

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: P323109

Luminaire Tested: **GAN-SA5A-727-U-SL2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323109
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-SA5A-727-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 615mA 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: 16134 lumens
Efficiency: N/A
Efficacy: 99.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

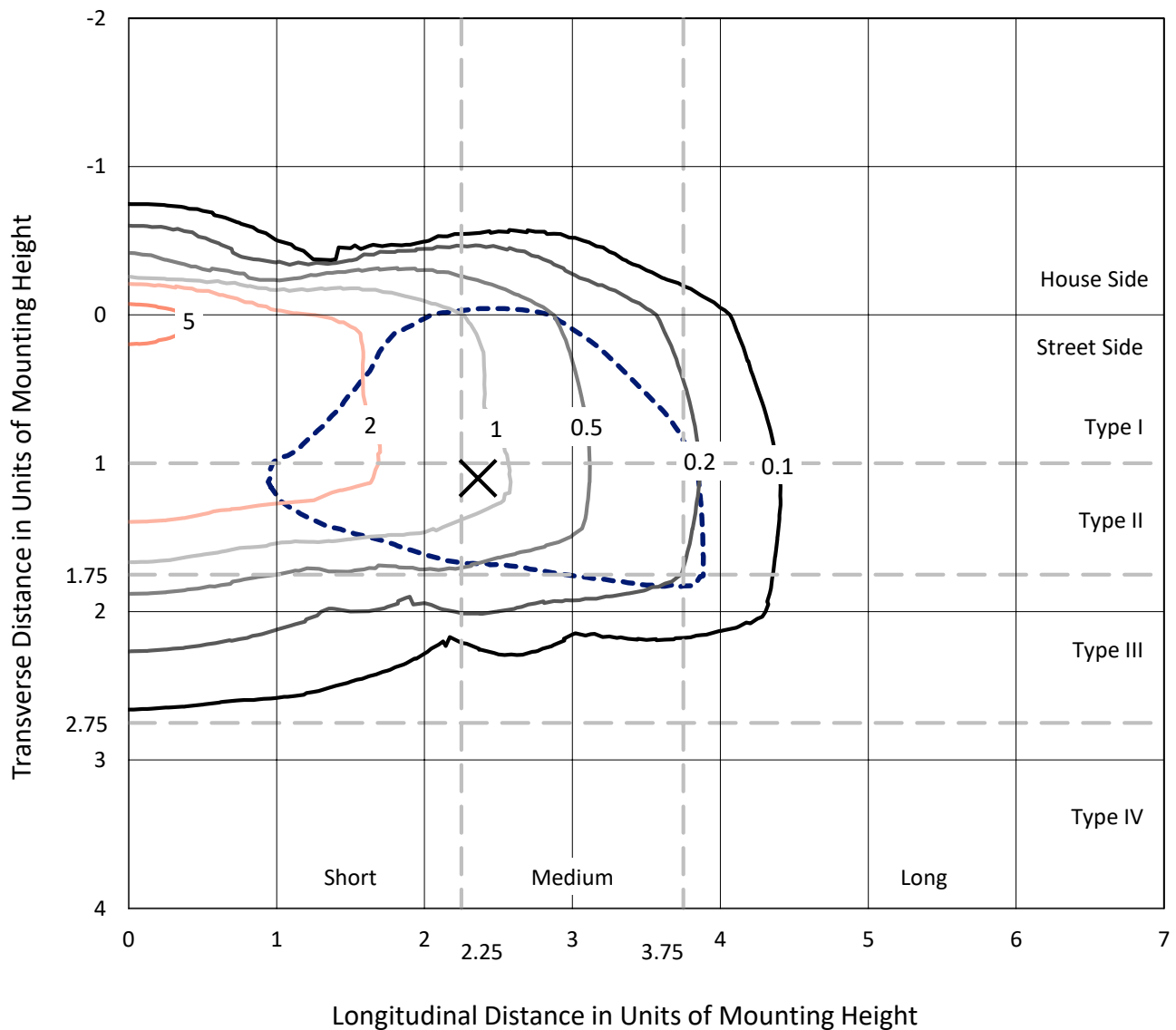
Input Watts (W): 162
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

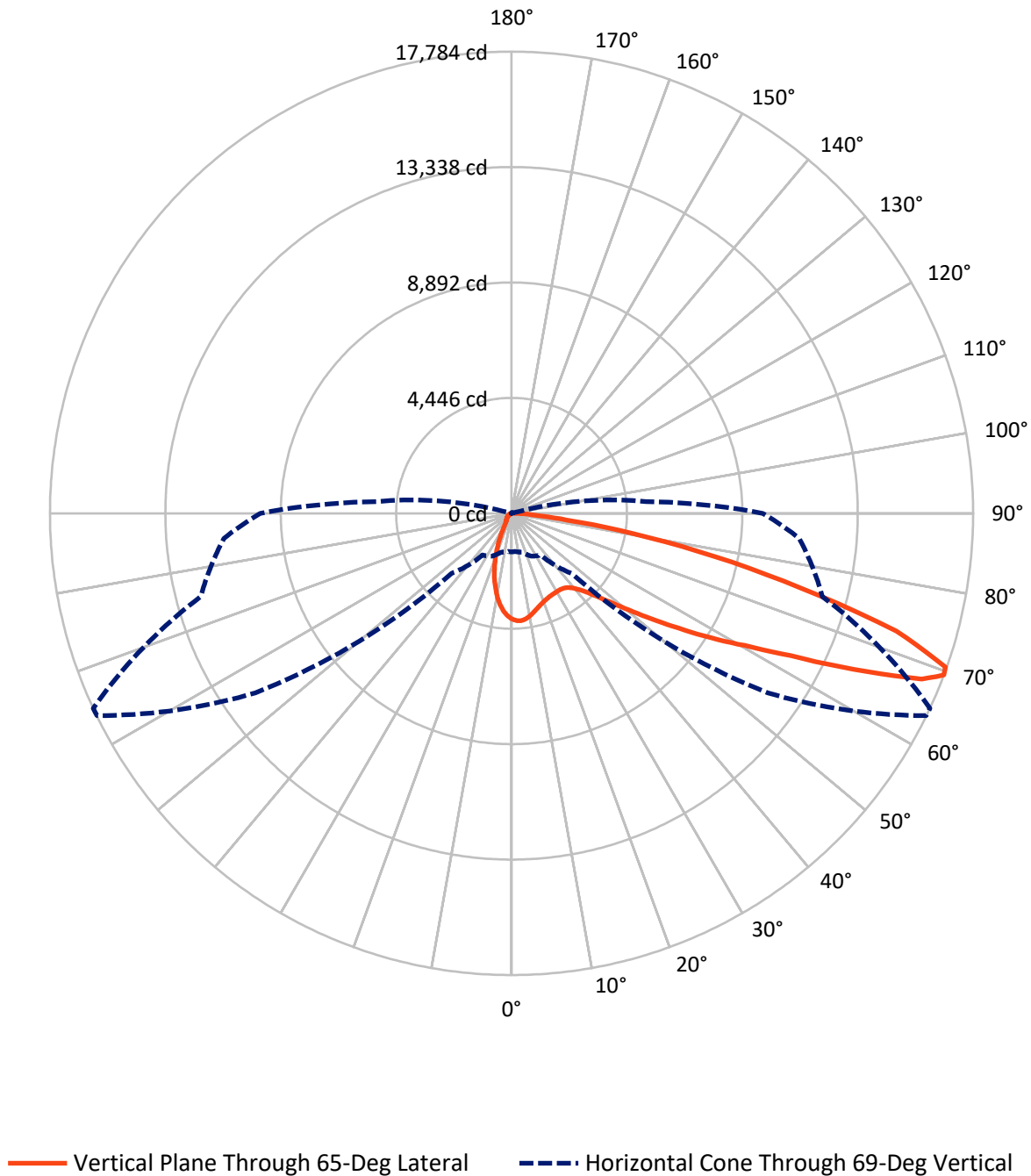
× Max cd
 - - - 1/2 Max cd



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	1901.8	0.0	1901.8
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	14232.2	0.0	14232.2
	% Fixture	88.2	0.0	88.2
Total	Lumens	16134.0	0.0	16134.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	340.9	2.1
10°-20°	746.3	4.6
20°-30°	1033.7	6.4
30°-40°	1441.3	8.9
40°-50°	2240.2	13.9
50°-60°	3596.4	22.3
60°-70°	4068.1	25.2
70°-80°	2389.2	14.8
80°-90°	277.9	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°	16134.0	100.0
0°-180°	16134.0	100.0

Coefficient of Utilization



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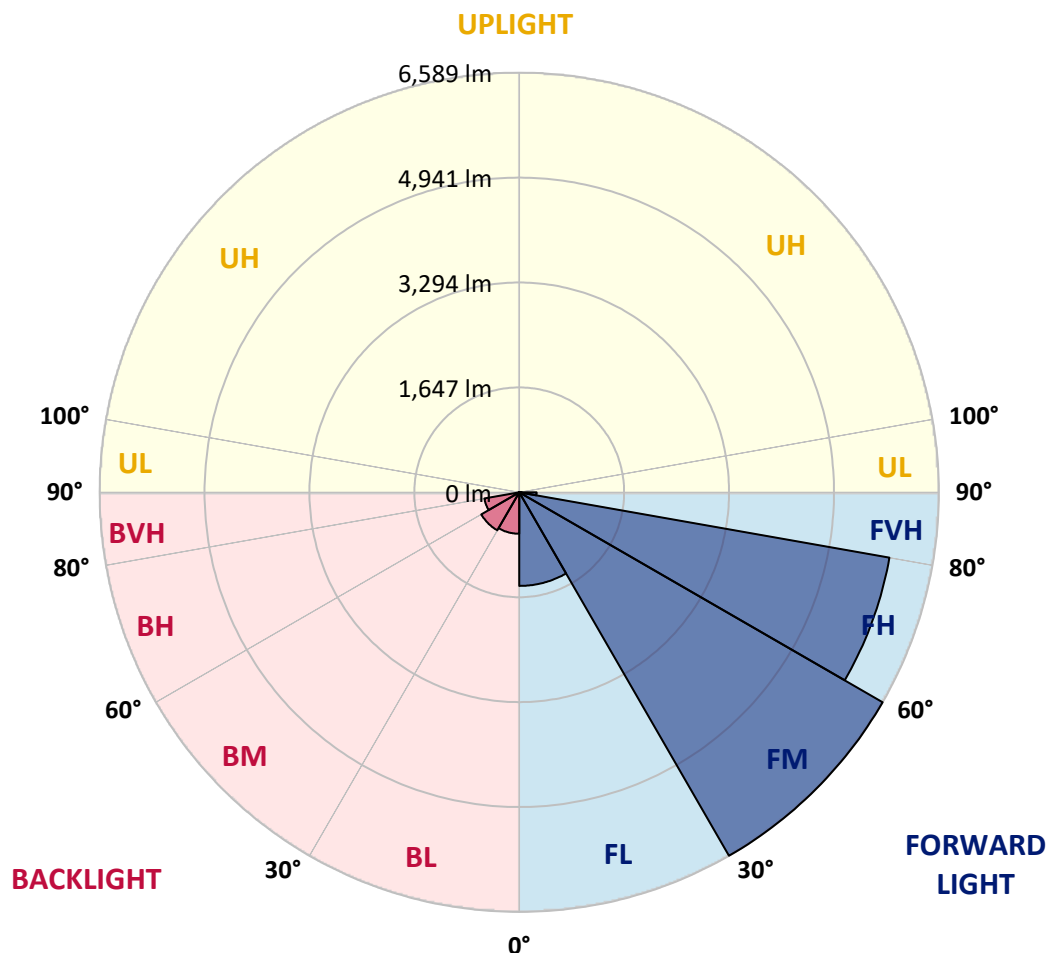
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1470.2	9.1			
FM	(30°-60°)	6588.7	40.8			
FH	(60°-80°)	5901.7	36.6			G3/7500
FVH	(80°-90°)	271.7	1.7			G3/500
