

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: P322802

Luminaire Tested: **GAN-SA8B-727-U-T4W-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322802
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-SA8B-727-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 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: 27761 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 - G5

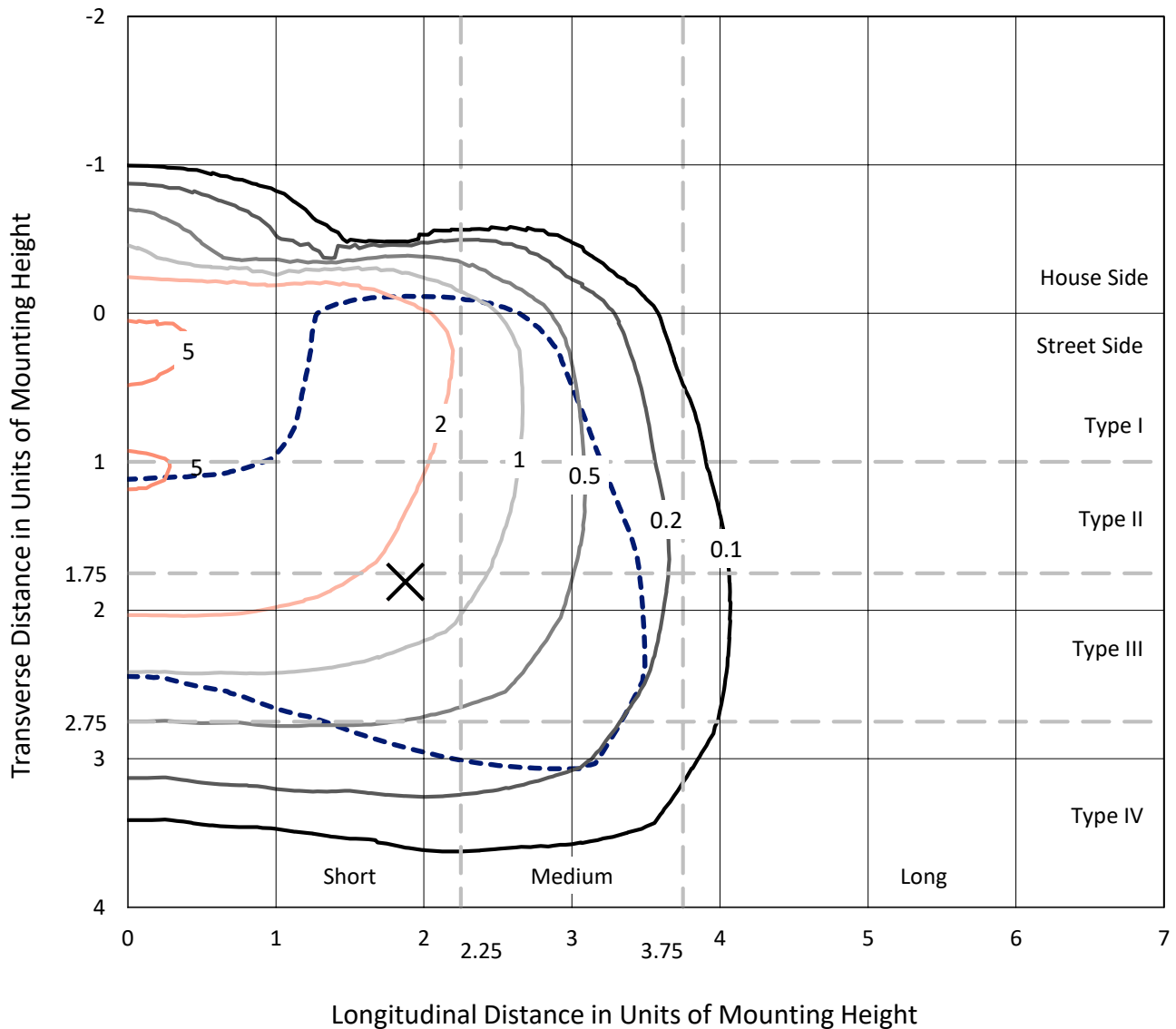
Input Watts (W): 334
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P322802
 CATALOG NUMBER: GAN-SA8B-727-U-T4W-HSS

