

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: P323118

Luminaire Tested: **GAN-SA4B-727-U-SL2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323118
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-21)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA4B-727-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15967 lumens
Efficiency: N/A
Efficacy: 93.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

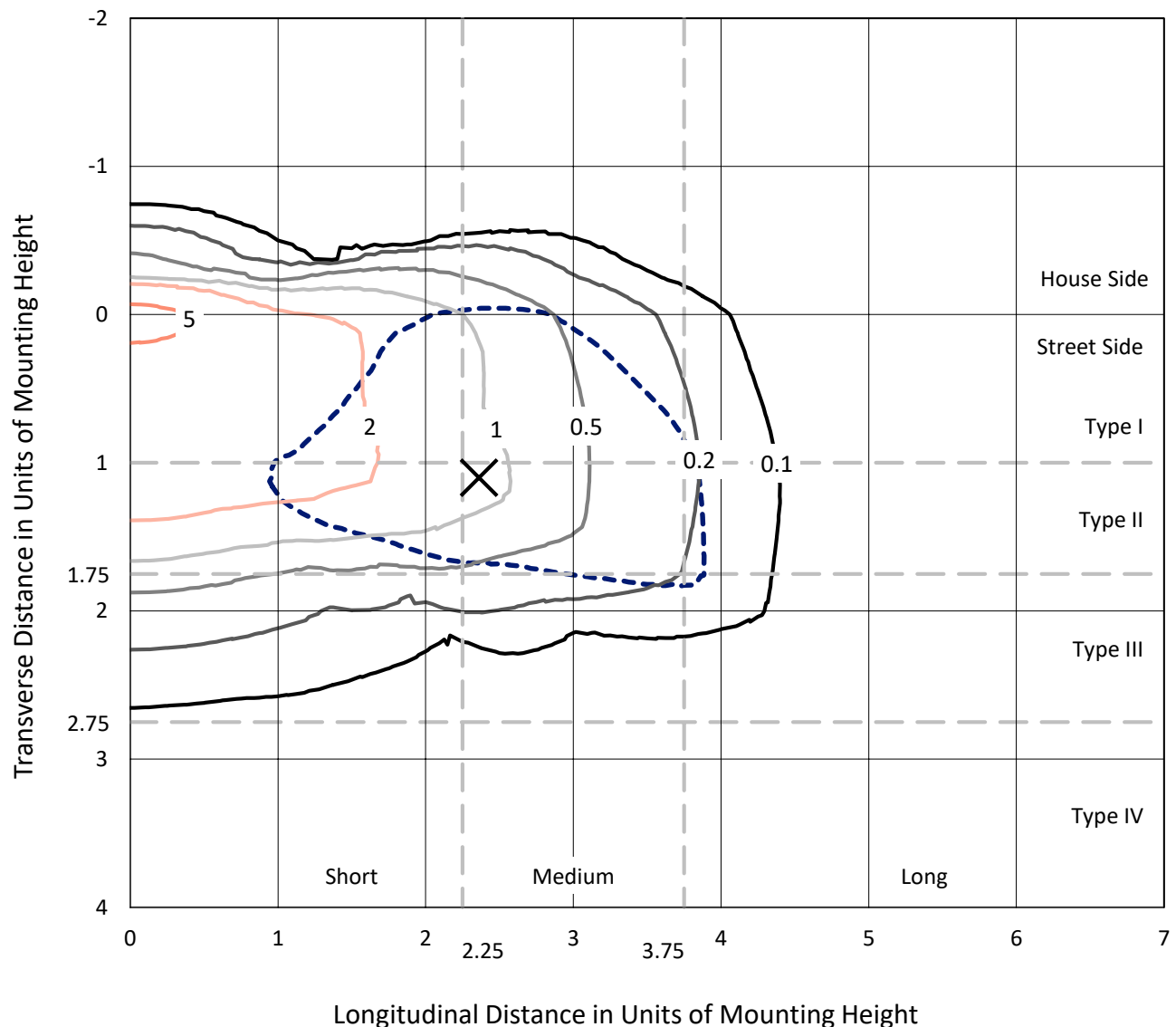
Input Watts (W): 171
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

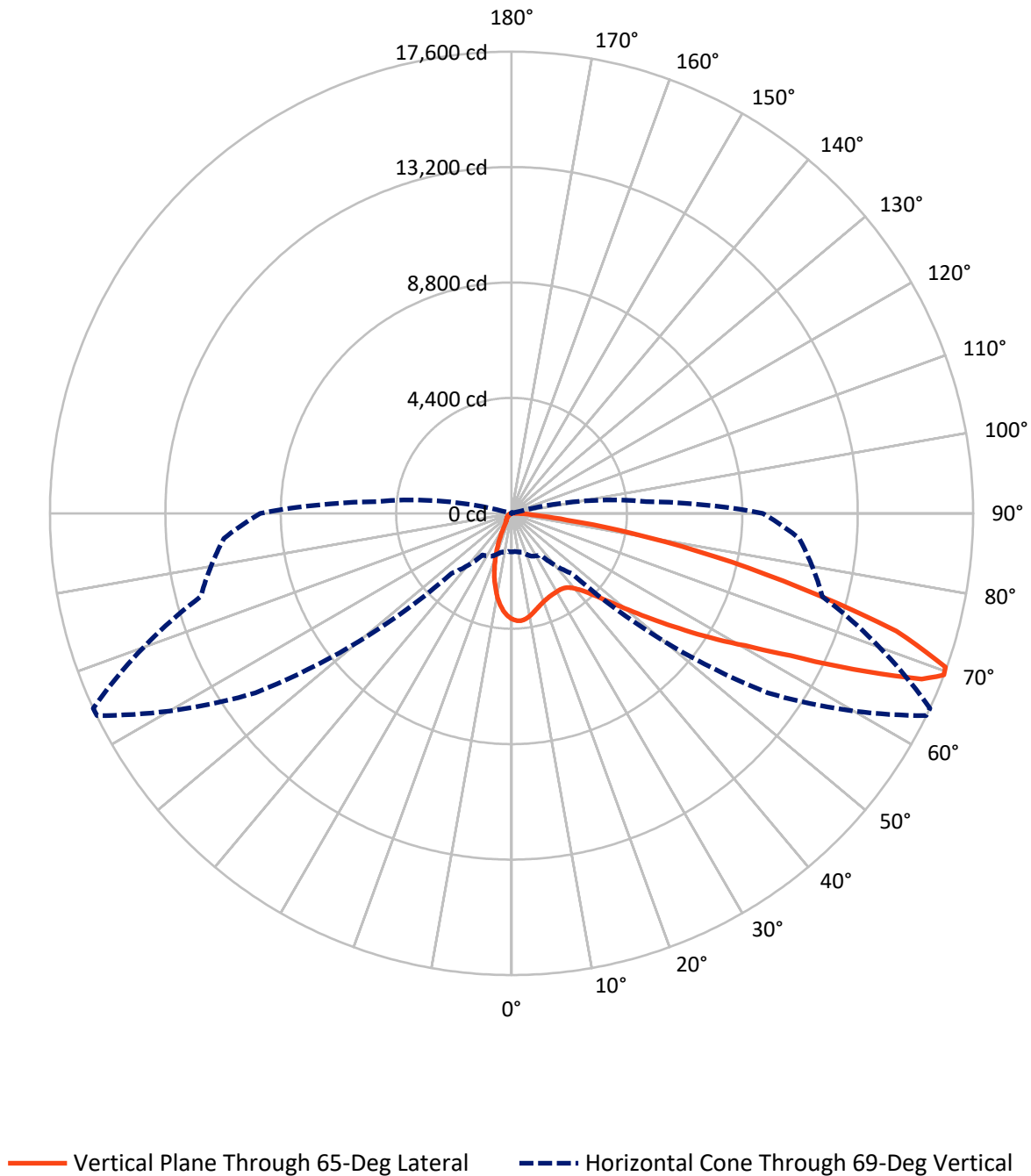
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1882.1	0.0	1882.1
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	14084.9	0.0	14084.9
	% Fixture	88.2	0.0	88.2
Total	Lumens	15967.0	0.0	15967.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	337.4	2.1
10°-20°	738.6	4.6
20°-30°	1023.0	6.4
30°-40°	1426.3	8.9
40°-50°	2217.0	13.9
50°-60°	3559.2	22.3
60°-70°	4026.0	25.2
70°-80°	2364.5	14.8
80°-90°	275.1	1.7
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°	15967.0	100.0
0°-180°	15967.0	100.0

Coefficient of Utilization



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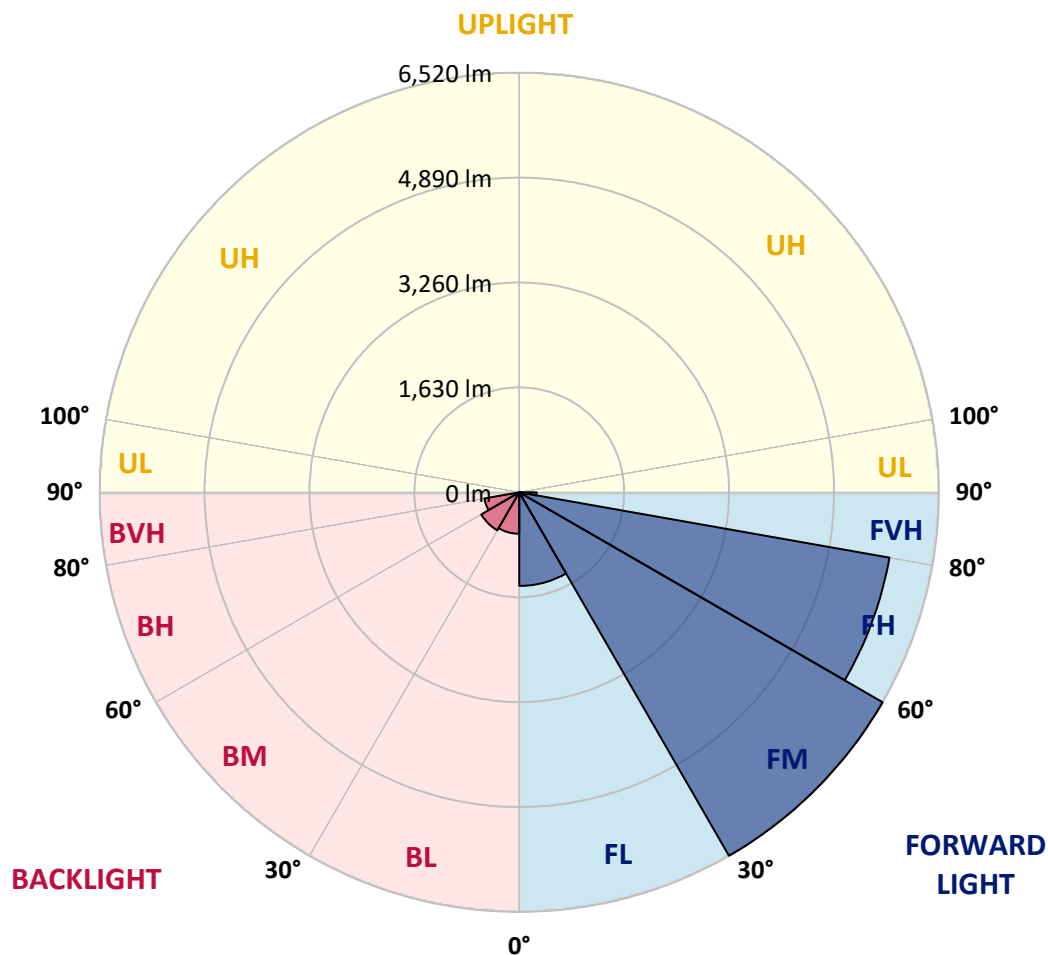
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1455.0	9.1			
FM	(30°-60°)	6520.5	40.8			
FH	(60°-80°)	5840.6	36.6			G3/7500
FVH	(80°-90°)	268.9	1.7			G3/500
BL	(0°-30°)	644.0	4.0	B2/1000		
BM	(30°-60°)	682.0	4.3	B1/1000		
