

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: P322881

Luminaire Tested: **GAN-SA7B-740-U-T4W-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322881
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-740-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 4000K, 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: 29297 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

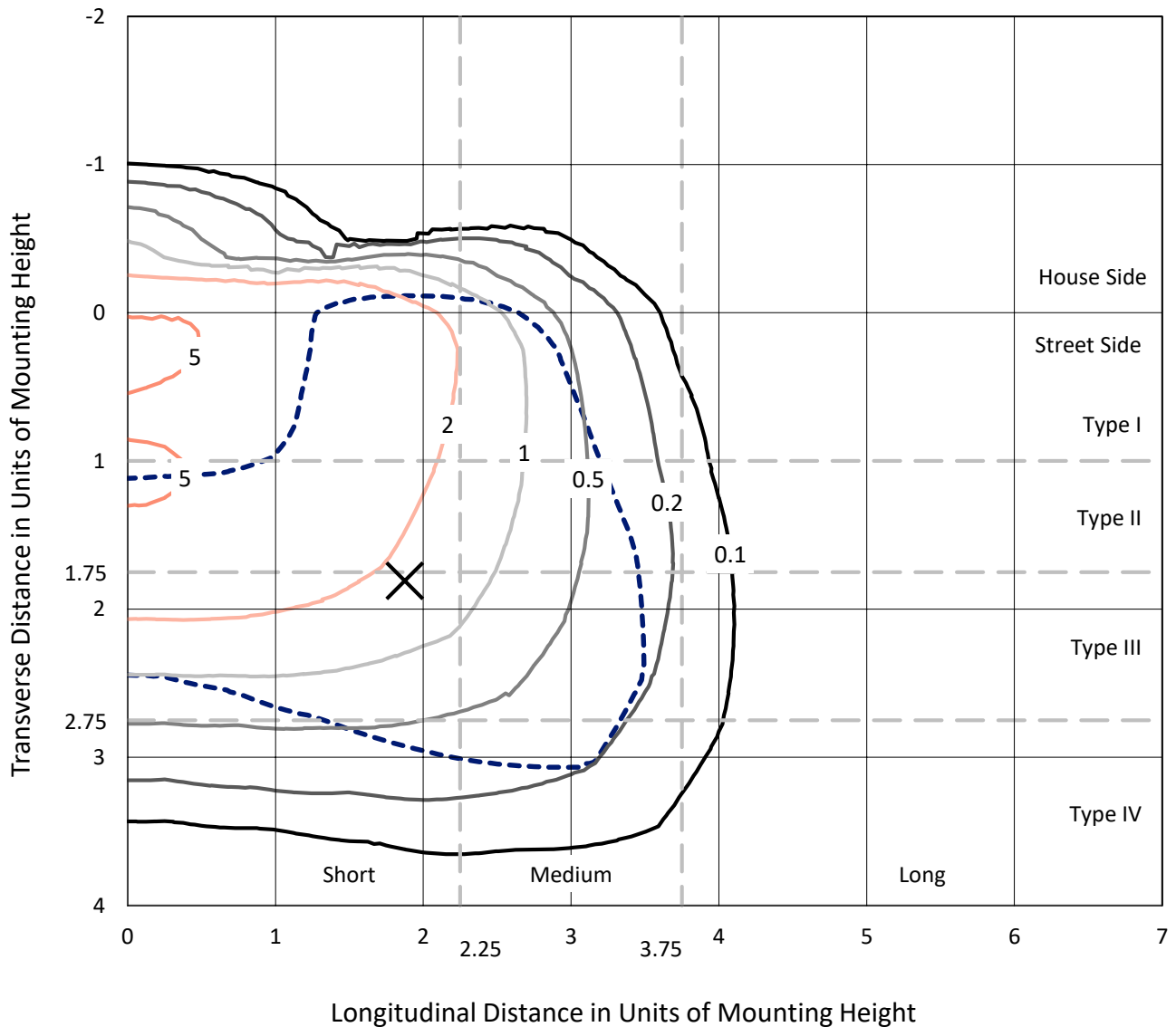
Input Watts (W): 295
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

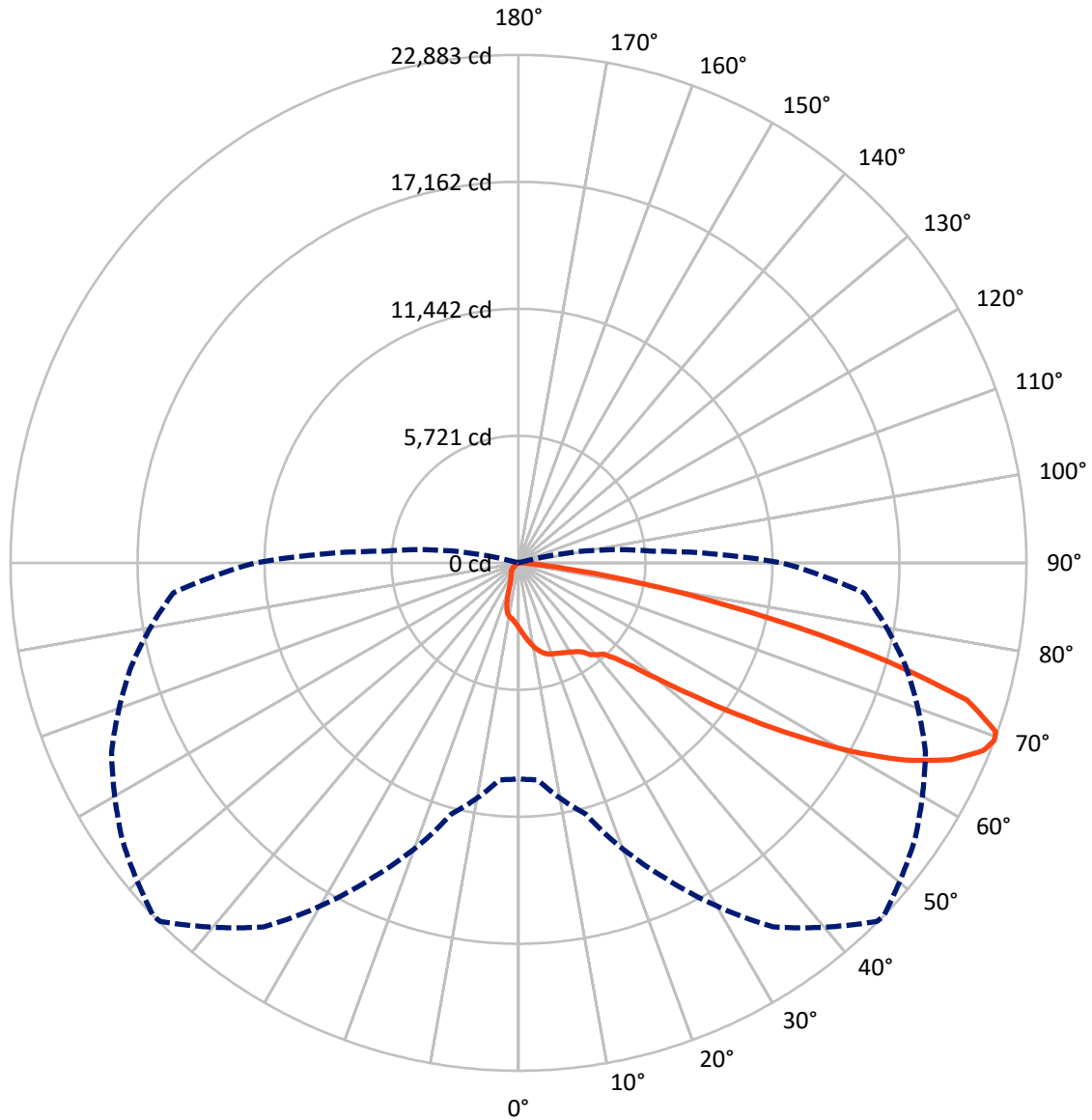
✕ Max cd
 - - - 1/2 Max cd



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



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3006.7	0.0	3006.7
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	26290.3	0.0	26290.3
	% Fixture	89.7	0.0	89.7
Total	Lumens	29297.0	0.0	29297.0
	% 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°	3455.1	11.8
50°-60°	6825.8	23.3
60°-70°	9539.6	32.6
70°-80°	4608.7	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°	29297.0	100.0
0°-180°	29297.0	100.0

Coefficient of Utilization



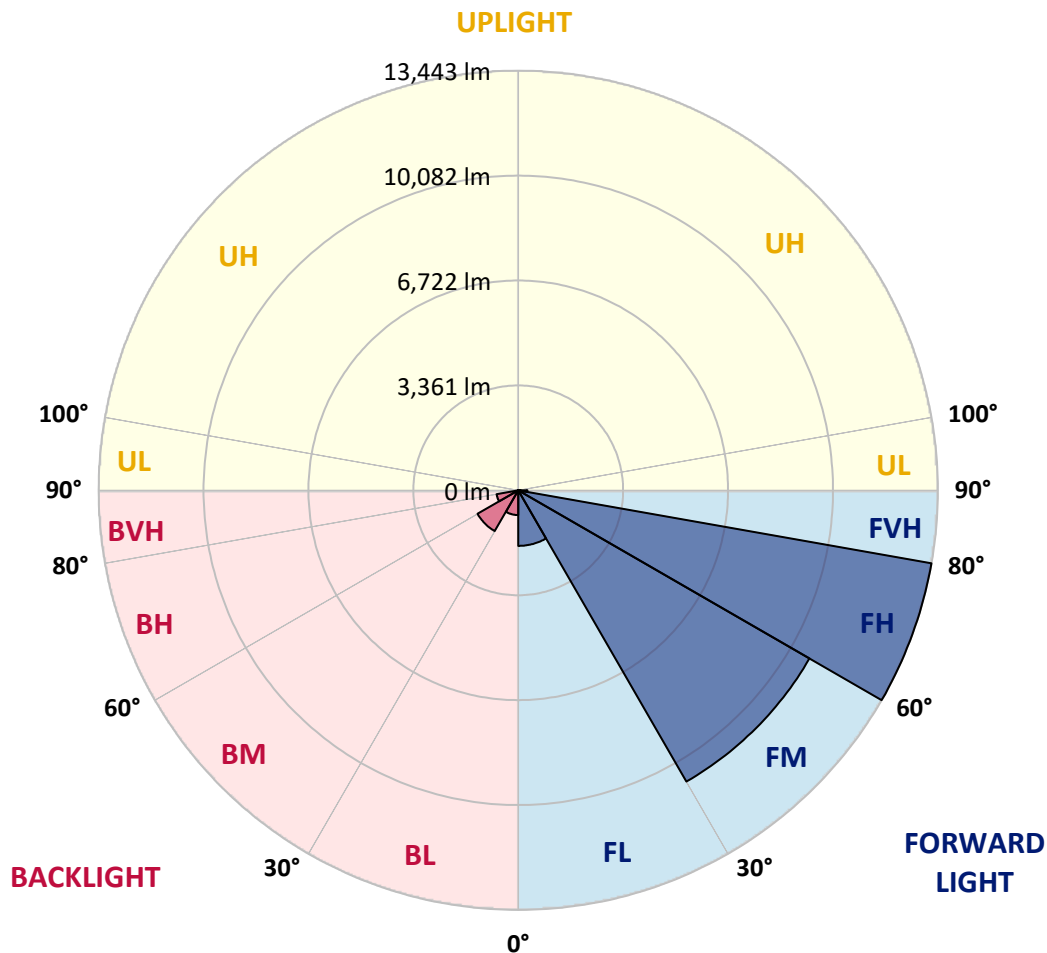
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1780.1	6.1			
FM (30°-60°)	10773.2	36.8			
FH (60°-80°)	13443.3	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°	2935.4	2935.4	2935.4	2935.4	2935.4	2935.4	2935.4	2935.4	2935.4	2935.4	2935.4