Iso-Footcandle Lines of Horizontal Illumination

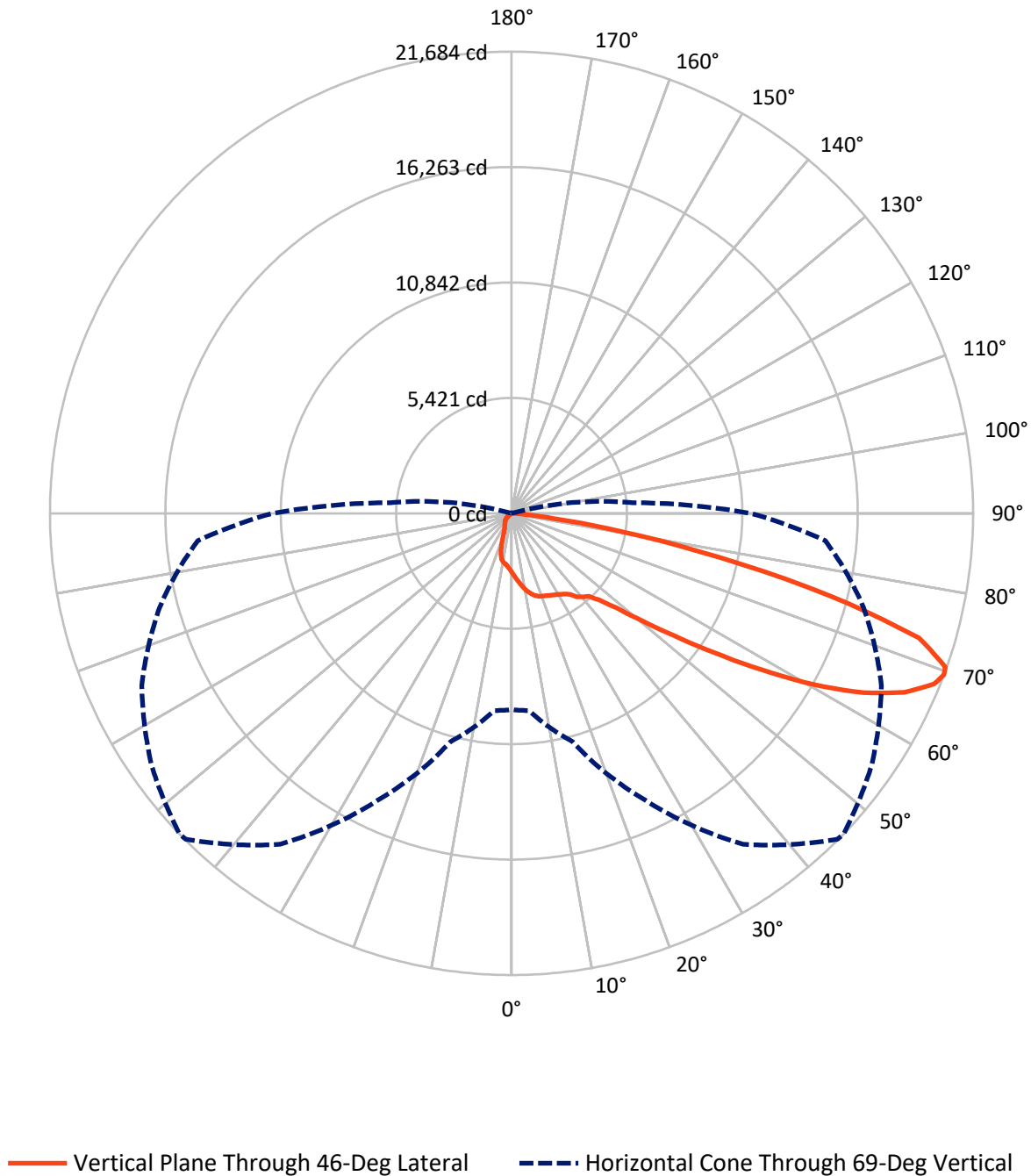
✕ Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P322802
CATALOG NUMBER: GAN-SA8B-727-U-T4W-HSS

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2849.0	0.0	2849.0
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	24912.0	0.0	24912.0
	% Fixture	89.7	0.0	89.7
Total	Lumens	27761.0	0.0	27761.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	276.9	1.0
10°-20°	839.9	3.0
20°-30°	1320.9	4.8
30°-40°	1894.2	6.8
40°-50°	3273.9	11.8
50°-60°	6467.9	23.3
60°-70°	9039.5	32.6
70°-80°	4367.0	15.7
80°-90°	280.7	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°	27761.0	100.0
0°-180°	27761.0	100.0

