

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: P323968

Luminaire Tested: **GAN-SA4C-827-U-SL4-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323968
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-25)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA4C-827-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17023 lumens
Efficiency: N/A
Efficacy: 75.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

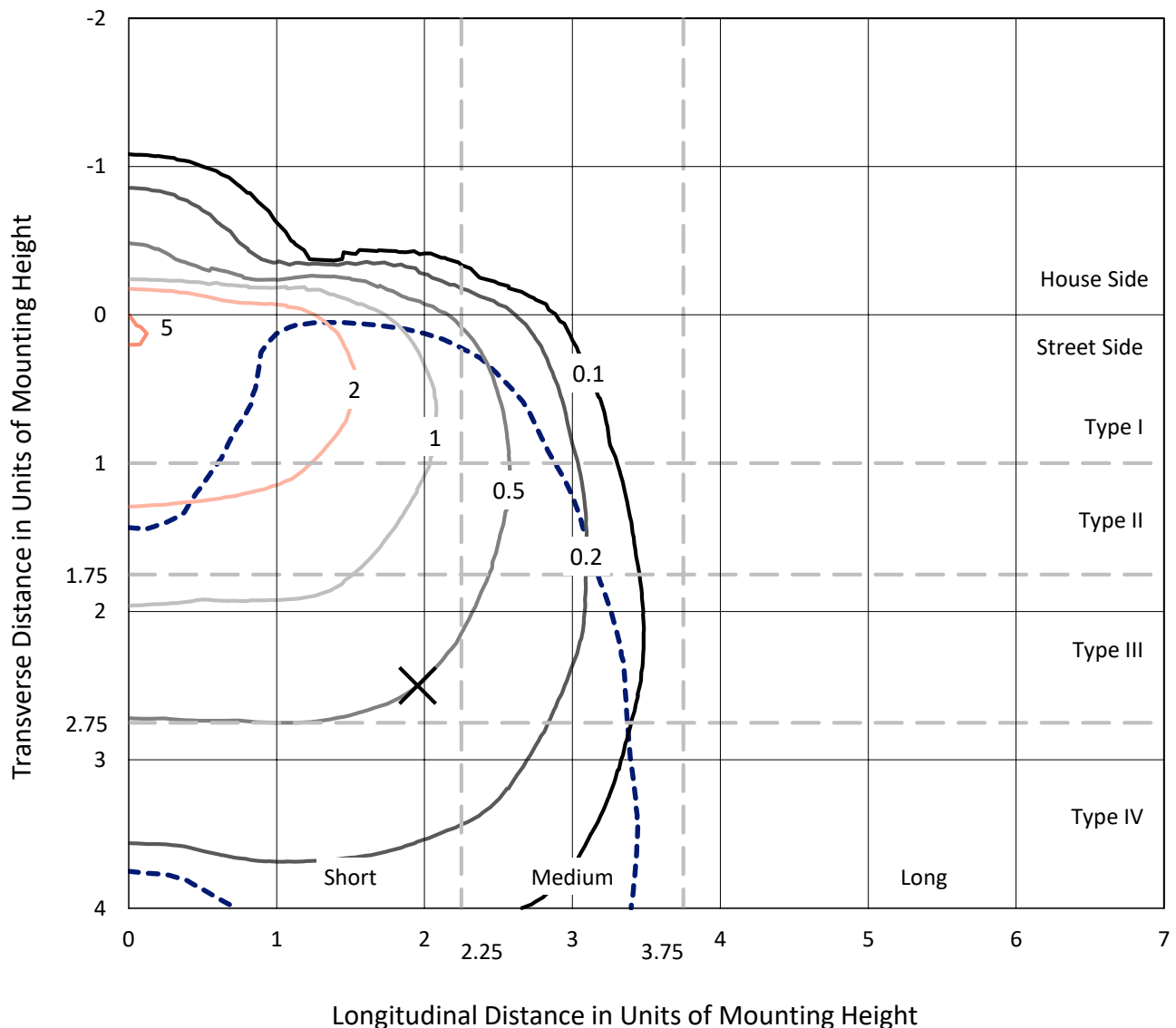
Input Watts (W): 225
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

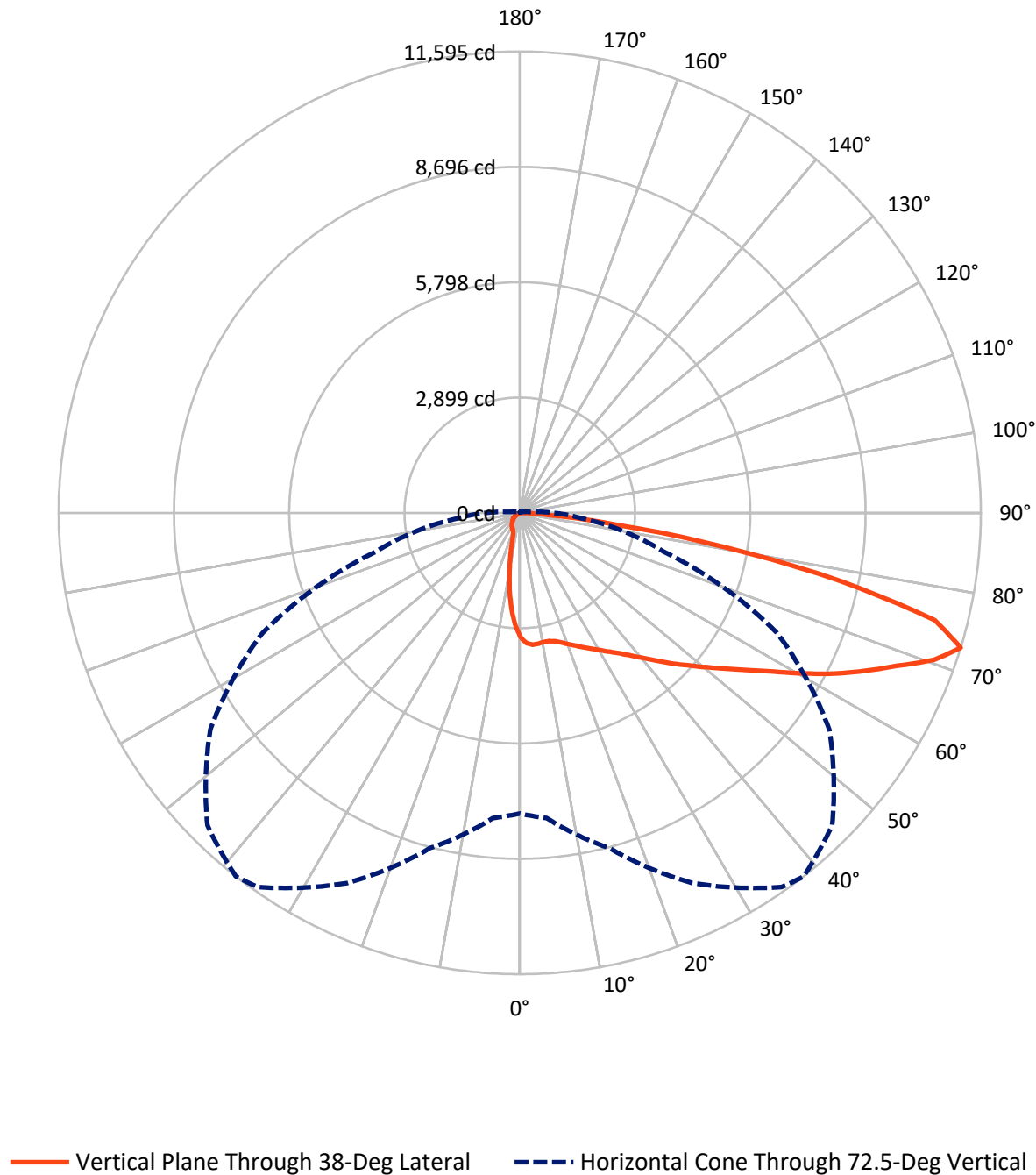
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 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	1432.5	0.0	1432.5
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	15590.4	0.0	15590.4
	% Fixture	91.6	0.0	91.6
Total	Lumens	17023.0	0.0	17023.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	266.8	1.6
10°-20°	652.3	3.8
20°-30°	1037.5	6.1
30°-40°	1559.8	9.2
40°-50°	2379.6	14.0
50°-60°	3363.1	19.8
60°-70°	4218.5	24.8
70°-80°	3154.3	18.5
80°-90°	391.1	2.3
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°	17023.0	100.0
0°-180°	17023.0	100.0

Coefficient of Utilization



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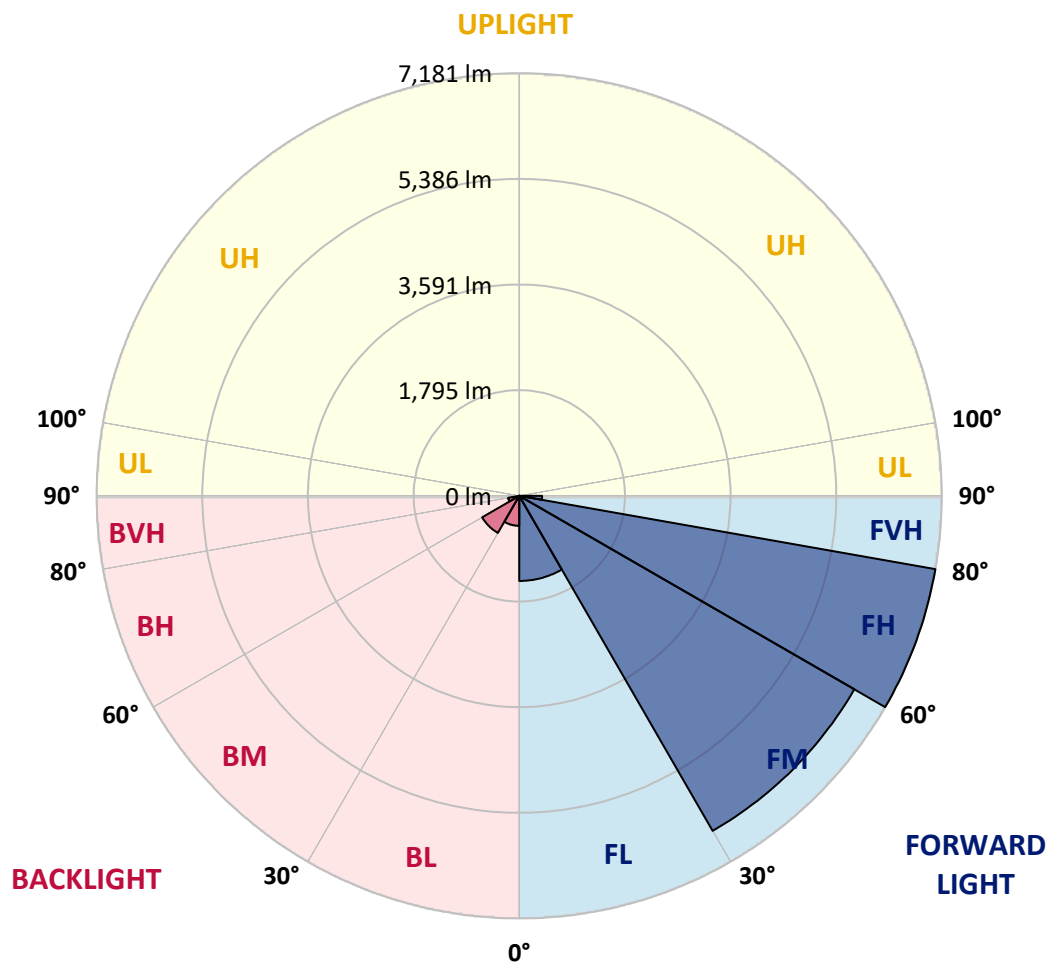
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1446.5	8.5			
FM	(30°-60°)	6575.0	38.6			
FH	(60°-80°)	7181.4	42.2			G3/7500
FVH	(80°-90°)	387.5	2.3			G3/500