BL	(0°-30°)	650.7	4.0	B2/1000		
BM	(30°-60°)	689.2	4.3	B1/1000		
BH	(60°-80°)	555.7	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°	4077.1	4077.1	4077.1	4077.1	4077.1	4077.1	4077.1	4077.1	4077.1	4077.1	4077.1
2.5°	4113.3	4103.0	4111.2	4129.0	4137.9	4137.9	4144.7	4136.5	4139.2	4119.4	4090.7
5°	3855.9	3840.2	3862.7	3912.6	3974.0	4026.6	4104.4	4145.4	4149.5	4150.1	4116.7
7.5°	3578.7	3564.4	3597.8	3656.5	3735.7	3833.4	3969.2	4088.0	4094.8	4159.0	4134.4
10°	3353.4	3343.2	3382.1	3444.9	3537.8	3647.0	3813.6	3978.8	3998.6	4140.6	4131.7
12.5°	3174.6	3166.4	3203.2	3275.6	3370.5	3491.3	3665.4	3857.3	3883.9	4098.9	4118.1
15°	3044.2	3042.8	3073.5	3143.2	3248.3	3360.9	3539.1	3744.6	3775.3	4053.9	4116.0
17.5°	2975.9	2977.9	3000.5	3059.9	3150.0	3261.9	3432.6	3649.7	3683.2	4013.6	4126.2
20°	2969.1	2971.1	2983.4	3016.9	3089.9	3188.9	3345.9	3569.8	3604.7	3983.6	4142.6
22.5°	3029.1	3027.8	3031.2	3027.8	3068.7	3143.8	3288.6	3508.4	3548.7	3963.8	4155.6
25°	3144.5	3142.5	3141.1	3115.8	3088.5	3128.8	3264.7	3473.6	3511.8	3949.4	4163.1
27.5°	3305.0	3303.6	3301.5	3259.9	3178.0	3152.7	3267.4	3460.6	3492.7	3937.8	4161.7
30°	3515.9	3525.5	3522.7	3464.7	3337.0	3225.8	3296.1	3453.8	3481.8	3915.3	4147.4
32.5°	3763.7	3782.8	3797.9	3735.7	3576.0	3370.5	3362.3	3461.3	3481.8	3898.2	4121.5
35°	4021.1	4045.7	4101.0	4079.1	3868.9	3588.3	3476.3	3506.4	3523.4	3907.8	4109.2
37.5°	4274.4	4303.7	4423.9	4487.4	4252.5	3876.4	3653.8	3617.6	3626.5	3965.8	4122.8