Coefficient of Utilization



REPORT NUMBER: P322802

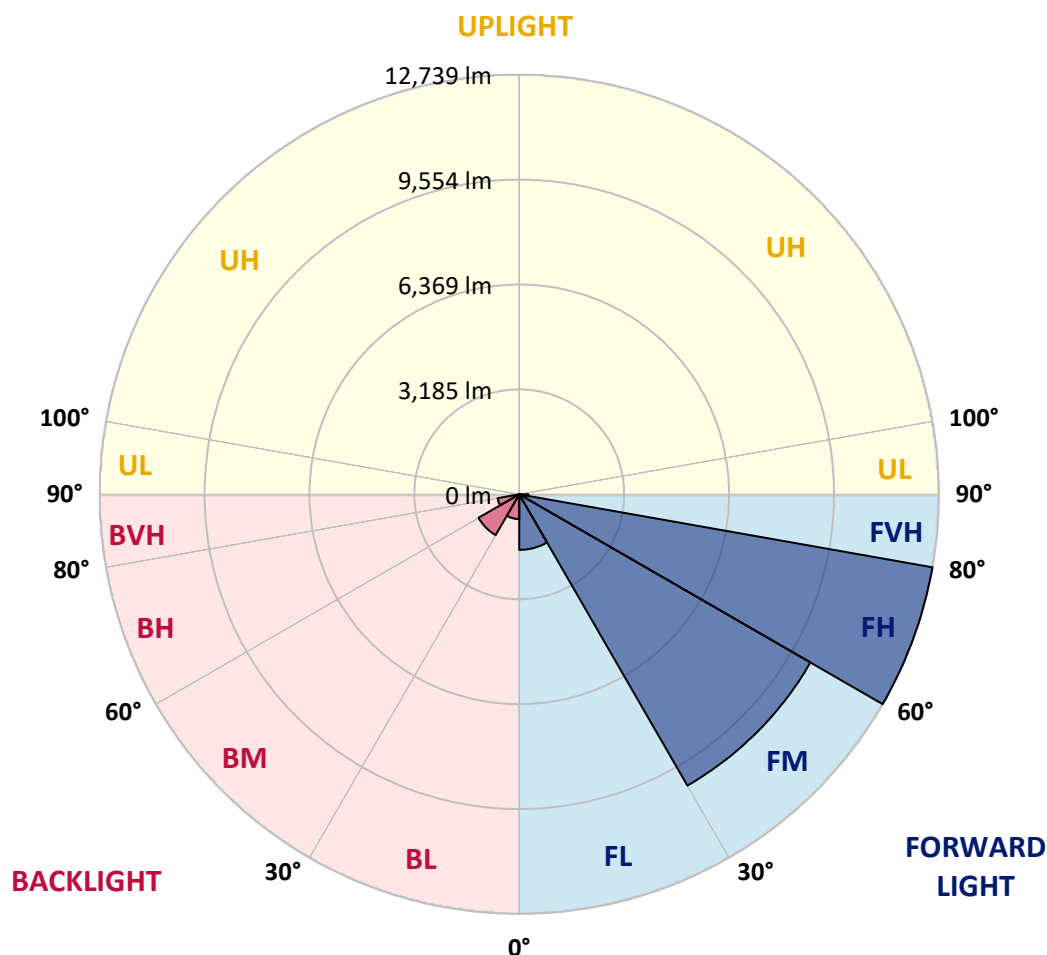
CATALOG NUMBER: GAN-SA8B-727-U-T4W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1686.8	6.1			
FM	(30°-60°)	10208.3	36.8			
FH	(60°-80°)	12738.5	45.9			G5
FVH	(80°-90°)	278.3	1.0			G3/500
BL	(0°-30°)	750.9	2.7	B2/1000		
BM	(30°-60°)	1427.7	5.1	B2/2500		
BH	(60°-80°)	668.0	2.4	B2/1000		G2/1000
BVH	(80°-90°)	2.4	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-G5