BL	(0°-30°)	510.1	3.0	B2/1000		
BM	(30°-60°)	727.5	4.3	B1/1000		
BH	(60°-80°)	191.4	1.1	B1/500		G1/500
BVH	(80°-90°)	3.6	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	3130.5	3130.5	3130.5	3130.5	3130.5	3130.5	3130.5	3130.5	3130.5	3130.5	3130.5
2.5°	3322.8	3323.5	3315.7	3303.0	3286.7	3278.2	3264.1	3241.5	3217.4	3174.3	3127.6
5°	3390.6	3390.6	3380.7	3363.8	3337.6	3329.8	3303.0	3266.9	3217.4	3147.4	3069.0
7.5°	3383.6	3385.0	3371.6	3353.9	3327.7	3320.6	3288.1	3247.8	3186.3	3101.5	3001.1
10°	3346.8	3350.3	3339.7	3331.3	3307.2	3299.4	3269.0	3228.7	3167.2	3076.7	2961.5
12.5°	3309.3	3312.9	3316.4	3324.2	3309.3	3306.5	3282.5	3248.5	3189.9	3095.8	2965.7
15°	3285.3	3292.4	3317.8	3348.2	3351.8	3348.9	3333.4	3301.6	3242.2	3144.6	2996.1
17.5°	3285.3	3296.6	3349.6	3407.6	3428.1	3430.2	3416.8	3372.3	3301.6	3196.9	3024.4
20°	3312.9	3328.4	3411.1	3493.2	3527.1	3527.1	3500.9	3438.7	3356.0	3244.3	3043.5
22.5°	3383.6	3404.1	3508.0	3602.7	3638.8	3631.0	3595.7	3505.2	3412.6	3298.0	3067.6
25°	3522.8	3538.4	3646.6	3742.0	3763.9	3746.2	3701.7	3585.8	3484.7	3370.8	3111.4
27.5°	3702.4	3704.5	3816.2	3896.8	3883.4	3871.4	3815.5	3686.9	3588.6	3474.8	3187.0
30°	3899.7	3899.7	3997.9	4059.4	4018.4	4008.5	3952.7	3809.2	3721.5	3616.2	3294.5
32.5°	4090.5	4099.0	4178.9	4217.8	4171.8	4161.9	4107.5	3964.0	3898.2	3831.8	3462.0
35°	4275.1	4281.4	4357.1	4378.3	4334.4	4337.3	4298.4	4176.8	4152.0	4143.6	3714.4
