

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: P322801

Luminaire Tested: **GAN-SA7B-727-U-T4W-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322801
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-19)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA7B-727-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24500 lumens
Efficiency: N/A
Efficacy: 83.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

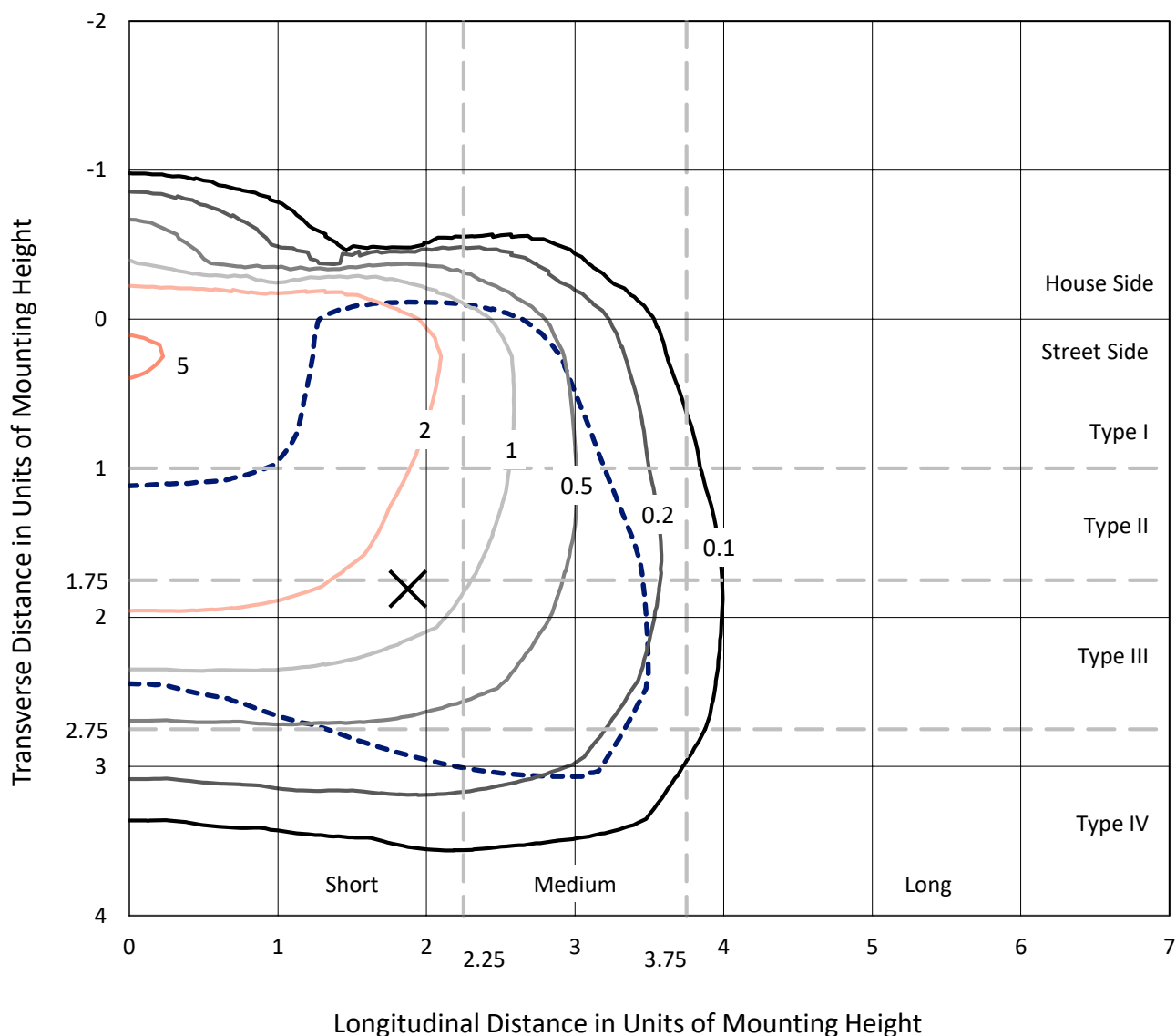
Input Watts (W): 295
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

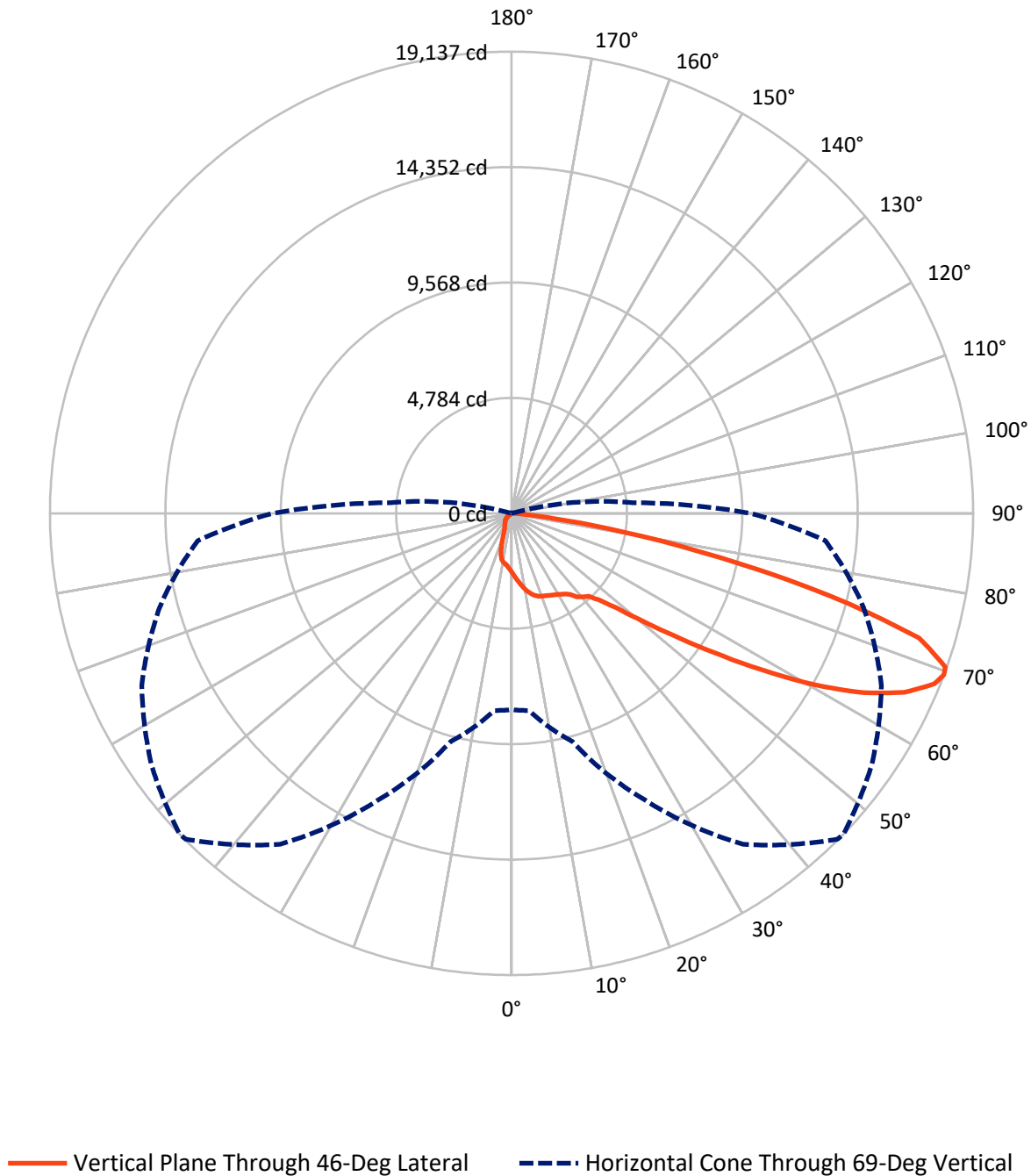
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2514.4	0.0	2514.4
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	21985.6	0.0	21985.6
	% Fixture	89.7	0.0	89.7
Total	Lumens	24500.0	0.0	24500.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	244.3	1.0
10°-20°	741.3	3.0
20°-30°	1165.8	4.8
30°-40°	1671.7	6.8
40°-50°	2889.3	11.8
50°-60°	5708.2	23.3
60°-70°	7977.7	32.6
70°-80°	3854.1	15.7
80°-90°	247.7	1.0
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°	24500.0	100.0
0°-180°	24500.0	100.0

Coefficient of Utilization



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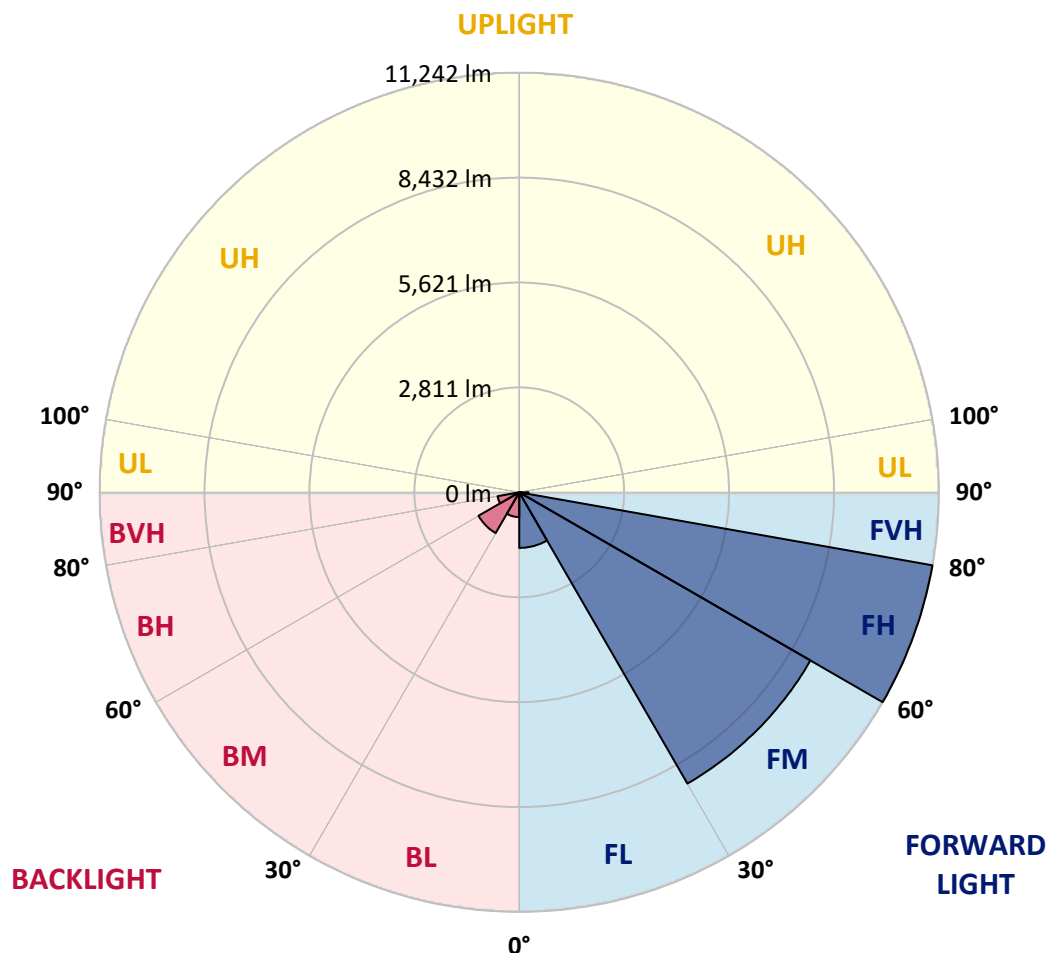
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1488.7	6.1			
FM	(30°-60°)	9009.2	36.8			
FH	(60°-80°)	11242.1	45.9			G4/12000
FVH	(80°-90°)	245.6	1.0			G3/500
BL	(0°-30°)	662.7	2.7	B2/1000		
BM	(30°-60°)	1260.0	5.1	B2/2500		
