

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: P322740

Luminaire Tested: **GAN-SA6D-830-U-T4FT-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322740
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-SA6D-830-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 1200mA 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: 26188 lumens
Efficiency: N/A
Efficacy: 68.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

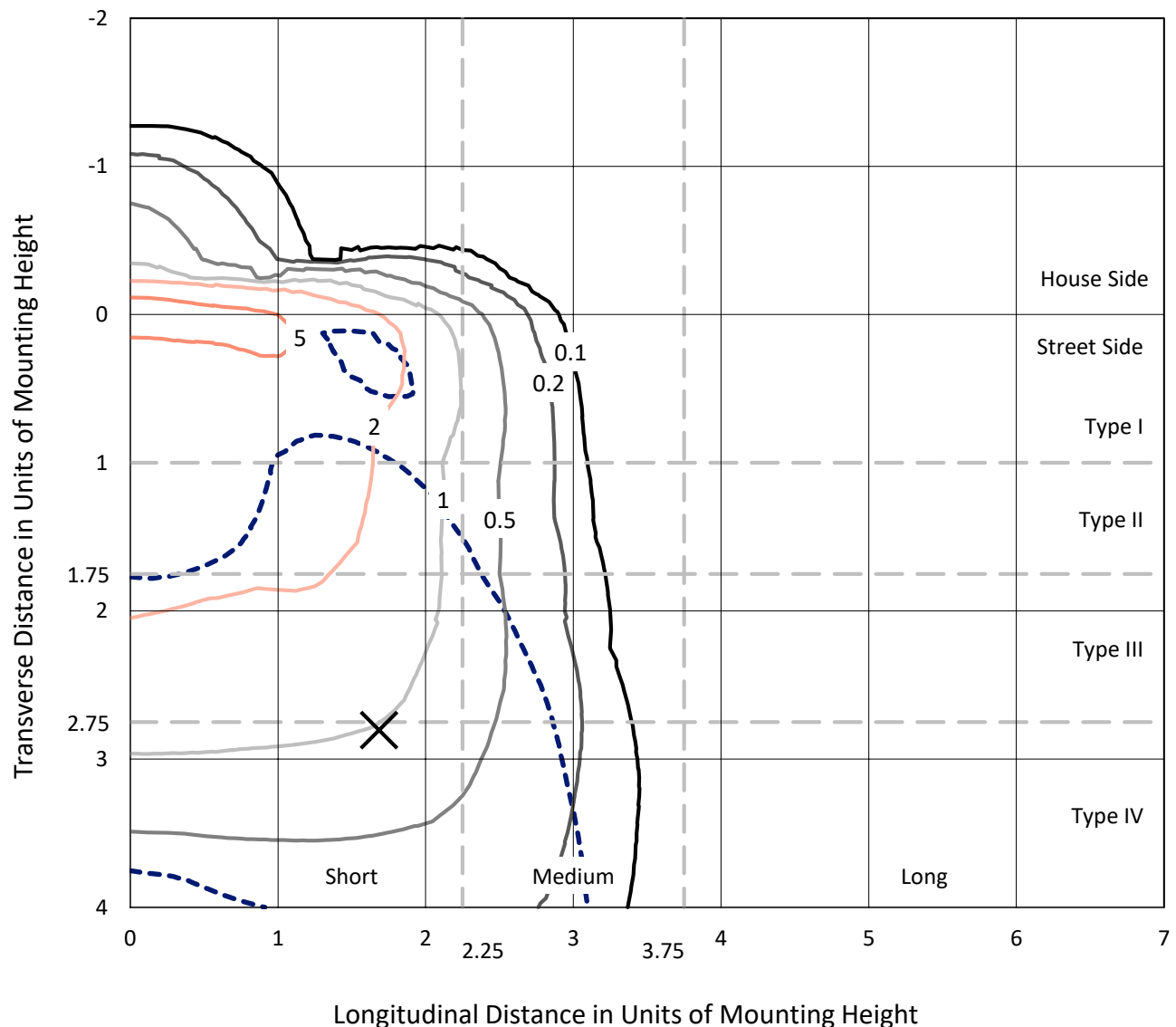
Input Watts (W): 382
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P322740
 CATALOG NUMBER: GAN-SA6D-830-U-T4FT-HSS