40°	4568.6	4613.0	4795.3	4897.7	4710.6	4262.1	3919.4	3808.8	3812.2	4093.5	4186.3
42.5°	4955.0	5000.8	5198.1	5358.5	5226.8	4749.6	4279.9	4101.0	4097.6	4332.4	4335.8
45°	5426.1	5473.9	5678.0	5856.2	5796.8	5327.1	4741.4	4527.7	4523.6	4709.3	4619.2
47.5°	5960.0	6007.1	6189.4	6373.0	6437.2	6001.6	5329.2	5110.0	5100.5	5232.9	5056.8
50°	6418.1	6448.8	6616.7	6863.9	7153.3	6830.4	6060.3	5849.4	5839.1	5928.6	5699.2
52.5°	6584.7	6602.4	6773.1	7119.2	7841.5	7952.8	7020.9	6749.2	6741.7	6780.6	6554.6
55°	6247.4	6279.5	6489.1	7002.5	8214.3	9221.2	8233.4	7863.3	7806.7	7722.7	7449.0
57.5°	5328.5	5379.7	5605.0	6287.7	8040.2	10227.5	10015.2	9123.6	9040.3	8526.9	8176.0
60°	3992.4	4055.2	4242.3	4978.9	7111.0	10586.0	11962.3	10527.9	10340.2	9167.3	8844.4
62.5°	2739.7	2771.1	2898.1	3378.0	5237.0	9998.8	13591.2	12408.8	12066.1	9863.7	9567.4
65°	2092.5	2103.4	2155.3	2320.5	3118.6	8122.1	14239.1	14890.4	14476.0	10696.6	10317.7
67.5°	1686.3	1677.4	1749.1	1985.3	2088.4	4955.0	13483.3	17238.2	17044.3	11810.0	11072.7
69°	1486.9	1474.6	1547.7	1822.1	1961.4	3275.6	12053.8	17771.4	17783.7	12397.8	11124.6
70°	1338.1	1346.3	1418.7	1725.2	1918.4	2571.1	10688.4	17635.5	17732.5	12617.7	10813.3
72.5°	893.7	915.5	1060.9	1432.3	1844.7	1945.7	6453.6	15133.4	15506.2	12122.7	9277.2
75°	503.8	520.2	692.9	1080.0	1738.2	1852.9	3408.7	11149.2	11509.7	10137.4	7154.0
77.5°	247.1	256.0	391.9	697.0	1453.5	1765.5	1933.4	7573.2	7984.9	6616.7	4046.4