BH	(60°-80°)	589.6	2.4	B2/1000		G2/1000
BVH	(80°-90°)	2.1	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°	35°	45°	46°	55°	65°	75°	85°
0°	2454.8	2454.8	2454.8	2454.8	2454.8	2454.8	2454.8	2454.8	2454.8	2454.8	2454.8
2.5°	2727.1	2723.6	2707.5	2700.6	2661.6	2638.6	2629.4	2600.7	2559.3	2518.0	2472.0
5°	3037.2	3036.1	3006.2	2977.5	2904.0	2835.0	2822.4	2755.8	2662.7	2575.4	2488.1
7.5°	3354.3	3339.3	3309.5	3254.3	3147.5	3037.2	3026.9	2932.7	2800.6	2674.2	2549.0
10°	3623.1	3613.9	3574.8	3491.0	3365.7	3240.5	3227.9	3111.9	2962.5	2807.5	2647.8
12.5°	3832.1	3825.2	3773.5	3669.0	3535.8	3405.9	3388.7	3285.3	3125.7	2952.2	2763.8
15°	3959.6	3956.2	3893.0	3781.6	3650.6	3538.0	3523.1	3432.4	3284.2	3102.7	2890.2
17.5°	3989.5	3990.6	3925.2	3812.6	3704.6	3624.2	3612.7	3543.8	3419.7	3239.4	3016.5
20°	3922.9	3936.7	3878.1	3780.4	3713.8	3671.3	3662.1	3620.8	3516.2	3346.2	3117.6
22.5°	3828.7	3835.6	3795.4	3729.9	3702.3	3710.4	3705.8	3682.8	3594.3	3438.1	3217.6
25°	3771.2	3771.2	3747.1	3692.0	3710.4	3759.8	3760.9	3756.3	3686.2	3550.7	3339.3
27.5°	3768.9	3762.0	3734.5	3693.1	3743.7	3819.5	3824.1	3855.1	3811.4	3687.4	3491.0
30°	3860.8	3852.8	3794.2	3740.2	3804.6	3886.1	3897.6	3965.4	3943.5	3835.6	3659.8
32.5°	4075.6	4046.9	3917.1	3828.7	3876.9	3974.6	3989.5	4097.5	4131.9	4018.2	3822.9
35°	4369.7	4279.0	4091.7	3996.4	4001.0	4103.2	4117.0	4275.5	4377.8	4185.9	3949.3
37.5°	4775.2	4730.4	4426.0	4171.0	4191.7	4346.7	4387.0	4559.3	4530.5	4277.8	4092.9