BH	(60°-80°)	549.9	3.4	B2/1000		G2/1000
BVH	(80°-90°)	6.2	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-G3

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	4034.9	4034.9	4034.9	4034.9	4034.9	4034.9	4034.9	4034.9	4034.9	4034.9	4034.9
2.5°	4070.7	4060.6	4068.7	4086.2	4095.0	4095.0	4101.8	4093.7	4096.4	4076.8	4048.4
5°	3816.0	3800.4	3822.7	3872.1	3932.9	3984.9	4061.9	4102.5	4106.5	4107.2	4074.1
7.5°	3541.7	3527.5	3560.6	3618.7	3697.1	3793.7	3928.1	4045.7	4052.5	4116.0	4091.6
10°	3318.7	3308.6	3347.1	3409.3	3501.1	3609.2	3774.1	3937.6	3957.2	4097.7	4088.9
12.5°	3141.7	3133.6	3170.1	3241.7	3335.6	3455.2	3627.5	3817.3	3843.7	4056.5	4075.4
15°	3012.7	3011.3	3041.7	3110.6	3214.7	3326.1	3502.5	3705.9	3736.3	4011.9	4073.4
17.5°	2945.1	2947.1	2969.4	3028.2	3117.4	3228.2	3397.1	3611.9	3645.0	3972.1	4083.5
20°	2938.3	2940.4	2952.5	2985.6	3057.9	3155.9	3311.3	3532.9	3567.3	3942.3	4099.7
22.5°	2997.8	2996.4	2999.8	2996.4	3037.0	3111.3	3254.5	3472.1	3511.9	3922.7	4112.6
25°	3112.0	3109.9	3108.6	3083.6	3056.6	3096.4	3230.9	3437.6	3475.5	3908.5	4120.0
27.5°	3270.7	3269.4	3267.4	3226.2	3145.1	3120.1	3233.6	3424.8	3456.5	3897.1	4118.7
30°	3479.5	3489.0	3486.3	3428.8	3302.5	3192.4	3262.0	3418.0	3445.7	3874.8	4104.5
32.5°	3724.8	3743.7	3758.6	3697.1	3539.0	3335.6	3327.5	3425.5	3445.7	3857.9	4078.8
35°	3979.5	4003.8	4058.5	4036.9	3828.8	3551.1	3440.3	3470.1	3486.9	3867.3	4066.6
37.5°	4230.1	4259.2	4378.1	4440.9	4208.5	3836.3	3616.0	3580.2	3589.0	3924.8	4080.2