2.5°	3261.0	3256.9	3237.6	3229.4	3182.7	3155.2	3144.2	3109.9	3060.5	3011.0	2956.1
5°	3631.9	3630.5	3594.8	3560.5	3472.5	3390.1	3375.0	3295.3	3184.1	3079.7	2975.3
7.5°	4011.0	3993.1	3957.4	3891.5	3763.7	3631.9	3619.5	3506.9	3348.9	3197.8	3048.1
10°	4332.4	4321.4	4274.7	4174.5	4024.7	3875.0	3859.9	3721.2	3542.6	3357.2	3166.2
12.5°	4582.4	4574.2	4512.4	4387.4	4228.0	4072.8	4052.2	3928.6	3737.7	3530.2	3305.0
15°	4734.9	4730.8	4655.2	4522.0	4365.4	4230.8	4212.9	4104.4	3927.2	3710.2	3456.1
17.5°	4770.6	4772.0	4693.7	4559.1	4430.0	4333.8	4320.1	4237.7	4089.3	3873.6	3607.2
20°	4691.0	4707.4	4637.4	4520.6	4440.9	4390.1	4379.1	4329.7	4204.7	4001.4	3728.0
22.5°	4578.3	4586.6	4538.5	4460.2	4427.2	4436.8	4431.3	4403.9	4298.1	4111.3	3847.5
25°	4509.6	4509.6	4480.8	4414.9	4436.8	4495.9	4497.3	4491.8	4408.0	4245.9	3993.1
27.5°	4506.9	4498.6	4465.7	4416.2	4476.7	4567.3	4572.8	4609.9	4557.7	4409.4	4174.5
30°	4616.8	4607.2	4537.1	4472.5	4549.5	4647.0	4660.7	4741.8	4715.7	4586.6	4376.4
32.5°	4873.6	4839.3	4684.1	4578.3	4636.0	4752.8	4770.6	4899.7	4941.0	4805.0	4571.4
35°	5225.3	5116.8	4892.9	4778.9	4784.4	4906.6	4923.1	5112.7	5234.9	5005.5	4722.5
37.5°	5710.2	5656.6	5292.6	4987.7	5012.4	5197.8	5245.9	5451.9	5417.6	5115.4	4894.2
40°	6773.4	6689.6	6302.2	5572.8	5230.8	5434.1	5449.2	5559.1	5561.8	5364.0	5251.4