37.5°	4453.9	4455.3	4532.4	4545.8	4523.9	4548.0	4551.5	4444.0	4490.0	4558.6	4070.0
40°	4617.2	4618.7	4695.0	4729.6	4767.1	4798.2	4825.8	4768.5	4920.5	5079.6	4493.5
42.5°	4748.0	4762.9	4859.7	4925.5	5024.5	5083.8	5158.8	5155.9	5433.1	5672.0	5005.4
45°	4863.3	4888.7	5023.7	5139.0	5308.7	5403.4	5520.7	5612.7	6010.0	6331.6	5523.6
47.5°	5015.3	5039.3	5193.4	5382.2	5608.4	5732.8	5927.3	6125.9	6644.1	6979.2	6029.8
50°	5229.5	5218.9	5370.9	5641.6	5932.2	6095.5	6372.6	6670.3	7273.3	7543.4	6327.4
52.5°	5457.8	5453.6	5566.0	5923.7	6314.0	6504.9	6871.1	7233.0	7875.0	7932.2	6463.8
55°	5740.6	5710.2	5805.0	6245.4	6767.1	6972.2	7403.4	7790.1	8354.3	8151.4	6532.4
57.5°	6036.8	5986.6	6077.1	6603.8	7278.3	7520.8	7993.0	8333.1	8673.1	8301.3	6531.7
60°	6343.0	6283.6	6391.0	7052.0	7913.1	8193.8	8632.1	8700.0	8970.8	8376.9	6483.6
62.5°	6598.9	6563.5	6723.3	7531.4	8622.2	8898.0	9115.0	9033.7	9221.7	8435.6	6371.2
65°	6869.7	6871.8	7129.8	8090.6	9375.9	9561.8	9580.2	9466.4	9431.7	8423.6	5990.9
67.5°	7235.9	7269.8	7700.3	8849.9	10109.0	10252.5	10251.1	9935.1	9585.1	7945.7	5147.5
70°	7623.3	7703.2	8357.8	9718.7	10909.3	11054.9	10980.0	10233.4	9025.2	6425.0	3643.0
72.5°	7558.2	7696.8	8723.3	10266.7	11484.1	11595.1	11107.9	9500.3	7133.4	3734.2	1551.1
75°	5831.1	5991.6	7998.7	9723.7	10881.0	10781.3	9544.1	7392.8	3898.2	1042.1	349.2
77.5°	3080.3	3165.8	5283.9	7407.7	8484.4	8275.8	6723.3	4101.1	1188.4	258.0	156.9
80°	1613.3	1633.1	2302.6	4203.0	5236.5	5238.0	3984.5	1801.4	489.9	132.2	105.3