40°	4521.3	4565.3	4745.7	4847.0	4661.9	4218.0	3878.8	3769.4	3772.7	4051.1	4143.0
42.5°	4903.8	4949.0	5144.3	5303.1	5172.7	4700.4	4235.6	4058.5	4055.2	4287.6	4291.0
45°	5369.9	5417.2	5619.3	5795.6	5736.8	5272.0	4692.3	4480.8	4476.8	4660.5	4571.3
47.5°	5898.3	5944.9	6125.3	6307.0	6370.6	5939.5	5274.0	5057.1	5047.7	5178.7	5004.4
50°	6351.6	6382.0	6548.2	6792.8	7079.3	6759.7	5997.6	5788.8	5778.7	5867.2	5640.2
52.5°	6516.5	6534.1	6703.0	7045.5	7760.3	7870.5	6948.2	6679.3	6671.9	6710.4	6486.8
55°	6182.7	6214.5	6421.9	6930.0	8129.2	9125.8	8148.2	7782.0	7725.9	7642.8	7371.8
57.5°	5273.3	5324.0	5547.0	6222.6	7956.9	10121.7	9911.6	9029.2	8946.8	8438.7	8091.4
60°	3951.1	4013.3	4198.4	4927.4	7037.4	10476.4	11838.5	10419.0	10233.2	9072.4	8752.8
62.5°	2711.3	2742.4	2868.1	3343.0	5182.8	9895.3	13450.5	12280.3	11941.2	9761.6	9468.3
65°	2070.8	2081.6	2133.0	2296.5	3086.3	8038.0	14091.7	14736.3	14326.2	10585.8	10210.9
67.5°	1668.8	1660.0	1731.0	1964.7	2066.8	4903.8	13343.8	17059.8	16867.9	11687.8	10958.1
69°	1471.5	1459.4	1531.7	1803.3	1941.1	3241.7	11929.0	17587.4	17599.6	12269.5	11009.5
70°	1324.2	1332.4	1404.0	1707.3	1898.5	2544.4	10577.7	17453.0	17548.9	12487.1	10701.4
72.5°	884.4	906.0	1049.9	1417.5	1825.6	1925.6	6386.8	14976.8	15345.7	11997.2	9181.2
75°	498.6	514.8	685.8	1068.9	1720.2	1833.7	3373.4	11033.8	11390.5	10032.5	7080.0
77.5°	244.6	253.4	387.8	689.8	1438.4	1747.2	1913.4	7494.8	7902.2	6548.2	4004.5