40°	5664.3	5594.3	5270.3	4660.3	4374.3	4544.3	4557.0	4648.9	4651.2	4485.7	4391.5
42.5°	6875.1	6846.4	6505.2	5548.3	4733.9	4676.4	4699.4	4854.5	5027.9	4924.6	4920.0
45°	8215.6	8200.7	7838.8	6726.9	5461.0	5109.5	5138.2	5346.1	5678.1	5701.1	5847.0
47.5°	9294.3	9287.4	9079.5	8042.2	6574.1	5843.5	5852.7	6073.3	6656.8	6945.1	7178.3
50°	10277.6	10310.9	10146.6	9465.4	8090.4	6993.4	6971.6	7118.6	8056.0	8528.1	8817.6
52.5°	11644.5	11691.6	11231.0	10793.3	9681.4	8420.1	8402.9	8556.8	9737.7	10091.5	10143.2
55°	12851.8	12771.4	12407.3	12280.9	11621.6	10182.2	10177.6	10313.2	11364.3	11514.7	11610.1
57.5°	13384.9	13353.8	13529.6	13819.1	13653.7	12264.9	12254.5	12151.1	12819.7	12835.8	13128.7
60°	13721.4	13759.3	14298.1	15190.6	15603.0	14506.0	14439.4	13808.7	14209.6	14174.0	14487.6
62.5°	13468.7	13543.4	14512.9	16000.5	17061.9	16462.3	16368.1	15327.3	15397.4	15274.5	15566.3
65°	12127.0	12243.0	13831.7	15847.7	17785.6	17991.2	17895.9	16667.9	16340.5	16138.3	15976.4
67.5°	9846.8	9915.7	11574.5	14518.6	17459.4	18903.3	18883.8	17843.0	17052.7	15992.4	14735.7
69°	8137.5	8205.3	9802.0	13119.5	16741.4	19098.6	19136.5	18219.8	16917.2	15105.6	13056.3
70°	6892.3	6964.7	8452.3	11920.2	15908.6	19007.8	19075.6	18184.2	16528.9	14078.7	11582.5
72.5°	3615.0	3677.0	5203.7	8212.2	12969.0	17453.6	17659.2	16647.2	14010.9	10224.7	6848.7
75°	1136.1	1171.7	2032.1	4292.8	8879.6	13570.9	13618.0	13058.6	9949.0	5624.1	2852.3
77.5°	433.1	422.7	676.6	1581.8	4489.2	8545.3	8833.6	8160.5	5220.9	1988.4	658.2