82.5°	863.9	880.9	1216.7	1942.1	2743.8	2487.1	1525.6	991.2	284.9	74.9	101.1
85°	207.8	211.4	690.0	887.3	1078.8	770.6	453.2	832.1	77.1	43.8	82.0
87.5°	79.9	81.3	255.9	383.9	275.0	178.2	212.1	310.4	9.9	17.0	12.7
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°	3130.5	3130.5	3130.5	3130.5	3130.5	3130.5	3130.5	3130.5	3130.5	3130.5	3130.5
2.5°	3099.4	3081.0	3035.7	2978.5	2927.6	2890.8	2835.7	2799.6	2775.6	2774.9	2765.7
5°	3020.9	2983.4	2885.9	2769.9	2664.6	2569.8	2458.1	2369.8	2304.0	2293.4	2270.8
7.5°	2936.8	2875.3	2725.4	2544.4	2367.7	2188.1	1979.5	1850.1	1739.2	1686.1	1680.5
10°	2885.2	2798.9	2586.1	2324.5	2047.4	1755.4	1482.5	1293.8	1157.3	1118.4	1089.4
12.5°	2874.5	2760.7	2478.6	2118.1	1722.2	1336.2	1034.3	833.5	724.6	690.0	680.8
15°	2885.2	2743.1	2388.2	1913.8	1392.7	948.0	694.2	577.6	536.6	526.7	526.0
17.5°	2891.5	2721.8	2285.6	1686.8	1073.2	677.3	531.6	497.7	491.3	490.6	492.1
20°	2890.8	2689.3	2163.3	1433.7	798.2	532.4	480.7	473.7	472.3	473.0	472.3
22.5°	2885.9	2651.1	2029.0	1172.9	603.0	475.8	458.8	454.6	453.9	453.9	453.9
25°	2895.1	2620.7	1881.3	923.3	497.0	449.6	439.0	435.5	434.8	434.8	433.4
27.5°	2928.3	2603.8	1719.4	710.5	448.9	426.3	417.8	417.1	415.0	414.3	415.7
30°	2982.0	2603.8	1541.9	552.9	419.9	402.3	395.9	394.5	393.8	393.1	393.8
32.5°	3076.7	2623.6	1348.2	459.5	392.4	375.4	371.2	373.3	371.2	371.2	371.2
35°	3247.8	2683.0	1145.3	400.9	363.4	349.2	345.0	347.8	346.4	346.4	345.7