Iso-Footcandle Lines of Horizontal Illumination

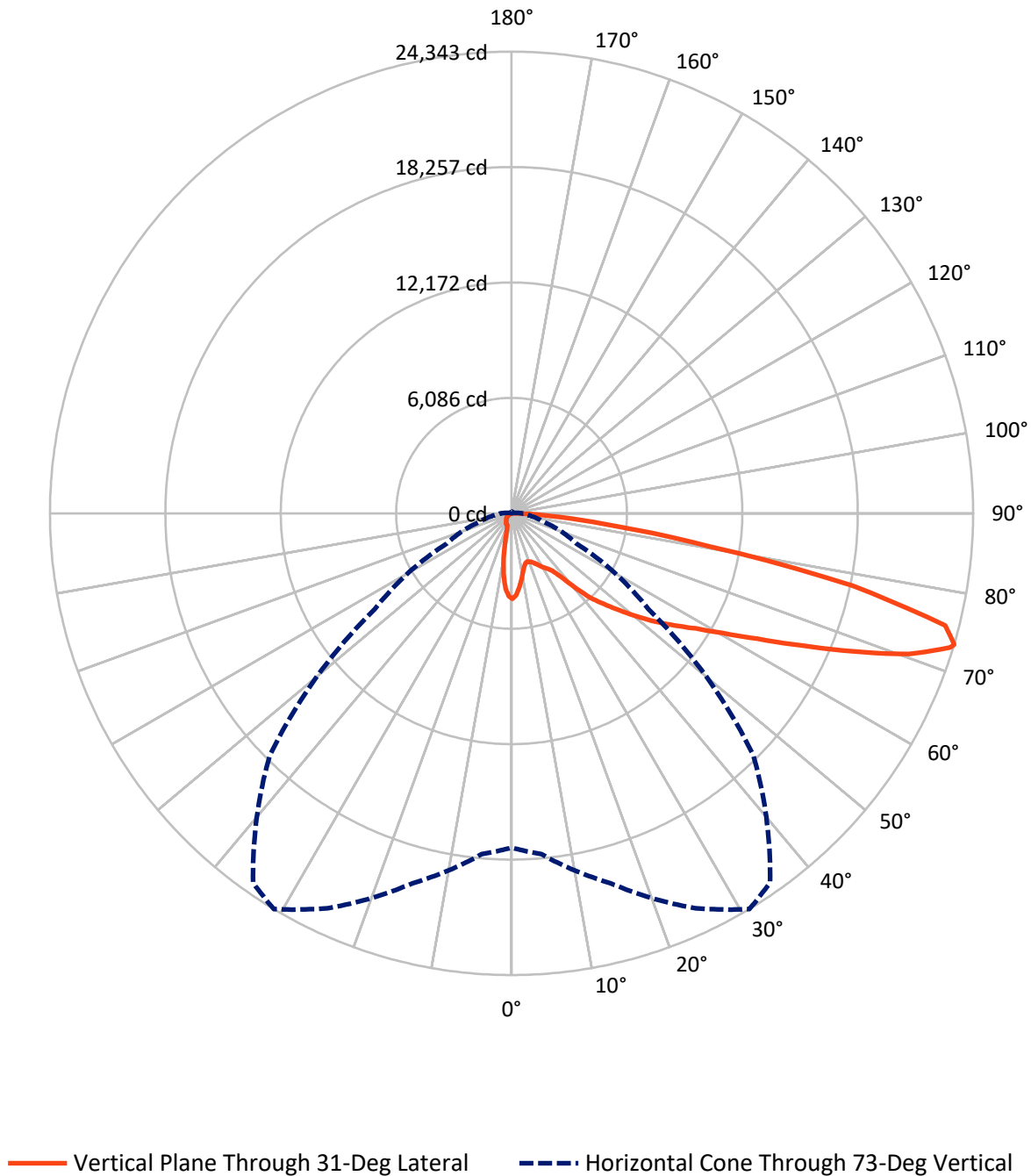
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 fc
 Type IV - Short - N/A

