

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: P322961

Luminaire Tested: **GAN-SA7B-760-U-T4W-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322961
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-760-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 5700K, 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: 29296 lumens
Efficiency: N/A
Efficacy: 99.3 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): 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

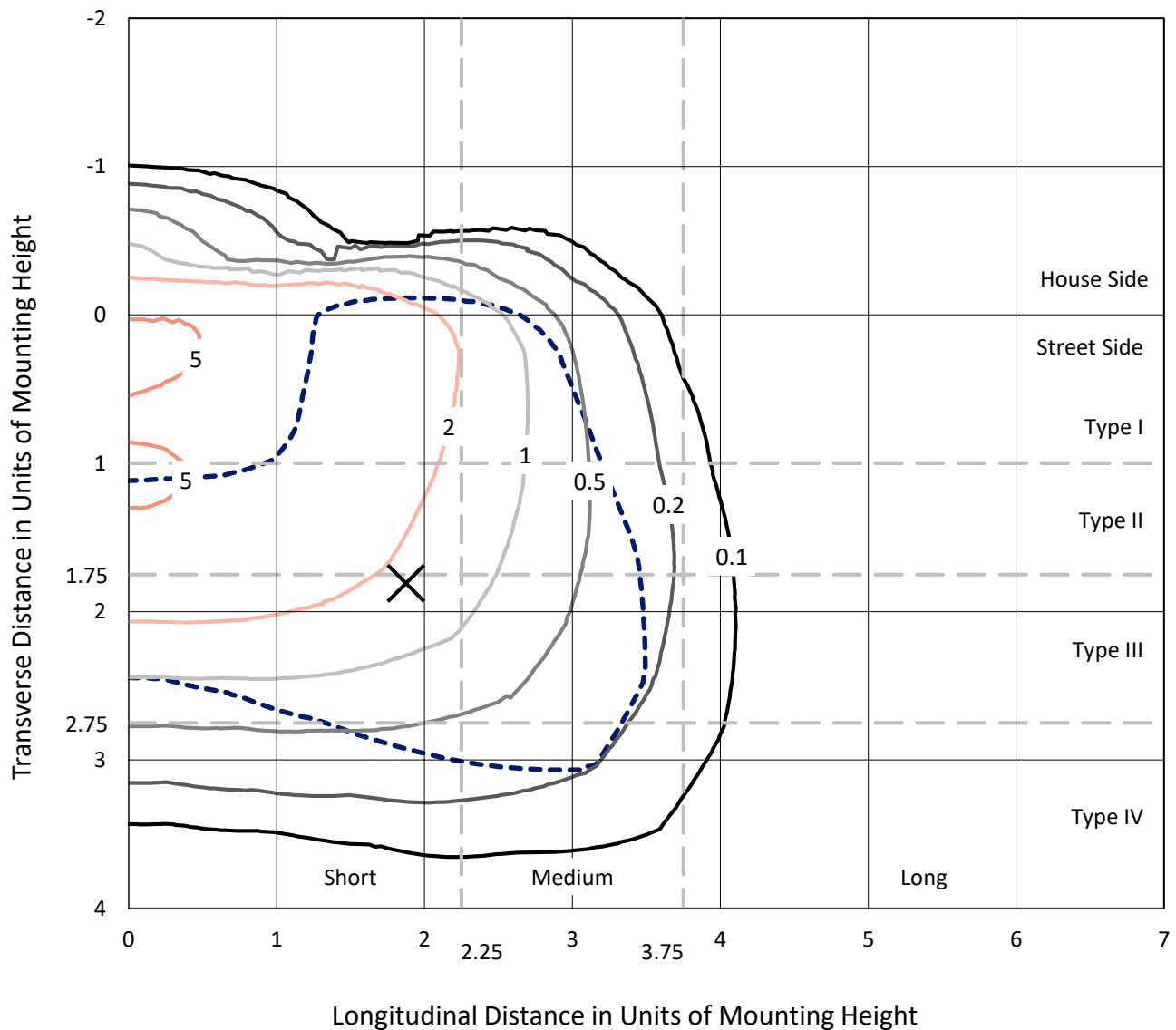


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Iso-Footcandle Lines of Horizontal Illumination