42.5°	8221.2	8186.8	7778.9	6634.6	5660.7	5592.1	5619.5	5805.0	6012.4	5888.8	5883.3
45°	9824.2	9806.4	9373.7	8044.0	6530.2	6109.9	6144.3	6392.9	6789.9	6817.3	6991.8
47.5°	11114.1	11105.8	10857.2	9616.8	7861.3	6987.7	6998.7	7262.4	7960.2	8305.0	8583.8
50°	12289.9	12329.7	12133.3	11318.7	9674.5	8362.7	8336.6	8512.4	9633.3	10197.8	10544.0
52.5°	13924.5	13980.8	13430.0	12906.6	11577.0	10068.7	10048.1	10232.2	11644.3	12067.4	12129.2
55°	15368.2	15272.0	14836.6	14685.5	13897.0	12175.9	12170.4	12332.5	13589.3	13769.3	13883.3
57.5°	16005.6	15968.5	16178.6	16524.8	16327.0	14666.3	14653.9	14530.3	15329.7	15349.0	15699.2
60°	16408.0	16453.4	17097.6	18164.9	18658.0	17346.2	17266.5	16512.4	16991.8	16949.2	17324.2
62.5°	16105.8	16195.1	17354.5	19133.3	20402.5	19685.5	19572.9	18328.4	18412.2	18265.2	18614.1
65°	14501.4	14640.2	16539.9	18950.6	21267.9	21513.8	21399.8	19931.4	19539.9	19298.1	19104.5
67.5°	11774.8	11857.2	13840.7	17361.3	20877.8	22604.5	22581.1	21336.6	20391.6	19123.7	17620.9
69°	9730.8	9811.8	11721.2	15688.2	20019.3	22838.0	22883.3	21787.2	20229.5	18063.3	15612.7
70°	8241.8	8328.3	10107.2	14254.2	19023.4	22729.5	22810.5	21744.6	19765.2	16835.2	13850.3
72.5°	4322.8	4397.0	6222.5	9820.1	15508.3	20871.0	21116.8	19906.7	16754.2	12226.7	8189.6
75°	1358.5	1401.1	2430.0	5133.3	10618.2	16228.1	16284.4	15615.4	11897.0	6725.3	3410.7