80°	103.4	108.1	193.9	425.6	1028.3	1667.5	1420.9	4612.6	4663.2	2565.4	1066.8
82.5°	39.9	41.2	81.8	265.5	653.3	1299.9	1188.4	2187.0	2134.3	483.1	243.2
85°	4.7	5.4	29.7	159.4	363.5	668.9	965.5	942.5	872.2	95.9	125.0
87.5°	0.0	0.0	2.0	48.6	108.1	313.5	502.0	391.2	352.7	31.1	64.9
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°	4034.9	4034.9	4034.9	4034.9	4034.9	4034.9	4034.9	4034.9	4034.9	4034.9	4034.9
2.5°	4024.8	4018.0	3981.5	3928.8	3878.8	3816.7	3757.2	3721.4	3693.0	3674.1	3696.4
5°	4035.6	4005.8	3895.0	3753.1	3614.0	3457.2	3311.3	3187.6	3139.0	3084.9	3109.3
7.5°	4032.2	3976.1	3776.8	3524.1	3268.7	3004.5	2754.6	2562.0	2462.0	2364.0	2389.0
10°	4015.3	3920.7	3618.7	3244.4	2862.0	2482.3	2127.6	1858.0	1707.3	1570.9	1590.4
12.5°	3978.1	3846.4	3432.2	2924.1	2412.7	1912.0	1496.5	1151.3	966.2	884.4	894.5
15°	3955.8	3774.1	3234.9	2599.8	1933.0	1331.7	914.8	680.4	595.9	568.9	572.3
17.5°	3945.0	3704.5	3030.9	2228.9	1442.5	847.9	591.2	521.6	503.3	498.6	500.0
20°	3934.2	3634.2	2820.8	1862.0	993.9	570.2	485.8	465.5	458.8	452.7	454.0
22.5°	3916.0	3566.7	2595.1	1490.4	670.2	462.8	437.8	418.2	404.0	396.6	397.9
25°	3893.7	3495.7	2364.7	1110.1	489.2	412.8	389.2	361.5	344.6	331.1	331.7
27.5°	3857.9	3408.6	2126.9	808.1	410.8	369.6	337.8	307.4	279.0	263.5	263.5
30°	3807.9	3309.9	1862.7	578.3	368.2	327.0	288.5	250.7	220.3	206.1	204.7
32.5°	3752.5	3207.2	1595.8	438.5	334.4	287.1	243.2	203.4	176.3	164.9	164.2
35°	3705.2	3096.4	1329.6	367.5	300.7	248.6	200.7	166.9	145.3	135.8	135.1
