

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: P322402

Luminaire Tested: **GAN-SA8B-830-U-T3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322402
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-SA8B-830-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 800mA 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: 26521 lumens
Efficiency: N/A
Efficacy: 79.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 334
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

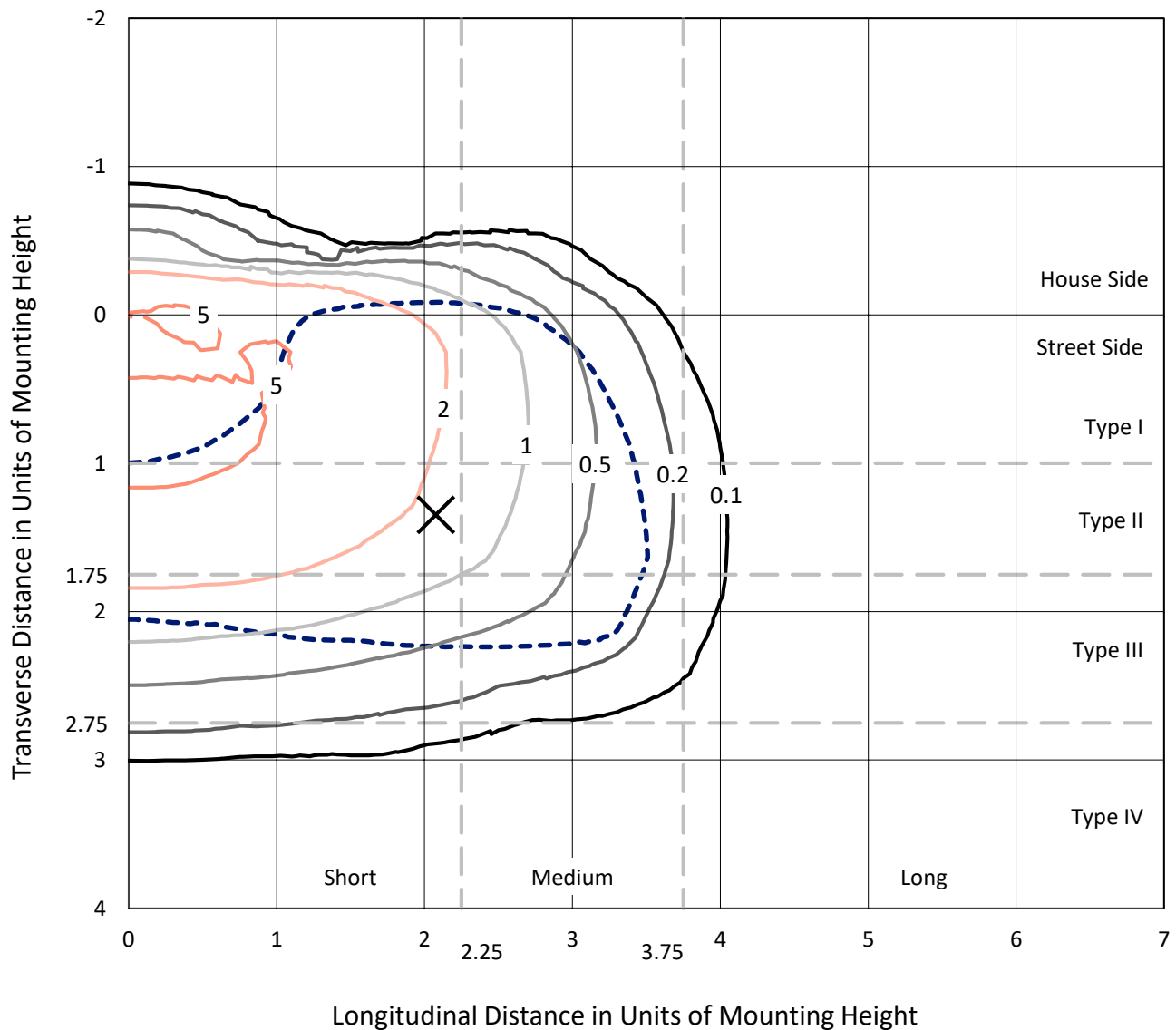


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Iso-Footcandle Lines of Horizontal Illumination

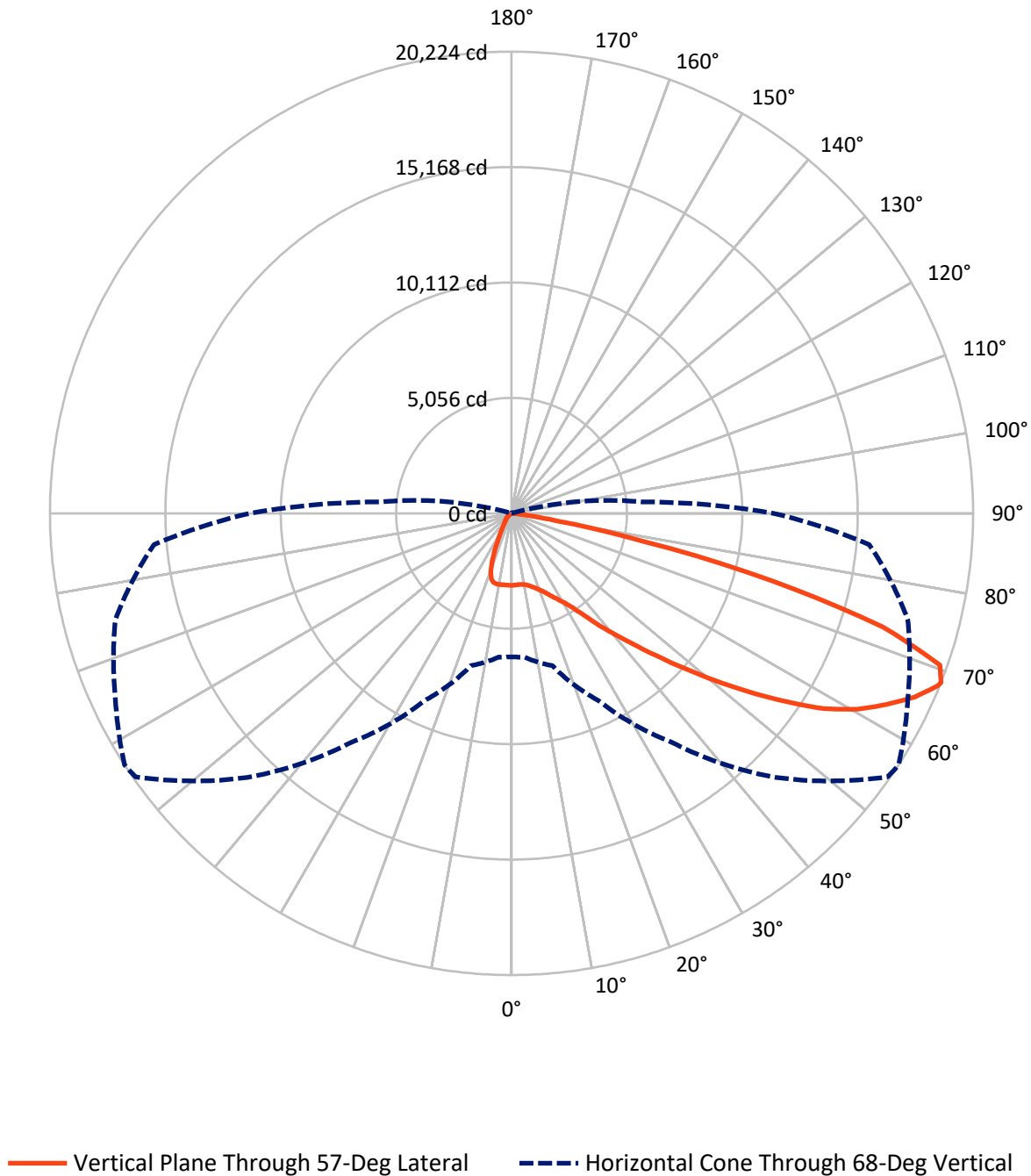
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 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	2908.2	0.0	2908.2
	% Fixture	11.0	0.0	11.0
Street Side	Lumens	23612.8	0.0	23612.8
	% Fixture	89.0	0.0	89.0
Total	Lumens	26521.0	0.0	26521.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	294.9	1.1
10°-20°	817.3	3.1
20°-30°	1409.8	5.3
30°-40°	2433.3	9.2
40°-50°	4162.3	15.7
50°-60°	6659.2	25.1
60°-70°	7694.0	29.0
70°-80°	2940.0	11.1
80°-90°	110.2	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°	26521.0	100.0
0°-180°	26521.0	100.0

Coefficient of Utilization



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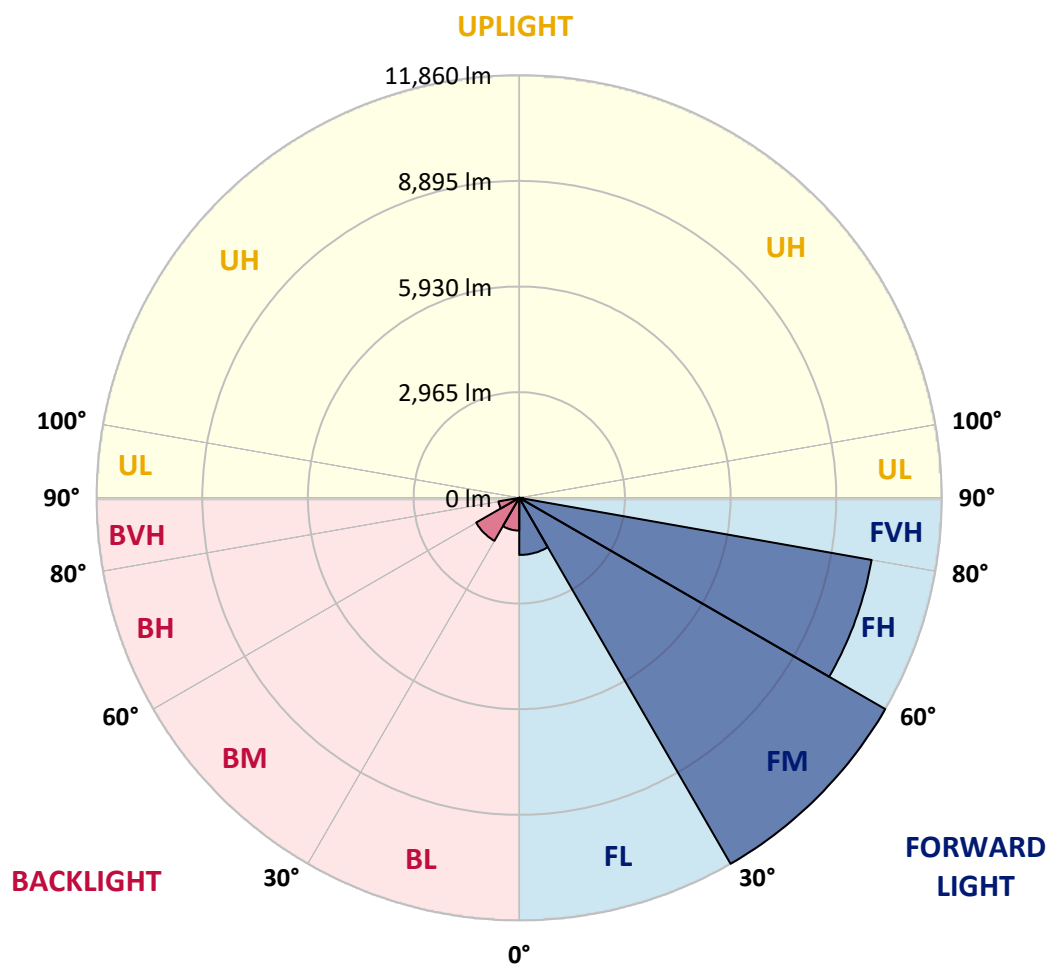
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1602.9	6.0			
FM	(30°-60°)	11860.0	44.7			
FH	(60°-80°)	10041.7	37.9			G4/12000