Type IV Short





REPORT NUMBER: P322802

CATALOG NUMBER: GAN-SA8B-727-U-T4W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	2781.5	2781.5	2781.5	2781.5	2781.5	2781.5	2781.5	2781.5	2781.5	2781.5	2781.5
2.5°	3090.0	3086.1	3067.9	3060.1	3015.8	2989.8	2979.4	2946.9	2900.0	2853.1	2801.1
5°	3441.5	3440.2	3406.3	3373.8	3290.5	3212.4	3198.1	3122.6	3017.1	2918.2	2819.3
7.5°	3800.7	3783.8	3749.9	3687.5	3566.4	3441.5	3429.8	3323.0	3173.3	3030.2	2888.3
10°	4105.3	4094.9	4050.6	3955.6	3813.7	3671.9	3657.5	3526.1	3356.9	3181.1	3000.2
12.5°	4342.2	4334.4	4275.8	4157.4	4006.4	3859.3	3839.8	3722.6	3541.7	3345.1	3131.7
15°	4486.7	4482.8	4411.2	4284.9	4136.5	4009.0	3992.0	3889.2	3721.3	3515.7	3274.9
17.5°	4520.5	4521.8	4447.6	4320.1	4197.7	4106.6	4093.6	4015.5	3874.9	3670.6	3418.0
20°	4445.0	4460.6	4394.2	4283.6	4208.1	4160.0	4149.5	4102.7	3984.2	3791.6	3532.6
22.5°	4338.3	4346.1	4300.5	4226.3	4195.1	4204.2	4199.0	4173.0	4072.7	3895.7	3645.8
25°	4273.2	4273.2	4245.9	4183.4	4204.2	4260.2	4261.5	4256.3	4176.9	4023.3	3783.8
27.5°	4270.6	4262.8	4231.5	4184.7	4242.0	4327.9	4333.1	4368.2	4318.8	4178.2	3955.6
30°	4374.7	4365.6	4299.2	4238.1	4310.9	4403.4	4416.4	4493.2	4468.4	4346.1	4146.9
32.5°	4618.1	4585.6	4438.5	4338.3	4392.9	4503.6	4520.5	4642.9	4681.9	4553.0	4331.8
35°	4951.3	4848.5	4636.3	4528.3	4533.5	4649.4	4665.0	4844.6	4960.4	4743.1	4474.9
37.5°	5410.8	5360.0	5015.1	4726.2	4749.6	4925.3	4970.9	5166.1	5133.6	4847.2	4637.6
40°	6418.3	6338.9	5971.8	5280.6	4956.5	5149.2	5163.5	5267.6	5270.2	5082.8	4976.1
42.5°	7790.2	7757.6	7371.0	6286.8	5363.9	5298.9	5324.9	5500.6	5697.2	5580.0	5574.8
45°	9309.1	9292.2	8882.2	7622.2	6187.9	5789.6	5822.1	6057.7	6433.9	6459.9	6625.2
47.5°	10531.4	10523.5	10288.0	9112.6	7449.1	6621.3	6631.7	6881.6	7542.9	7869.6	8133.8
50°	11645.5	11683.3	11497.2	10725.3	9167.3	7924.2	7899.5	8066.1	9128.2	9663.2	9991.2
52.5°	13194.5	13247.8	12725.9	12230.0	10970.0	9540.8	9521.3	9695.7	11033.8	11434.7	11493.2
55°	14562.5	14471.3	14058.7	13915.6	13168.4	11537.5	11532.3	11685.9	12876.9	13047.4	13155.4
57.5°	15166.4	15131.3	15330.4	15658.4	15471.0	13897.3	13885.6	13768.5	14526.0	14544.2	14876.1
60°	15547.8	15590.7	16201.2	17212.5	17679.8	16436.8	16361.3	15646.7	16101.0	16060.6	16416.0
62.5°	15261.4	15346.0	16444.6	18130.2	19332.9	18653.4	18546.7	17367.4	17446.8	17307.6	17638.2
65°	13741.1	13872.6	15672.7	17957.1	20152.9	20385.9	20277.8	18886.4	18515.5	18286.4	18102.8
67.5°	11157.4	11235.5	13115.1	16451.1	19783.2	21419.4	21397.2	20218.0	19322.5	18121.1	16697.1
69°	9220.6	9297.4	11106.7	14865.7	18969.7	21640.6	21683.6	20644.9	19168.9	17116.2	14794.1
70°	7809.7	7891.7	9577.3	13506.8	18026.0	21537.8	21614.6	20604.5	18728.9	15952.6	13124.2
72.5°	4096.2	4166.5	5896.3	9305.2	14695.2	19776.7	20009.7	18863.0	15875.8	11585.7	7760.2
75°	1287.3	1327.6	2302.6	4864.1	10061.5	15377.3	15430.6	14796.7	11273.3	6372.7	3231.9
77.5°	490.7	479.0	766.7	1792.3	5086.7	9682.7	10009.4	9246.7	5915.8	2253.1	745.8
80°	264.2	265.5	398.3	741.9	2176.3	4976.1	5252.0	4481.5	2102.1	702.9	171.8
82.5°	114.5	119.7	223.9	393.1	999.6	1835.3	1973.2	1642.6	803.1	472.5	63.8
85°	24.7	27.3	108.0	213.5	407.4	515.4	540.2	532.4	511.5	367.1	24.7
87.5°	0.0	0.0	48.2	76.8	102.8	117.1	102.8	134.1	282.5	247.3	13.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P322802