✗ Max cd

--- 1/2 Max cd

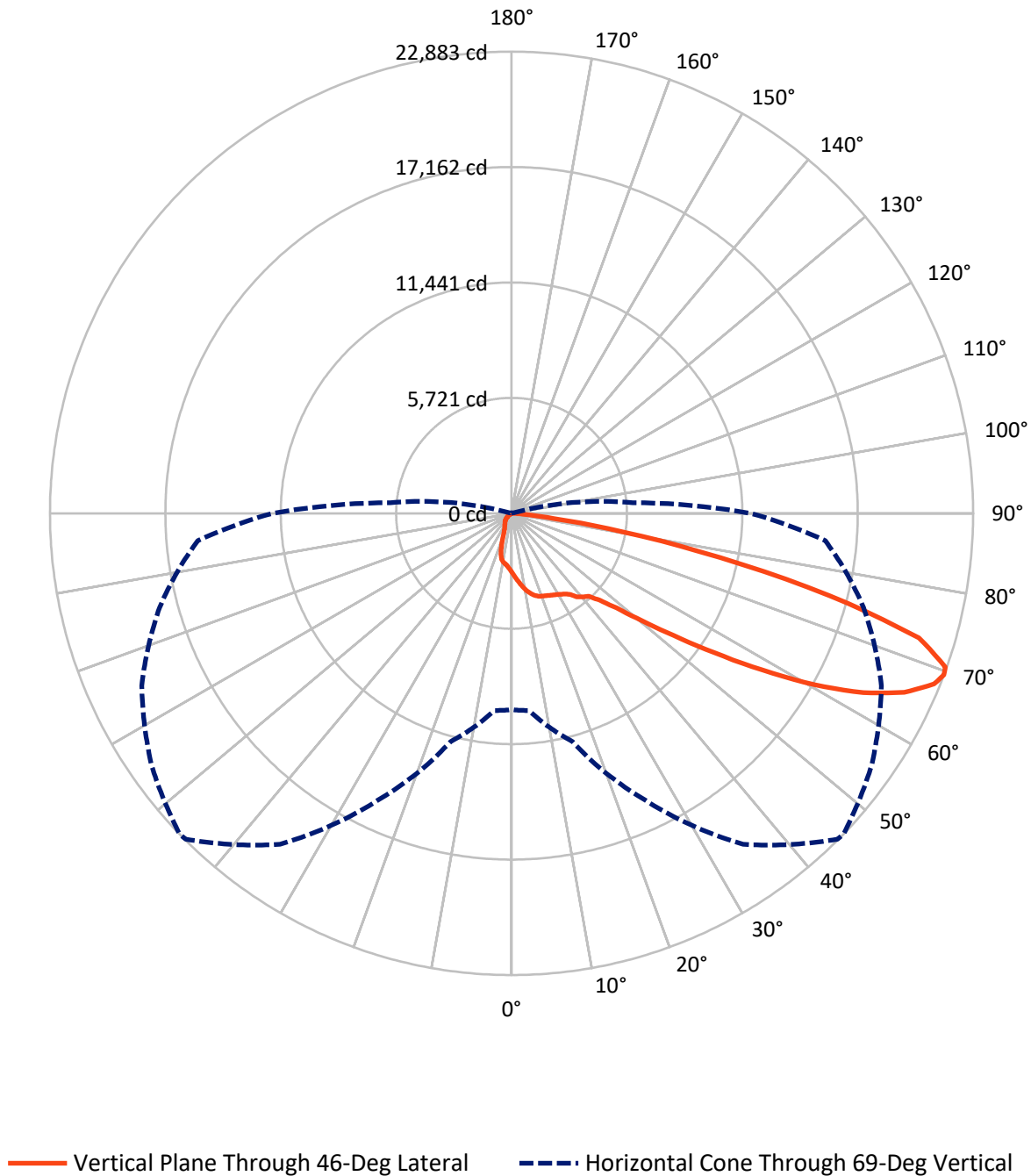


Based on 25 foot mounting height. Maximum calculated value = 6.8 fc

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	3006.6	0.0	3006.6
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	26289.4	0.0	26289.4
	% Fixture	89.7	0.0	89.7
Total	Lumens	29296.0	0.0	29296.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	292.2	1.0
10°-20°	886.4	3.0
20°-30°	1394.0	4.8
30°-40°	1999.0	6.8
40°-50°	3454.9	11.8
50°-60°	6825.6	23.3
60°-70°	9539.3	32.6
70°-80°	4608.5	15.7
80°-90°	296.2	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°	29296.0	100.0
0°-180°	29296.0	100.0