FVH	(80°-90°)	108.2	0.4			G2/225
BL	(0°-30°)	919.1	3.5	B2/1000		
BM	(30°-60°)	1394.8	5.3	B2/2500		
BH	(60°-80°)	592.3	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	3151.4	3151.4	3151.4	3151.4	3151.4	3151.4	3151.4	3151.4	3151.4	3151.4	3151.4
2.5°	3077.4	3091.2	3101.2	3107.5	3115.0	3131.3	3136.3	3143.9	3147.6	3147.6	3156.4
5°	2955.8	2970.8	2992.1	3009.7	3044.8	3089.9	3122.6	3135.1	3157.7	3177.7	3189.0
7.5°	2842.9	2860.5	2885.5	2926.9	2987.1	3059.8	3127.6	3145.1	3189.0	3231.7	3253.0
10°	2770.2	2784.0	2816.6	2875.5	2954.5	3056.1	3151.4	3172.7	3248.0	3319.4	3359.6
12.5°	2745.1	2757.6	2791.5	2857.9	2955.8	3074.9	3206.6	3237.9	3348.3	3452.4	3508.8
15°	2781.5	2784.0	2820.3	2883.0	2979.6	3121.3	3298.1	3335.7	3474.9	3610.4	3680.6
17.5°	2921.9	2910.6	2929.4	2957.0	3033.5	3182.7	3394.7	3451.1	3636.7	3796.0	3862.4
20°	3273.0	3273.0	3230.4	3155.2	3156.4	3278.1	3525.1	3589.1	3816.0	4000.4	4060.6
22.5°	3873.7	3862.4	3777.2	3592.8	3423.5	3442.3	3684.4	3767.1	4031.7	4228.6	4248.7
25°	4596.0	4582.2	4450.6	4191.0	3897.5	3708.2	3900.1	3995.4	4288.8	4463.1	4421.7
27.5°	5361.0	5349.7	5219.3	4897.0	4479.4	4132.1	4157.1	4247.4	4550.9	4722.7	4591.0
30°	6102.1	6105.9	5976.7	5645.7	5172.9	4672.5	4483.2	4535.9	4805.5	4979.8	4791.7
32.5°	6806.9	6811.9	6700.3	6330.4	5889.0	5300.8	4934.6	4920.8	5101.4	5273.2	5057.5
35°	7435.2	7447.7	7371.2	7084.1	6616.3	6000.6	5520.3	5487.7	5521.5	5715.9	5465.1
37.5°	8040.9	8048.4	7990.7	7748.7	7357.4	6769.3	6260.2	6213.8	6141.0	6290.2	6003.1
