6373.5	6082.5
40°	8819.5	8800.4	8733.1	8510.7	8170.2	7719.1	7148.6	7067.3	6938.9	7073.6	6799.2
42.5°	9444.6	9423.0	9434.5	9182.9	8895.7	8603.5	8087.6	7947.8	7872.8	8027.9	7678.4
45°	10226.1	10214.6	10252.7	10034.2	9801.7	9589.5	9163.8	9011.3	8978.3	9160.0	8742.0
47.5°	10997.3	11025.3	11143.5	11050.7	10956.7	10769.9	10303.6	10235.0	10255.3	10475.1	9863.9
50°	11640.3	11673.3	11997.3	12104.1	12240.0	12130.7	11663.1	11621.2	11701.3	11899.5	11071.0
52.5°	12105.3	12172.7	12575.5	13067.2	13562.7	13636.4	13170.1	13132.0	13240.0	13270.5	12003.7
55°	12428.1	12487.8	12943.9	13843.6	14852.4	15170.1	14880.4	14733.0	14712.7	14411.5	12984.6
57.5°	12485.2	12478.9	13134.5	14345.5	15863.9	16683.4	16500.4	16355.6	15938.8	15466.2	14109.1
60°	12162.5	12199.4	12960.5	14519.5	16499.2	17828.3	17842.2	17654.2	17004.9	16491.6	15199.3
62.5°	11168.9	11318.8	12087.5	14063.4	16491.6	18289.5	18825.7	18682.1	17905.8	17331.4	16304.8
65°	9557.7	9611.1	10344.2	12500.5	15377.2	18096.4	19711.3	19658.0	18717.7	18147.2	16872.7
67.5°	6979.6	6864.0	7634.0	9843.6	13018.9	16970.6	20346.7	20414.0	19344.1	18314.9	16267.9
68°	6369.7	6404.0	7003.7	9186.7	12401.4	16572.9	20388.6	20491.5	19406.4	18205.6	15937.6
70°	3796.7	3862.7	4397.7	6325.2	9434.5	14322.6	19936.2	20171.3	19035.4	17078.6	13785.1
72.5°	969.5	1048.3	1554.0	2831.0	5388.8	10091.4	16829.5	17227.2	16527.1	13855.0	9306.1
75°	399.0	419.3	555.3	932.6	2007.6	4546.3	11092.6	11944.0	11457.3	8294.7	4205.8
77.5°	275.7	289.7	357.0	517.1	869.1	1541.3	5438.3	6053.3	5453.6	2831.0	917.4
80°	198.2	209.7	255.4	344.3	499.4	550.2	1772.5	2049.5	1627.7	621.3	227.4
82.5°	118.2	127.1	190.6	245.2	303.7	263.0	440.9	500.6	471.4	308.8	101.7
85°	58.4	68.6	128.3	175.3	163.9	110.5	134.7	149.9	185.5	188.1	54.6
87.5°	3.8	7.6	75.0	105.5	45.7	25.4	39.4	48.3	66.1	92.8	22.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P322420

CATALOG NUMBER: GAN-SA6D-830-U-T3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3193.1	3193.1	3193.1	3193.1	3193.1	3193.1	3193.1	3193.1	3193.1	3193.1	3193.1
2.5°	3202.0	3203.3	3194.4	3190.6	3193.1	3177.9	3171.5	3174.0	3174.0	3177.9	3171.5
5°	3233.8	3233.8	3218.5	3198.2	3186.7	3157.5	3138.5	3133.4	3129.6	3127.0	3121.9
7.5°	3302.4	3294.8	3268.1	3223.6	3185.5	3121.9	3073.7	3048.2	3035.5	3030.5	3026.6
10°	3412.9	3398.9	3354.5	3271.9	3184.2	3071.1	2965.7	2890.7	2828.4	2803.0	2787.8
12.5°	3561.6	3541.3	3466.3	3329.1	3175.3	2966.9	2738.2	2518.4	2313.8	2230.0	2188.0
15°	3733.1	3703.9	3585.7	3377.3	3123.2	2731.9	2235.0	1850.0	1566.7	1460.0	1414.2
17.5°	3907.2	3869.1	3689.9	3407.8	2966.9	2245.2	1568.0	1184.2	994.9	944.1	926.3
20°	4082.5	4026.6	3780.1	3385.0	2613.7	1618.8	1034.3	865.3	810.7	795.4	790.3
22.5°	4249.0	4162.6	3861.5	3296.0	2069.9	1086.4	818.3	764.9	747.1	738.2	735.7
25°	4393.9	4273.1	3932.6	3021.6	1465.0	820.8	737.0	719.2	696.3	679.8	681.1
27.5°	4529.8	4383.7	3975.8	2569.2	977.1	701.4	682.3	658.2	616.3	592.1	592.1
30°	4693.7	4531.1	4007.6	1977.1	719.2	620.1	604.8	568.0	510.8	479.0	479.0
32.5°	4940.2	4754.7	3987.2	1387.5	595.9	545.1	509.5	458.7	396.4	365.9	364.7
35°	5317.6	5100.3	3842.4	909.8	526.0	473.9	416.8	354.5	299.9	274.5	273.2
37.5°	5825.9	5562.8	3517.1	650.6	471.4	407.9	339.3	270.6	230.0	213.5	212.2
40°	6485.3	6100.3	3052.1	527.3	420.6	344.3	261.8	209.7	181.7	169.0	170.3
42.5°	7276.9	6675.9	2494.3	454.9	371.0	283.4	204.6	165.2	147.4	138.5	136.0
45°	8156.2	7243.9	1909.8	405.3	321.5	228.7	160.1	130.9	116.9	111.8	111.8
47.5°	9123.1	7796.6	1397.7	362.1	268.1	176.6	128.3	106.7	95.3	91.5	90.2
50°	10001.2	8180.3	1007.6	316.4	219.8	139.8	104.2	88.9	81.3	76.2	76.2
52.5°	10733.0	8301.0	742.0	266.8	177.9	111.8	86.4	76.2	68.6	64.8	64.8
55°	11377.3	8251.5	551.5	219.8	143.6	91.5	73.7	64.8	58.4	54.6	54.6
57.5°	11994.8	8091.4	411.7	179.2	115.6	73.7	62.3	54.6	48.3	45.7	45.7
60°	12499.2	7824.6	306.2	144.9	92.8	59.7	52.1	44.5	39.4	35.6	35.6
62.5°	12908.4	7529.8	224.9	119.4	73.7	47.0	40.7	36.8	29.2	25.4	25.4
65°	12910.9	7040.6	169.0	99.1	57.2	36.8	30.5	29.2	19.1	15.2	14.0
67.5°	11977.0	6069.8	129.6	85.1	44.5	28.0	22.9	24.1	10.2	6.4	5.1
68°	11637.7	5823.3	122.0	83.9	41.9	26.7	21.6	24.1	8.9	5.1	3.8
70°	9811.8	4632.7	97.8	81.3	36.8	20.3	17.8	24.1	7.6	3.8	2.5
72.5°	6275.7	2688.7	72.4	64.8	28.0	15.2	11.4	21.6	7.6	2.5	1.3
75°	2670.9	833.5	49.6	45.7	16.5	11.4	7.6	14.0	5.1	1.3	0.0
77.5°	562.9	188.1	29.2	28.0	11.4	7.6	5.1	3.8	1.3	0.0	0.0
80°	144.9	54.6	15.2	14.0	6.4	3.8	2.5	0.0	0.0	0.0	0.0
82.5°	45.7	21.6	8.9	6.4	2.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	22.9	12.7	5.1	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	12.7	3.8	1.3	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)