Coefficient of Utilization



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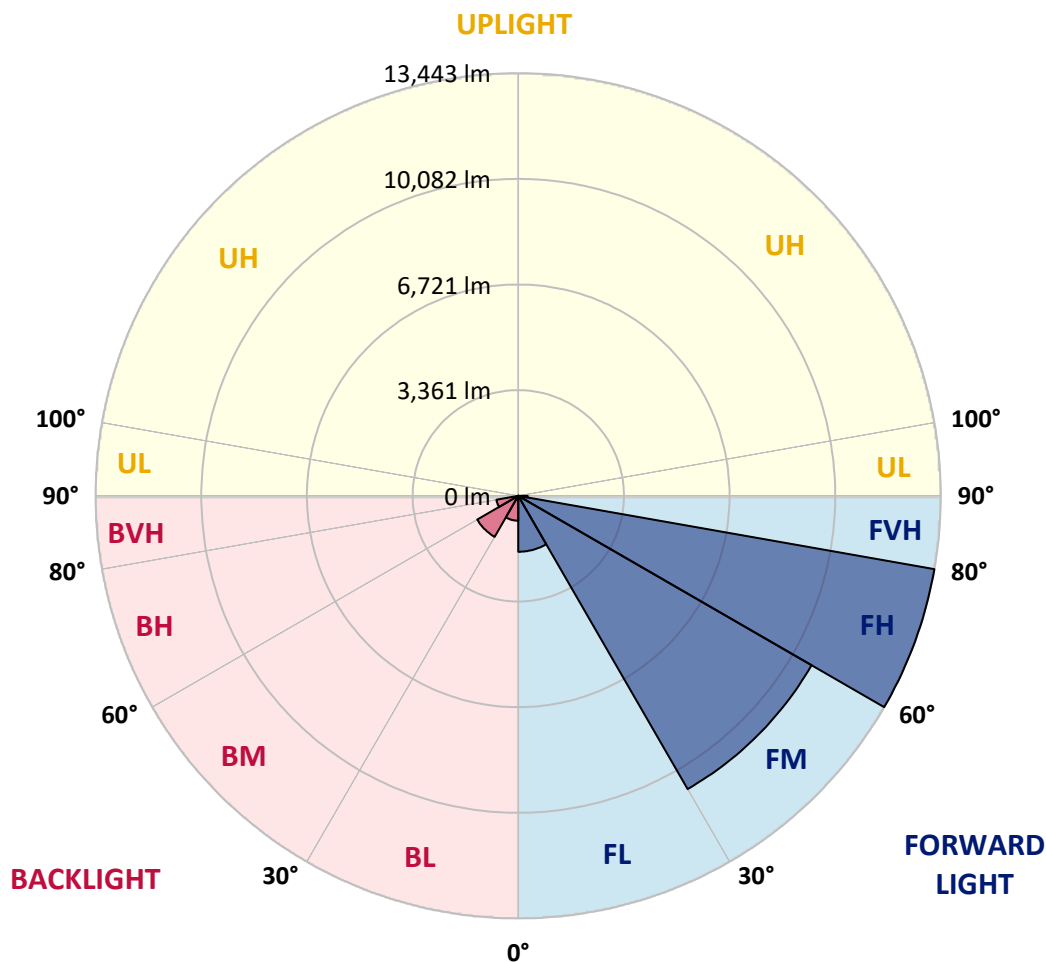
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1780.1	6.1			
FM	(30°-60°)	10772.8	36.8			
FH	(60°-80°)	13442.9	45.9			G5
FVH	(80°-90°)	293.7	1.0			G3/500
BL	(0°-30°)	792.4	2.7	B2/1000		
BM	(30°-60°)	1506.7	5.1	B2/2500		
BH	(60°-80°)	705.0	2.4	B2/1000		G2/1000
BVH	(80°-90°)	2.5	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	2935.3	2935.3	2935.3	2935.3	2935.3	2935.3	2935.3	2935.3	2935.3	2935.3	2935.3
2.5°	3260.9	3256.8	3237.5	3229.3	3182.6	3155.1	3144.1	3109.8	3060.3	3010.9	2956.0
5°	3631.8	3630.4	3594.7	3560.3	3472.4	3390.0	3374.9	3295.2	3184.0	3079.6	2975.2
7.5°	4010.9	3993.0	3957.3	3891.4	3763.6	3631.8	3619.4	3506.8	3348.8	3197.7	3048.0
10°	4332.3	4321.3	4274.6	4174.3	4024.6	3874.9	3859.8	3721.0	3542.5	3357.0	3166.1
12.5°	4582.3	4574.0	4512.2	4387.2	4227.9	4072.7	4052.1	3928.5	3737.5	3530.1	3304.8
15°	4734.7	4730.6	4655.1	4521.8	4365.3	4230.6	4212.8	4104.3	3927.1	3710.1	3455.9
17.5°	4770.5	4771.8	4693.5	4558.9	4429.8	4333.7	4319.9	4237.5	4089.2	3873.5	3607.0
20°	4690.8	4707.3	4637.2	4520.5	4440.8	4390.0	4379.0	4329.5	4204.5	4001.3	3727.9
22.5°	4578.2	4586.4	4538.3	4460.0	4427.1	4436.7	4431.2	4403.7	4297.9	4111.1	3847.4
25°	4509.5	4509.5	4480.6	4414.7	4436.7	4495.7	4497.1	4491.6	4407.8	4245.7	3993.0
27.5°	4506.7	4498.5	4465.5	4416.1	4476.5	4567.2	4572.7	4609.7	4557.6	4409.2	4174.3
30°	4616.6	4607.0	4536.9	4472.4	4549.3	4646.8	4660.6	4741.6	4715.5	4586.4	4376.2
32.5°	4873.5	4839.1	4683.9	4578.2	4635.8	4752.6	4770.5	4899.6	4940.8	4804.8	4571.3
35°	5225.1	5116.6	4892.7	4778.7	4784.2	4906.4	4922.9	5112.5	5234.7	5005.3	4722.4
37.5°	5710.0	5656.4	5292.4	4987.5	5012.2	5197.6	5245.7	5451.8	5417.4	5115.2	4894.1
40°	6773.1	6689.4	6302.0	5572.6	5230.6	5433.9	5449.0	5558.9	5561.6	5363.8	5251.2
42.5°	8220.9	8186.6	7778.6	6634.4	5660.5	5591.9	5619.3	5804.8	6012.2	5888.6	5883.1
45°	9823.9	9806.0	9373.3	8043.7	6530.0	6109.7	6144.0	6392.7	6789.6	6817.1	6991.5
47.5°	11113.7	11105.4	10856.8	9616.5	7861.0	6987.4	6998.4	7262.1	7959.9	8304.7	8583.5