40°	8704.3	8685.5	8619.0	8399.5	8063.5	7618.3	7055.2	6975.0	6848.3	6981.2	6710.3
42.5°	9321.3	9299.9	9311.2	9062.9	8779.5	8491.1	7981.9	7844.0	7770.0	7923.0	7578.1
45°	10092.5	10081.2	10118.8	9903.1	9673.6	9464.2	9044.1	8893.6	8861.0	9040.3	8627.8
47.5°	10853.7	10881.3	10997.9	10906.4	10813.6	10629.2	10169.0	10101.3	10121.3	10338.3	9735.1
50°	11488.2	11520.8	11840.6	11946.0	12080.1	11972.3	11510.8	11469.4	11548.4	11744.1	10926.4
52.5°	11947.2	12013.7	12411.2	12896.5	13385.6	13458.3	12998.1	12960.5	13067.1	13097.2	11846.9
55°	12265.7	12324.7	12774.9	13662.7	14658.4	14971.9	14686.0	14540.6	14520.5	14223.3	12815.0
57.5°	12322.2	12315.9	12963.0	14158.1	15656.6	16465.5	16284.9	16142.0	15730.6	15264.1	13924.8
60°	12003.6	12040.0	12791.2	14329.9	16283.7	17595.4	17609.2	17423.6	16782.8	16276.1	15000.8
62.5°	11023.0	11171.0	11929.7	13879.7	16276.1	18050.6	18579.8	18438.1	17671.9	17105.1	16091.8
65°	9432.9	9485.5	10209.1	12337.2	15176.4	17860.0	19453.9	19401.2	18473.2	17910.2	16652.4
67.5°	6888.4	6774.3	7534.3	9715.0	12848.9	16748.9	20080.9	20147.4	19091.5	18075.7	16055.4
68°	6286.5	6320.3	6912.2	9066.7	12239.4	16356.4	20122.3	20223.8	19152.9	17967.8	15729.4
70°	3747.1	3812.3	4340.2	6242.6	9311.2	14135.5	19675.8	19907.8	18786.7	16855.5	13605.0
72.5°	956.8	1034.6	1533.7	2794.0	5318.4	9959.6	16609.7	17002.2	16311.3	13674.0	9184.6
75°	393.8	413.8	548.0	920.5	1981.4	4486.9	10947.7	11787.9	11307.6	8186.4	4150.9
77.5°	272.1	285.9	352.4	510.4	857.8	1521.1	5367.3	5974.2	5382.3	2794.0	905.4