77.5°	517.9	505.5	809.1	1891.5	5368.2	10218.4	10563.2	9758.3	6243.2	2377.8	787.1
80°	278.8	280.2	420.3	783.0	2296.7	5251.4	5542.6	4729.4	2218.4	741.8	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	544.0	570.1	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°	2935.4	2935.4	2935.4	2935.4	2935.4	2935.4	2935.4	2935.4	2935.4	2935.4	2935.4
2.5°	2938.2	2913.5	2870.9	2824.2	2791.2	2756.9	2729.4	2717.0	2703.3	2693.7	2706.1
5°	2932.7	2884.6	2802.2	2722.5	2664.8	2618.1	2579.7	2564.6	2549.5	2538.5	2537.1
7.5°	2980.8	2913.5	2787.1	2670.3	2581.1	2517.9	2465.7	2443.7	2425.8	2417.6	2410.7
10°	3072.8	2986.3	2817.3	2664.8	2549.5	2442.3	2329.7	2243.1	2186.8	2160.7	2151.1
12.5°	3192.3	3083.8	2875.0	2693.7	2526.1	2320.1	2081.1	1875.0	1741.8	1697.8	1671.7
15°	3332.4	3197.8	2950.6	2730.8	2440.9	2064.6	1659.3	1390.1	1266.5	1241.8	1214.3
17.5°	3467.0	3318.7	3041.2	2737.6	2254.1	1649.7	1215.7	1033.0	984.9	1001.4	1005.5
20°	3585.2	3438.2	3130.5	2677.2	1914.8	1237.6	940.9	895.6	913.5	945.1	950.6
22.5°	3704.7	3553.6	3212.9	2517.9	1480.8	939.6	847.5	858.5	876.4	908.0	913.5
25°	3850.3	3693.7	3289.8	2225.3	1111.3	799.5	804.9	821.4	839.3	868.1	870.9
27.5°	4017.9	3870.9	3340.7	1844.8	824.2	734.9	752.7	777.5	795.3	822.8	828.3
30°	4240.4	4104.4	3357.2	1450.6	690.9	677.2	685.4	715.7	741.8	766.5	770.6
32.5°	4449.2	4335.2	3302.2	1094.8	640.1	623.6	623.6	641.5	671.7	695.1	700.6