80°	233.2	234.3	351.5	654.8	1920.7	4391.5	4635.1	3955.0	1855.2	620.3	151.6
82.5°	101.1	105.7	197.6	346.9	882.2	1619.7	1741.5	1449.7	708.8	417.0	56.3
85°	21.8	24.1	95.3	188.4	359.5	454.9	476.7	469.8	451.4	323.9	21.8
87.5°	0.0	0.0	42.5	67.8	90.7	103.4	90.7	118.3	249.3	218.3	11.5
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°	2454.8	2454.8	2454.8	2454.8	2454.8	2454.8	2454.8	2454.8	2454.8	2454.8	2454.8
2.5°	2457.1	2436.4	2400.8	2361.8	2334.2	2305.5	2282.5	2272.2	2260.7	2252.6	2263.0
5°	2452.5	2412.3	2343.4	2276.8	2228.5	2189.5	2157.3	2144.7	2132.0	2122.8	2121.7
7.5°	2492.7	2436.4	2330.7	2233.1	2158.4	2105.6	2061.9	2043.6	2028.6	2021.7	2016.0
10°	2569.7	2497.3	2356.0	2228.5	2132.0	2042.4	1948.2	1875.9	1828.8	1806.9	1798.9
12.5°	2669.6	2578.9	2404.3	2252.6	2112.5	1940.2	1740.3	1568.0	1456.6	1419.8	1398.0
15°	2786.8	2674.2	2467.4	2283.6	2041.3	1726.5	1387.7	1162.5	1059.1	1038.4	1015.5
17.5°	2899.4	2775.3	2543.3	2289.4	1885.0	1379.6	1016.6	863.8	823.6	837.4	840.9
20°	2998.2	2875.2	2617.9	2238.8	1601.3	1035.0	786.9	749.0	763.9	790.3	794.9
22.5°	3098.1	2971.7	2686.8	2105.6	1238.3	785.7	708.8	717.9	732.9	759.3	763.9
25°	3219.9	3088.9	2751.2	1860.9	929.3	668.6	673.1	686.9	701.9	726.0	728.3
27.5°	3360.0	3237.1	2793.7	1542.7	689.2	614.6	629.5	650.2	665.1	688.1	692.7
30°	3546.1	3432.4	2807.5	1213.0	577.8	566.3	573.2	598.5	620.3	641.0	644.4
32.5°	3720.7	3625.4	2761.5	915.5	535.3	521.5	521.5	536.5	561.7	581.3	585.8
35°	3881.5	3819.5	2614.5	669.7	503.1	480.2	468.7	468.7	484.8	500.8	505.4