REPORT NUMBER: P322740
CATALOG NUMBER: GAN-SA6D-830-U-T4FT-HSS

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2387.1	0.0	2387.1
	% Fixture	9.1	0.0	9.1
Street Side	Lumens	23800.9	0.0	23800.9
	% Fixture	90.9	0.0	90.9
Total	Lumens	26188.0	0.0	26188.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	373.6	1.4
10°-20°	811.2	3.1
20°-30°	1215.4	4.6
30°-40°	1933.6	7.4
40°-50°	3452.9	13.2
50°-60°	5358.0	20.5
60°-70°	7122.7	27.2
70°-80°	5357.7	20.5
80°-90°	563.0	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°	26188.0	100.0
0°-180°	26188.0	100.0

Coefficient of Utilization



REPORT NUMBER: P322740

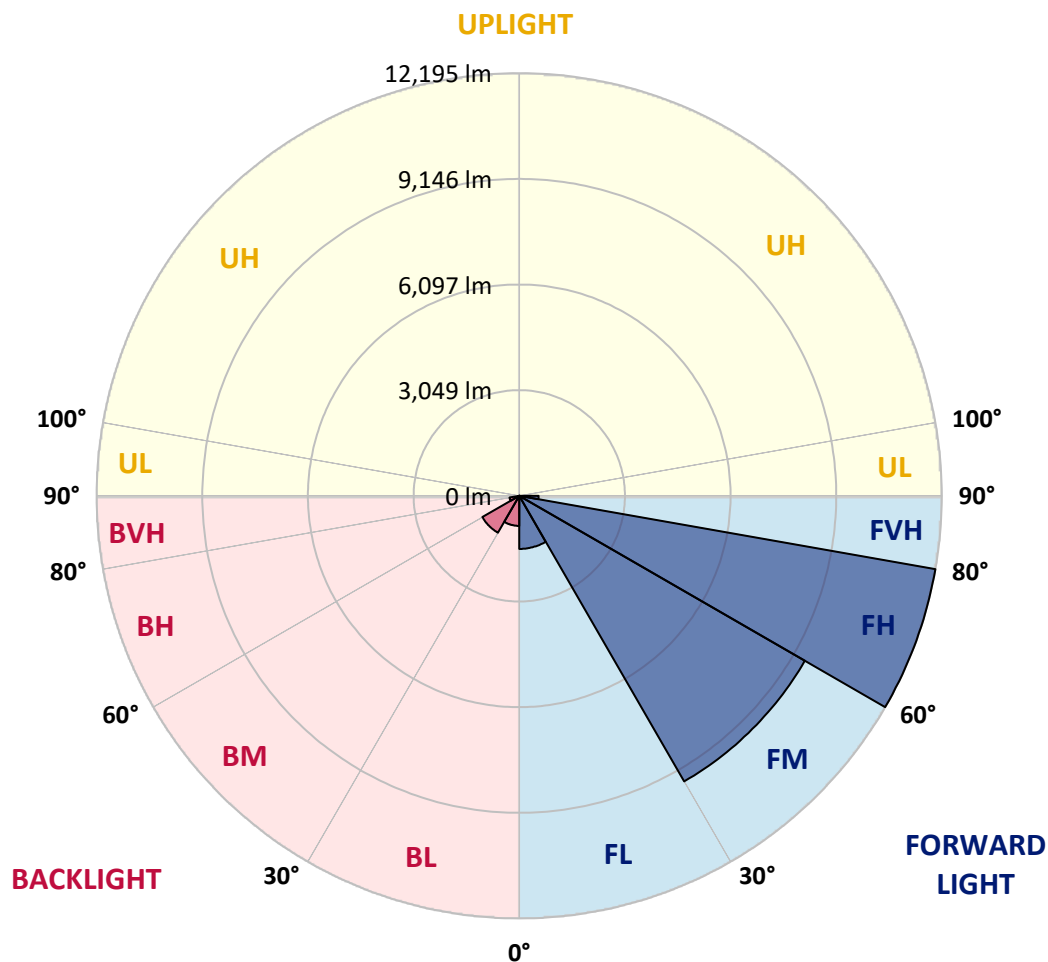
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1532.0	5.9			
FM	(30°-60°)	9515.8	36.3			
FH	(60°-80°)	12194.8	46.6			G5
FVH	(80°-90°)	558.2	2.1			G4/750
BL	(0°-30°)	868.1	3.3	B2/1000		
BM	(30°-60°)	1228.7	4.7	B2/2500		
BH	(60°-80°)	285.6	1.1	B1/500		G1/500
BVH	(80°-90°)	4.7	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-G5