37.5°	3674.8	2985.6	1070.2	328.4	270.3	212.8	168.2	137.8	122.3	114.9	114.2
40°	3670.0	2903.2	833.1	298.6	241.9	181.1	140.5	116.9	102.7	94.6	93.9
42.5°	3731.5	2855.9	639.2	273.6	212.8	153.4	119.6	100.0	85.1	77.0	76.3
45°	3893.0	2870.8	491.9	251.3	183.8	129.7	101.3	83.1	69.6	63.5	62.2
47.5°	4187.6	2973.5	391.2	229.0	156.1	110.1	86.5	68.9	57.4	51.3	50.7
50°	4711.9	3214.7	327.0	204.7	130.4	93.9	71.6	56.1	46.6	41.2	40.5
52.5°	5407.8	3644.4	291.9	181.1	108.1	79.7	58.8	44.6	36.5	32.4	31.8
55°	6175.3	4164.6	268.9	155.4	88.5	66.2	46.6	35.1	28.4	25.0	23.6
57.5°	6924.6	4615.3	247.3	130.4	73.6	54.1	37.2	27.7	22.3	18.9	18.2
60°	7613.0	5029.4	222.3	104.7	60.1	42.6	29.1	21.6	17.6	14.2	14.2
62.5°	8350.2	5349.7	187.8	81.8	49.3	32.4	23.6	19.6	14.2	12.2	11.5
65°	9131.2	5587.5	147.3	63.5	38.5	24.3	19.6	20.3	11.5	8.8	8.1
67.5°	9708.2	5540.2	108.8	50.0	29.7	18.9	18.9	21.6	10.1	6.8	6.1
69°	9581.2	5155.8	91.2	43.2	25.7	16.2	17.6	21.6	9.5	6.1	5.4
70°	9213.0	4730.1	80.4	38.5	23.0	14.9	16.9	20.9	8.8	6.1	5.4
72.5°	7672.5	3562.6	62.8	29.1	18.2	12.2	14.2	18.2	8.8	6.1	4.7
75°	5771.3	2280.3	48.0	20.9	13.5	9.5	10.8	13.5	8.8	5.4	4.7
77.5°	3140.3	822.2	34.5	14.2	9.5	7.4	7.4	10.1	8.1	4.1	2.7
80°	807.4	206.7	21.6	9.5	7.4	5.4	4.7	6.8	4.7	0.7	0.0
82.5°	199.3	46.6	11.5	6.8	5.4	2.0	2.0	3.4	2.0	0.0	0.0
85°	109.5	23.0	7.4	4.7	2.7	0.0	0.0	0.7	0.0	0.0	0.0
87.5°	56.1	6.8	2.0	1.4	0.7	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)