80°	104.5	109.2	195.9	430.1	1039.1	1684.9	1435.7	4660.8	4712.0	2592.2	1078.0
82.5°	40.3	41.6	82.6	268.3	660.2	1313.5	1200.9	2209.9	2156.7	488.1	245.8
85°	4.8	5.5	30.0	161.1	367.3	675.9	975.6	952.4	881.4	96.9	126.3
87.5°	0.0	0.0	2.0	49.2	109.2	316.8	507.2	395.3	356.4	31.4	65.5
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°	4077.1	4077.1	4077.1	4077.1	4077.1	4077.1	4077.1	4077.1	4077.1	4077.1	4077.1
2.5°	4066.8	4060.0	4023.2	3969.9	3919.4	3856.6	3796.5	3760.3	3731.6	3712.5	3735.1
5°	4077.8	4047.7	3935.8	3792.4	3651.8	3493.4	3345.9	3221.0	3171.8	3117.2	3141.8
7.5°	4074.4	4017.7	3816.3	3561.0	3302.9	3036.0	2783.4	2588.8	2487.8	2388.8	2414.0
10°	4057.3	3961.7	3656.5	3278.3	2891.9	2508.2	2149.8	1877.4	1725.2	1587.3	1607.1
12.5°	4019.7	3886.6	3468.1	2954.7	2437.9	1932.0	1512.2	1163.3	976.3	893.7	903.9
15°	3997.2	3813.6	3268.8	2627.0	1953.2	1345.6	924.4	687.5	602.1	574.8	578.2
17.5°	3986.3	3743.2	3062.6	2252.2	1457.6	856.8	597.4	527.0	508.6	503.8	505.2
20°	3975.4	3672.2	2850.3	1881.5	1004.3	576.2	490.9	470.4	463.6	457.4	458.8
22.5°	3956.9	3604.0	2622.3	1506.0	677.2	467.7	442.4	422.6	408.3	400.7	402.1
25°	3934.4	3532.3	2389.5	1121.7	494.3	417.1	393.2	365.2	348.2	334.5	335.2
27.5°	3898.2	3444.2	2149.1	816.5	415.1	373.4	341.4	310.6	282.0	266.3	266.3
30°	3847.7	3344.6	1882.2	584.4	372.1	330.4	291.5	253.3	222.6	208.2	206.9
32.5°	3791.7	3240.8	1612.5	443.1	337.9	290.1	245.8	205.5	178.2	166.6	165.9
35°	3743.9	3128.8	1343.6	371.4	303.8	251.2	202.8	168.6	146.8	137.2	136.5