Type IV Short





REPORT NUMBER: P322740

CATALOG NUMBER: GAN-SA6D-830-U-T4FT-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	31°	35°	45°	55°	65°	75°	85°
0°	4505.7	4505.7	4505.7	4505.7	4505.7	4505.7	4505.7	4505.7	4505.7	4505.7	4505.7
2.5°	4269.9	4287.8	4307.1	4310.9	4343.0	4344.2	4390.4	4425.0	4459.6	4492.9	4504.4
5°	3831.6	3861.1	3895.7	3930.3	3998.2	4025.1	4137.9	4253.2	4363.5	4468.5	4519.8
7.5°	3363.9	3397.2	3445.9	3531.8	3607.4	3659.9	3838.0	4043.1	4248.1	4441.6	4553.1
10°	2937.2	2967.9	3019.2	3110.2	3226.8	3298.5	3538.2	3822.7	4123.8	4417.3	4603.1
12.5°	2665.5	2682.1	2710.3	2807.7	2912.8	2993.5	3275.5	3627.9	4021.3	4416.0	4683.8
15°	2615.5	2620.6	2597.6	2641.1	2723.2	2801.3	3087.1	3470.3	3943.1	4436.5	4788.9
17.5°	2695.0	2692.4	2615.5	2610.4	2675.7	2739.8	2994.8	3361.3	3888.0	4483.9	4924.7
20°	2815.4	2806.5	2673.2	2648.8	2718.0	2778.3	2988.4	3320.3	3867.5	4563.4	5090.1
22.5°	2975.6	2960.2	2751.3	2725.7	2800.0	2862.8	3067.9	3360.1	3885.5	4669.7	5282.3
25°	3174.2	3151.2	2885.9	2857.7	2933.3	2996.1	3210.1	3474.1	3939.3	4799.2	5525.8
27.5°	3398.5	3365.2	3101.2	3028.1	3114.0	3179.4	3399.8	3648.4	4023.9	4936.3	5824.3
30°	3609.9	3566.4	3328.0	3207.6	3312.6	3385.7	3604.8	3856.0	4159.7	5147.7	6233.1
32.5°	3822.7	3774.0	3530.5	3387.0	3481.8	3561.2	3816.3	4141.8	4414.7	5470.7	6776.5
35°	4312.2	4260.9	3962.3	3725.3	3724.0	3768.8	4112.3	4532.6	4751.7	5920.5	7424.9
37.5°	5136.2	5106.7	4822.2	4372.4	4252.0	4202.0	4516.0	4999.1	5236.1	6539.4	8156.6
40°	6038.4	6012.7	5693.6	5286.1	5102.9	4979.8	5095.2	5648.8	5920.5	7295.5	8903.8
42.5°	7057.1	6935.4	6366.4	6244.7	6080.6	5987.1	5883.3	6449.7	6761.1	8118.2	9644.5