80°	195.6	206.9	252.1	339.8	492.8	543.0	1749.4	2022.8	1606.4	613.2	224.5
82.5°	116.6	125.4	188.1	242.0	299.7	259.6	435.2	494.1	465.2	304.7	100.3
85°	57.7	67.7	126.7	173.1	161.8	109.1	132.9	148.0	183.1	185.6	53.9
87.5°	3.8	7.5	74.0	104.1	45.1	25.1	38.9	47.7	65.2	91.5	22.6
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°	3151.4	3151.4	3151.4	3151.4	3151.4	3151.4	3151.4	3151.4	3151.4	3151.4	3151.4
2.5°	3160.2	3161.4	3152.6	3148.9	3151.4	3136.3	3130.1	3132.6	3132.6	3136.3	3130.1
5°	3191.5	3191.5	3176.5	3156.4	3145.1	3116.3	3097.5	3092.5	3088.7	3086.2	3081.2
7.5°	3259.2	3251.7	3225.4	3181.5	3143.9	3081.2	3033.5	3008.4	2995.9	2990.9	2987.1
10°	3368.3	3354.5	3310.7	3229.1	3142.6	3031.0	2926.9	2852.9	2791.5	2766.4	2751.4
12.5°	3515.1	3495.0	3421.0	3285.6	3133.8	2928.2	2702.4	2485.5	2283.6	2200.8	2159.5
15°	3684.4	3655.5	3538.9	3333.2	3082.4	2696.2	2205.9	1825.9	1546.2	1440.9	1395.7
17.5°	3856.2	3818.5	3641.7	3363.3	2928.2	2215.9	1547.5	1168.8	981.9	931.7	914.2
20°	4029.2	3974.0	3730.8	3340.8	2579.6	1597.6	1020.8	854.0	800.1	785.0	780.0
22.5°	4193.5	4108.2	3811.0	3253.0	2042.8	1072.2	807.6	754.9	737.4	728.6	726.1
25°	4336.5	4217.3	3881.2	2982.1	1445.9	810.1	727.3	709.8	687.2	670.9	672.2
27.5°	4470.6	4326.4	3923.9	2535.7	964.4	692.2	673.4	649.6	608.2	584.4	584.4
30°	4632.4	4471.9	3955.2	1951.3	709.8	612.0	596.9	560.6	504.1	472.8	472.8
32.5°	4875.7	4692.6	3935.2	1369.4	588.1	538.0	502.9	452.7	391.3	361.2	359.9
35°	5248.1	5033.7	3792.2	897.9	519.2	467.8	411.3	349.9	296.0	270.9	269.6