50°	12289.5	12329.3	12132.9	11318.3	9674.2	8362.4	8336.3	8512.1	9632.9	10197.5	10543.6
52.5°	13924.0	13980.3	13429.5	12906.2	11576.6	10068.4	10047.8	10231.8	11643.9	12066.9	12128.7
55°	15367.7	15271.5	14836.1	14685.0	13896.6	12175.5	12170.0	12332.0	13588.9	13768.8	13882.8
57.5°	16005.0	15967.9	16178.1	16524.2	16326.4	14665.8	14653.4	14529.8	15329.2	15348.4	15698.7
60°	16407.5	16452.8	17097.0	18164.3	18657.4	17345.6	17266.0	16511.9	16991.2	16948.7	17323.6
62.5°	16105.3	16194.6	17353.9	19132.7	20401.8	19684.8	19572.2	18327.7	18411.5	18264.6	18613.4
65°	14500.9	14639.7	16539.3	18950.0	21267.2	21513.1	21399.1	19930.7	19539.2	19297.5	19103.8
67.5°	11774.4	11856.8	13840.2	17360.7	20877.1	22603.7	22580.4	21335.9	20390.9	19123.0	17620.3
69°	9730.5	9811.5	11720.8	15687.7	20018.6	22837.2	22882.5	21786.4	20228.8	18062.6	15612.2
70°	8241.5	8328.0	10106.8	14253.7	19022.8	22728.7	22809.7	21743.8	19764.5	16834.6	13849.9
72.5°	4322.7	4396.8	6222.3	9819.8	15507.8	20870.2	21116.1	19906.0	16753.6	12226.3	8189.3
75°	1358.5	1401.1	2429.9	5133.1	10617.8	16227.5	16283.8	15614.9	11896.6	6725.1	3410.6
77.5°	517.8	505.5	809.0	1891.4	5368.0	10218.1	10562.9	9757.9	6242.9	2377.7	787.1
80°	278.8	280.2	420.3	782.9	2296.6	5251.2	5542.4	4729.3	2218.3	741.7	181.3
82.5°	120.9	126.4	236.3	414.8	1054.9	1936.8	2082.4	1733.5	847.5	498.6	67.3
85°	26.1	28.8	114.0	225.3	429.9	543.9	570.0	561.8	539.8	387.4	26.1
87.5°	0.0	0.0	50.8	81.0	108.5	123.6	108.5	141.5	298.1	261.0	13.7
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°	2935.3	2935.3	2935.3	2935.3	2935.3	2935.3	2935.3	2935.3	2935.3	2935.3	2935.3
2.5°	2938.1	2913.4	2870.8	2824.1	2791.1	2756.8	2729.3	2716.9	2703.2	2693.6	2706.0
5°	2932.6	2884.5	2802.1	2722.4	2664.8	2618.1	2579.6	2564.5	2549.4	2538.4	2537.0
7.5°	2980.7	2913.4	2787.0	2670.2	2581.0	2517.8	2465.6	2443.6	2425.7	2417.5	2410.6
10°	3072.7	2986.2	2817.2	2664.8	2549.4	2442.2	2329.6	2243.1	2186.7	2160.6	2151.0
12.5°	3192.2	3083.7	2874.9	2693.6	2526.0	2320.0	2081.0	1874.9	1741.7	1697.8	1671.7
15°	3332.3	3197.7	2950.5	2730.7	2440.9	2064.5	1659.3	1390.1	1266.4	1241.7	1214.2