45°	7982.4	7777.3	7039.2	6854.7	6817.5	6840.6	6898.2	7526.2	7706.8	9096.0	10382.6
47.5°	8533.4	8371.9	7805.5	7628.7	7618.4	7770.9	8206.6	8742.3	8648.7	9948.2	11032.3
50°	9057.5	8911.4	8441.1	8484.7	8532.1	8739.7	9691.9	9993.0	9508.6	10720.9	11628.2
52.5°	9481.7	9258.7	9012.7	9257.4	9490.7	9825.1	11224.5	11115.6	10118.6	11336.0	12138.2
55°	9726.5	9625.2	9744.4	9990.5	10428.7	10972.1	12671.3	12049.8	10564.6	11897.3	12477.8
57.5°	10623.5	10424.9	10661.9	10874.7	11446.2	12206.1	13910.5	12745.6	10886.2	12244.6	12556.0
60°	11708.9	11548.7	11688.4	12042.1	12813.6	13706.8	15069.0	13313.3	11054.1	12467.6	12353.5
62.5°	13436.4	13224.9	13137.8	13533.8	14556.4	15531.6	15948.1	13706.8	11016.9	12368.9	11658.9
65°	15750.7	15531.6	15142.0	15500.8	16801.5	17489.7	16931.0	13790.1	10760.6	11570.5	9903.3
67.5°	18121.5	17962.6	17629.4	18234.2	19408.1	19629.8	17970.3	13587.6	9935.3	9381.7	6996.9
70°	19687.4	19619.5	19836.1	21174.0	22220.9	22156.9	18923.7	12499.6	7744.0	5769.2	3461.3
72.5°	18558.5	18884.0	20483.2	22909.1	24188.0	23665.2	18434.2	9598.3	4426.2	2219.5	1000.8
73°	17623.0	18039.5	20192.3	22974.5	24343.1	23770.3	18022.8	8810.2	3772.7	1751.8	758.6
75°	12260.0	12771.3	16717.0	21396.9	23617.8	22647.7	15022.8	5392.5	1747.9	776.6	306.3
77.5°	5952.5	6330.5	9204.9	15459.8	18367.5	17694.7	9352.3	2009.4	789.4	485.7	141.0
80°	2222.1	2470.7	3995.7	7868.3	10614.5	10892.6	4113.6	759.9	525.4	390.9	71.8
82.5°	581.8	648.4	1473.7	3508.7	5439.9	5693.6	1296.9	383.2	384.4	321.7	43.6
85°	185.8	212.7	460.1	1574.9	2563.0	2250.3	338.3	185.8	279.4	239.6	24.3
87.5°	23.1	29.5	146.1	370.3	565.1	314.0	52.5	55.1	119.2	133.3	14.1
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: P322740