37.5°	4094.0	4091.7	2376.7	534.2	472.1	445.7	421.6	403.2	397.5	400.9	403.2
40°	4458.2	4461.6	2066.5	479.0	445.7	410.1	373.3	340.0	309.0	298.7	297.5
42.5°	5026.8	4975.1	1741.5	452.6	422.7	373.3	318.2	273.4	225.1	210.2	209.1
45°	5929.7	5623.0	1396.8	428.5	398.6	332.0	263.1	202.2	163.1	151.6	151.6
47.5°	7245.0	6474.2	1082.1	402.1	366.4	284.9	198.7	145.9	119.5	113.7	114.9
50°	8605.0	7308.1	829.4	368.7	327.4	235.5	147.0	105.7	90.7	90.7	91.9
52.5°	9811.2	7919.3	646.7	333.1	279.1	184.9	111.4	82.7	75.8	74.7	75.8
55°	10940.4	8313.3	495.1	291.8	221.7	137.8	85.0	67.8	63.2	60.9	59.7
57.5°	12029.4	8508.5	371.0	235.5	160.8	99.9	67.8	57.4	52.8	49.4	48.2
60°	12754.2	8350.0	255.0	173.5	111.4	72.4	56.3	49.4	43.7	40.2	39.1
62.5°	13163.1	7917.0	164.3	125.2	79.3	54.0	44.8	41.4	33.3	29.9	29.9
65°	12997.7	7202.5	114.9	89.6	57.4	40.2	33.3	33.3	24.1	19.5	18.4
67.5°	11518.2	6084.8	87.3	66.6	41.4	29.9	25.3	28.7	14.9	9.2	9.2
69°	9910.0	5042.9	74.7	55.1	34.5	24.1	21.8	26.4	10.3	6.9	5.7
70°	8613.1	4350.2	67.8	48.2	28.7	20.7	19.5	25.3	10.3	5.7	4.6
72.5°	5153.1	2426.1	51.7	34.5	18.4	16.1	16.1	28.7	10.3	5.7	4.6
75°	2082.6	854.6	37.9	24.1	13.8	13.8	19.5	36.8	9.2	4.6	3.4
77.5°	472.1	187.2	21.8	14.9	9.2	13.8	23.0	28.7	5.7	2.3	0.0
80°	114.9	45.9	13.8	9.2	5.7	10.3	17.2	16.1	1.1	0.0	0.0
82.5°	37.9	16.1	5.7	4.6	1.1	3.4	8.0	4.6	0.0	0.0	0.0
85°	16.1	9.2	2.3	1.1	0.0	0.0	1.1	0.0	0.0	0.0	0.0
87.5°	10.3	3.4	0.0	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)