CATALOG NUMBER: GAN-SA8B-727-U-T4W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2781.5	2781.5	2781.5	2781.5	2781.5	2781.5	2781.5	2781.5	2781.5	2781.5	2781.5
2.5°	2784.2	2760.7	2720.4	2676.1	2644.9	2612.3	2586.3	2574.6	2561.6	2552.5	2564.2
5°	2778.9	2733.4	2655.3	2579.8	2525.1	2480.9	2444.4	2430.1	2415.8	2405.4	2404.1
7.5°	2824.5	2760.7	2641.0	2530.3	2445.7	2385.9	2336.4	2315.6	2298.6	2290.8	2284.3
10°	2911.7	2829.7	2669.6	2525.1	2415.8	2314.3	2207.5	2125.5	2072.2	2047.4	2038.3
12.5°	3025.0	2922.1	2724.3	2552.5	2393.7	2198.4	1971.9	1776.7	1650.4	1608.8	1584.1
15°	3157.7	3030.2	2795.9	2587.6	2313.0	1956.3	1572.3	1317.2	1200.1	1176.7	1150.6
17.5°	3285.3	3144.7	2881.8	2594.1	2135.9	1563.2	1151.9	978.8	933.3	948.9	952.8
20°	3397.2	3257.9	2966.4	2536.8	1814.4	1172.8	891.6	848.7	865.6	895.5	900.7
22.5°	3510.5	3367.3	3044.5	2385.9	1403.1	890.3	803.1	813.5	830.4	860.4	865.6
25°	3648.4	3500.0	3117.4	2108.6	1053.0	757.5	762.7	778.4	795.3	822.6	825.2
27.5°	3807.2	3667.9	3165.5	1748.1	781.0	696.4	713.3	736.7	753.6	779.7	784.9
30°	4018.1	3889.2	3181.1	1374.5	654.7	641.7	649.5	678.1	702.9	726.3	730.2
32.5°	4215.9	4107.9	3129.1	1037.4	606.6	590.9	590.9	607.9	636.5	658.6	663.8
35°	4398.2	4327.9	2962.5	758.8	570.1	544.1	531.1	531.1	549.3	567.5	572.7
37.5°	4639.0	4636.3	2693.0	605.3	535.0	505.0	477.7	456.9	450.4	454.3	456.9
40°	5051.6	5055.5	2341.6	542.8	505.0	464.7	423.0	385.3	350.1	338.4	337.1
42.5°	5695.9	5637.3	1973.2	512.8	479.0	423.0	360.5	309.8	255.1	238.2	236.9
45°	6718.9	6371.4	1582.8	485.5	451.7	376.2	298.1	229.1	184.8	171.8	171.8
47.5°	8209.3	7335.9	1226.1	455.6	415.2	322.8	225.2	165.3	135.4	128.9	130.2
50°	9750.4	8280.9	939.8	417.8	371.0	266.8	166.6	119.7	102.8	102.8	104.1
52.5°	11117.1	8973.3	732.8	377.5	316.3	209.6	126.3	93.7	85.9	84.6	85.9
55°	12396.6	9419.8	561.0	330.6	251.2	156.2	96.3	76.8	71.6	69.0	67.7
57.5°	13630.5	9641.1	420.4	266.8	182.2	113.2	76.8	65.1	59.9	56.0	54.7
60°	14451.8	9461.4	289.0	196.5	126.3	82.0	63.8	56.0	49.5	45.6	44.3
62.5°	14915.2	8970.7	186.1	141.9	89.8	61.2	50.8	46.9	37.7	33.8	33.8
65°	14727.8	8161.1	130.2	101.5	65.1	45.6	37.7	37.7	27.3	22.1	20.8
67.5°	13051.3	6894.6	98.9	75.5	46.9	33.8	28.6	32.5	16.9	10.4	10.4
69°	11229.0	5714.1	84.6	62.5	39.0	27.3	24.7	29.9	11.7	7.8	6.5
70°	9759.5	4929.2	76.8	54.7	32.5	23.4	22.1	28.6	11.7	6.5	5.2
72.5°	5839.0	2749.0	58.6	39.0	20.8	18.2	18.2	32.5	11.7	6.5	5.2
75°	2359.8	968.4	43.0	27.3	15.6	15.6	22.1	41.7	10.4	5.2	3.9
77.5°	535.0	212.2	24.7	16.9	10.4	15.6	26.0	32.5	6.5	2.6	0.0
80°	130.2	52.1	15.6	10.4	6.5	11.7	19.5	18.2	1.3	0.0	0.0
82.5°	43.0	18.2	6.5	5.2	1.3	3.9	9.1	5.2	0.0	0.0	0.0
85°	18.2	10.4	2.6	1.3	0.0	0.0	1.3	0.0	0.0	0.0	0.0
87.5°	11.7	3.9	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)