CATALOG NUMBER: GAN-SA6D-830-U-T4FT-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4505.7	4505.7	4505.7	4505.7	4505.7	4505.7	4505.7	4505.7	4505.7	4505.7	4505.7
2.5°	4516.0	4509.5	4510.8	4477.5	4455.7	4412.2	4367.3	4346.8	4325.0	4316.0	4325.0
5°	4539.0	4527.5	4494.2	4391.6	4282.7	4141.8	4009.8	3909.8	3784.2	3749.6	3785.5
7.5°	4574.9	4551.8	4454.4	4245.6	4003.4	3734.2	3431.8	3211.4	3030.7	2914.1	2956.4
10°	4627.4	4583.9	4387.8	4032.8	3599.7	3123.0	2693.7	2359.2	2122.1	2024.7	2020.9
12.5°	4715.9	4633.8	4305.8	3756.0	3106.3	2470.7	1908.1	1545.5	1353.2	1228.9	1226.4
15°	4813.3	4692.8	4202.0	3424.1	2532.2	1769.7	1228.9	953.4	829.1	789.4	784.3
17.5°	4932.4	4760.7	4067.4	3015.3	1931.2	1172.6	802.2	722.8	717.6	713.8	713.8
20°	5082.4	4841.4	3894.4	2547.6	1369.9	783.0	681.7	686.9	689.4	684.3	685.6
22.5°	5256.6	4923.5	3688.1	2045.2	926.5	654.8	652.3	658.7	661.2	658.7	660.0
25°	5459.1	5018.3	3436.9	1518.6	668.9	621.5	627.9	636.9	643.3	643.3	643.3
27.5°	5710.3	5133.6	3134.5	1059.8	577.9	586.9	604.9	621.5	630.5	633.1	633.1
30°	6037.1	5277.2	2771.9	726.6	525.4	540.8	574.1	606.1	622.8	625.4	626.6
32.5°	6449.7	5438.6	2351.5	536.9	480.6	492.1	528.0	581.8	613.8	619.0	619.0
35°	6922.6	5625.7	1899.2	467.7	448.5	452.4	480.6	542.1	598.5	612.5	613.8
37.5°	7440.3	5810.3	1444.2	437.0	421.6	421.6	442.1	494.7	561.3	604.9	610.0
40°	7923.4	5921.7	1012.4	412.6	397.3	397.3	415.2	453.6	516.4	581.8	595.9
42.5°	8369.4	5960.2	704.8	389.6	374.2	378.0	393.4	424.2	471.6	536.9	549.8
45°	8828.1	5953.8	513.9	362.7	351.1	362.7	374.2	397.3	431.9	469.0	471.6
47.5°	9174.1	5900.0	407.5	337.0	329.3	344.7	355.0	370.3	389.6	387.0	387.0
50°	9498.4	5769.2	328.1	302.4	307.6	325.5	330.6	335.7	337.0	312.7	310.1
52.5°	9744.4	5565.5	262.7	265.3	285.8	303.7	298.6	290.9	278.1	248.6	243.5
55°	9826.4	5173.4	206.3	219.1	253.7	276.8	257.6	240.9	216.6	192.2	187.1
57.5°	9677.8	4667.2	167.9	170.4	214.0	233.2	211.4	192.2	165.3	144.8	141.0
60°	9362.5	4104.6	138.4	128.1	165.3	182.0	167.9	148.7	124.3	108.9	107.6
62.5°	8737.2	3504.9	114.1	100.0	125.6	139.7	130.7	116.6	96.1	85.9	84.6
65°	7422.4	2803.9	92.3	80.7	97.4	108.9	101.2	91.0	75.6	67.9	66.6
67.5°	5181.0	1895.3	75.6	66.6	76.9	85.9	79.5	74.3	60.2	58.9	60.2
70°	2498.9	913.7	62.8	53.8	60.2	66.6	64.1	60.2	57.7	66.6	76.9
72.5°	716.3	306.3	50.0	44.9	48.7	52.5	55.1	53.8	62.8	80.7	93.5
73°	551.0	247.3	47.4	42.3	46.1	51.3	53.8	52.5	64.1	82.0	93.5
75°	235.8	119.2	35.9	34.6	38.4	44.9	47.4	47.4	64.1	83.3	89.7
77.5°	106.4	64.1	23.1	26.9	33.3	35.9	39.7	39.7	51.3	64.1	64.1
80°	60.2	34.6	17.9	20.5	24.3	24.3	24.3	21.8	23.1	25.6	28.2
82.5°	38.4	23.1	14.1	16.7	15.4	12.8	10.3	10.3	9.0	10.3	12.8
85°	21.8	12.8	12.8	10.3	6.4	5.1	6.4	5.1	1.3	0.0	1.3
87.5°	12.8	7.7	3.8	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)