37.5°	5749.8	5490.2	3471.2	642.1	465.2	402.5	334.8	267.1	227.0	210.7	209.4
40°	6400.6	6020.6	3012.2	520.4	415.1	339.8	258.3	206.9	179.3	166.8	168.0
42.5°	7181.9	6588.7	2461.7	448.9	366.2	279.7	201.9	163.0	145.5	136.7	134.2
45°	8049.7	7149.3	1884.8	400.0	317.3	225.7	158.0	129.2	115.4	110.4	110.4
47.5°	9004.0	7694.8	1379.4	357.4	264.6	174.3	126.7	105.3	94.1	90.3	89.0
50°	9870.5	8073.5	994.5	312.3	216.9	137.9	102.8	87.8	80.3	75.2	75.2
52.5°	10592.8	8192.6	732.4	263.3	175.6	110.4	85.3	75.2	67.7	64.0	64.0
55°	11228.6	8143.7	544.3	216.9	141.7	90.3	72.7	64.0	57.7	53.9	53.9
57.5°	11838.1	7985.7	406.3	176.8	114.1	72.7	61.4	53.9	47.7	45.1	45.1
60°	12336.0	7722.4	302.2	143.0	91.5	58.9	51.4	43.9	38.9	35.1	35.1
62.5°	12739.8	7431.4	222.0	117.9	72.7	46.4	40.1	36.4	28.8	25.1	25.1
65°	12742.3	6948.6	166.8	97.8	56.4	36.4	30.1	28.8	18.8	15.0	13.8
67.5°	11820.5	5990.5	127.9	84.0	43.9	27.6	22.6	23.8	10.0	6.3	5.0
68°	11485.7	5747.2	120.4	82.8	41.4	26.3	21.3	23.8	8.8	5.0	3.8
70°	9683.7	4572.2	96.6	80.3	36.4	20.1	17.6	23.8	7.5	3.8	2.5
72.5°	6193.7	2653.5	71.5	64.0	27.6	15.0	11.3	21.3	7.5	2.5	1.3
75°	2636.0	822.6	48.9	45.1	16.3	11.3	7.5	13.8	5.0	1.3	0.0
77.5°	555.5	185.6	28.8	27.6	11.3	7.5	5.0	3.8	1.3	0.0	0.0
80°	143.0	53.9	15.0	13.8	6.3	3.8	2.5	0.0	0.0	0.0	0.0
82.5°	45.1	21.3	8.8	6.3	2.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	22.6	12.5	5.0	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	12.5	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)