37.5°	3713.2	3016.9	1081.4	331.8	273.1	215.1	170.0	139.3	123.6	116.1	115.4
40°	3708.4	2933.6	841.8	301.8	244.4	183.0	142.0	118.1	103.8	95.6	94.9
42.5°	3770.6	2885.8	645.8	276.5	215.1	155.0	120.8	101.0	86.0	77.8	77.1
45°	3933.7	2900.8	497.0	254.0	185.7	131.1	102.4	84.0	70.3	64.2	62.8
47.5°	4231.4	3004.6	395.3	231.4	157.7	111.3	87.4	69.6	58.0	51.9	51.2
50°	4761.2	3248.3	330.4	206.9	131.8	94.9	72.4	56.7	47.1	41.6	41.0
52.5°	5464.3	3682.5	294.9	183.0	109.2	80.6	59.4	45.1	36.9	32.8	32.1
55°	6239.9	4208.2	271.7	157.0	89.4	66.9	47.1	35.5	28.7	25.3	23.9
57.5°	6997.0	4663.5	249.9	131.8	74.4	54.6	37.5	28.0	22.5	19.1	18.4
60°	7692.7	5082.0	224.6	105.8	60.8	43.0	29.4	21.8	17.8	14.3	14.3
62.5°	8437.5	5405.6	189.8	82.6	49.8	32.8	23.9	19.8	14.3	12.3	11.6
65°	9226.7	5645.9	148.8	64.2	38.9	24.6	19.8	20.5	11.6	8.9	8.2
67.5°	9809.7	5598.1	109.9	50.5	30.0	19.1	19.1	21.8	10.2	6.8	6.1
69°	9681.4	5209.7	92.2	43.7	25.9	16.4	17.8	21.8	9.6	6.1	5.5
70°	9309.3	4779.6	81.2	38.9	23.2	15.0	17.1	21.2	8.9	6.1	5.5
72.5°	7752.8	3599.9	63.5	29.4	18.4	12.3	14.3	18.4	8.9	6.1	4.8
75°	5831.6	2304.1	48.5	21.2	13.7	9.6	10.9	13.7	8.9	5.5	4.8
77.5°	3173.2	830.8	34.8	14.3	9.6	7.5	7.5	10.2	8.2	4.1	2.7
80°	815.8	208.9	21.8	9.6	7.5	5.5	4.8	6.8	4.8	0.7	0.0
82.5°	201.4	47.1	11.6	6.8	5.5	2.0	2.0	3.4	2.0	0.0	0.0
85°	110.6	23.2	7.5	4.8	2.7	0.0	0.0	0.7	0.0	0.0	0.0
87.5°	56.7	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)