35°	4641.5	4567.3	3126.4	800.8	601.7	574.2	560.4	560.4	579.7	598.9	604.4
37.5°	4895.6	4892.9	2842.0	638.7	564.6	533.0	504.1	482.1	475.3	479.4	482.1
40°	5331.1	5335.2	2471.2	572.8	533.0	490.4	446.4	406.6	369.5	357.1	355.8
42.5°	6011.0	5949.2	2082.4	541.2	505.5	446.4	380.5	326.9	269.2	251.4	250.0
45°	7090.7	6723.9	1670.3	512.4	476.7	397.0	314.6	241.8	195.1	181.3	181.3
47.5°	8663.5	7741.8	1294.0	480.8	438.2	340.7	237.6	174.5	142.9	136.0	137.4
50°	10289.9	8739.0	991.8	440.9	391.5	281.6	175.8	126.4	108.5	108.5	109.9
52.5°	11732.2	9469.8	773.4	398.4	333.8	221.2	133.2	98.9	90.7	89.3	90.7
55°	13082.5	9941.0	592.0	348.9	265.1	164.8	101.6	81.0	75.5	72.8	71.4
57.5°	14384.7	10174.5	443.7	281.6	192.3	119.5	81.0	68.7	63.2	59.1	57.7
60°	15251.4	9984.9	304.9	207.4	133.2	86.5	67.3	59.1	52.2	48.1	46.7
62.5°	15740.4	9467.1	196.4	149.7	94.8	64.6	53.6	49.5	39.8	35.7	35.7
65°	15542.6	8612.7	137.4	107.1	68.7	48.1	39.8	39.8	28.8	23.4	22.0
67.5°	13773.4	7276.1	104.4	79.7	49.5	35.7	30.2	34.3	17.9	11.0	11.0
69°	11850.3	6030.2	89.3	65.9	41.2	28.8	26.1	31.6	12.4	8.2	6.9
70°	10299.5	5201.9	81.0	57.7	34.3	24.7	23.4	30.2	12.4	6.9	5.5
72.5°	6162.1	2901.1	61.8	41.2	22.0	19.2	19.2	34.3	12.4	6.9	5.5
75°	2490.4	1022.0	45.3	28.8	16.5	16.5	23.4	44.0	11.0	5.5	4.1
77.5°	564.6	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)