37.5°	3497.4	2793.2	941.0	365.5	337.9	323.1	317.4	321.7	320.3	320.3	319.6
40°	3801.4	2953.7	746.6	338.6	313.2	297.6	292.7	294.8	291.3	291.3	292.7
42.5°	4176.8	3157.3	576.9	312.5	288.4	273.6	270.8	268.6	262.3	258.8	259.5
45°	4593.9	3369.4	449.6	287.0	265.1	253.1	248.9	243.2	232.6	225.5	226.2
47.5°	4966.5	3532.7	365.5	262.3	243.9	234.7	228.4	217.7	202.2	193.7	194.4
50°	5162.3	3557.5	311.1	237.5	224.1	214.9	205.7	189.5	171.1	161.9	161.2
52.5°	5212.5	3441.5	270.8	214.9	204.3	193.7	181.7	159.8	139.3	129.4	128.0
55°	5230.9	3264.8	234.7	193.7	183.1	171.1	155.5	130.8	111.7	101.8	101.1
57.5°	5170.1	3001.1	206.4	174.6	161.9	147.1	128.0	104.6	86.3	78.5	78.5
60°	5035.1	2644.1	184.5	154.1	140.0	123.0	103.2	81.3	64.3	58.0	58.0
62.5°	4765.7	2181.7	164.0	132.9	119.5	101.8	83.4	61.5	45.2	41.7	42.4
65°	4257.4	1655.0	143.5	113.8	101.8	84.1	65.0	43.8	30.4	30.4	31.8
67.5°	3471.9	1149.5	122.3	96.9	87.7	68.6	49.5	30.4	21.2	24.0	26.9
70°	2298.4	644.8	104.6	79.9	74.9	54.4	36.8	20.5	17.0	22.6	27.6
72.5°	867.5	251.0	87.7	64.3	65.0	41.7	26.2	15.6	15.6	24.7	32.5
75°	241.8	123.0	62.9	47.4	50.9	30.4	19.1	13.4	14.8	28.3	38.2
77.5°	142.1	90.5	41.0	27.6	34.6	21.2	12.7	10.6	12.7	24.0	36.8
80°	114.5	48.1	24.0	14.1	19.1	12.0	8.5	6.4	3.5	9.2	19.1
82.5°	114.5	29.0	11.3	9.9	9.9	6.4	4.2	2.8	0.7	0.0	4.9
85°	77.1	12.0	7.1	6.4	4.9	2.1	1.4	0.7	0.0	0.0	0.0
87.5°	12.7	4.9	2.8	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)