17.5°	3466.9	3318.6	3041.1	2737.6	2254.1	1649.7	1215.6	1032.9	984.9	1001.3	1005.5
20°	3585.1	3438.1	3130.4	2677.1	1914.8	1237.6	940.9	895.6	913.4	945.0	950.5
22.5°	3704.6	3553.5	3212.8	2517.8	1480.7	939.5	847.5	858.5	876.3	907.9	913.4
25°	3850.2	3693.6	3289.7	2225.2	1111.2	799.4	804.9	821.4	839.3	868.1	870.9
27.5°	4017.7	3870.8	3340.6	1844.7	824.2	734.9	752.7	777.4	795.3	822.8	828.3
30°	4240.3	4104.3	3357.0	1450.5	690.9	677.2	685.4	715.6	741.7	766.5	770.6
32.5°	4449.0	4335.0	3302.1	1094.7	640.1	623.6	623.6	641.5	671.7	695.0	700.5
35°	4641.3	4567.2	3126.3	800.8	601.6	574.2	560.4	560.4	579.7	598.9	604.4
37.5°	4895.5	4892.7	2841.9	638.7	564.5	533.0	504.1	482.1	475.3	479.4	482.1
40°	5330.9	5335.0	2471.1	572.8	533.0	490.4	446.4	406.6	369.5	357.1	355.8
42.5°	6010.8	5949.0	2082.4	541.2	505.5	446.4	380.5	326.9	269.2	251.4	250.0
45°	7090.4	6723.7	1670.3	512.3	476.6	397.0	314.6	241.8	195.0	181.3	181.3
47.5°	8663.2	7741.5	1293.9	480.8	438.2	340.6	237.6	174.4	142.9	136.0	137.4
50°	10289.5	8738.7	991.7	440.9	391.5	281.6	175.8	126.4	108.5	108.5	109.9
52.5°	11731.8	9469.5	773.3	398.3	333.8	221.1	133.2	98.9	90.7	89.3	90.7
55°	13082.0	9940.6	592.0	348.9	265.1	164.8	101.6	81.0	75.5	72.8	71.4
57.5°	14384.2	10174.1	443.7	281.6	192.3	119.5	81.0	68.7	63.2	59.1	57.7
60°	15250.9	9984.6	304.9	207.4	133.2	86.5	67.3	59.1	52.2	48.1	46.7
62.5°	15739.9	9466.7	196.4	149.7	94.8	64.6	53.6	49.4	39.8	35.7	35.7
65°	15542.1	8612.4	137.4	107.1	68.7	48.1	39.8	39.8	28.8	23.4	22.0
67.5°	13772.9	7275.9	104.4	79.7	49.4	35.7	30.2	34.3	17.9	11.0	11.0
69°	11849.9	6030.0	89.3	65.9	41.2	28.8	26.1	31.6	12.4	8.2	6.9
70°	10299.1	5201.8	81.0	57.7	34.3	24.7	23.4	30.2	12.4	6.9	5.5
72.5°	6161.9	2901.0	61.8	41.2	22.0	19.2	19.2	34.3	12.4	6.9	5.5
75°	2490.3	1021.9	45.3	28.8	16.5	16.5	23.4	44.0	11.0	5.5	4.1
77.5°	564.5	223.9	26.1	17.9	11.0	16.5	27.5	34.3	6.9	2.7	0.0
80°	137.4	54.9	16.5	11.0	6.9	12.4	20.6	19.2	1.4	0.0	0.0
82.5°	45.3	19.2	6.9	5.5	1.4	4.1	9.6	5.5	0.0	0.0	0.0
85°	19.2	11.0	2.7	1.4	0.0	0.0	1.4	0.0	0.0	0.0	0.0
87.5°	12.4	4.1	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)