

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: P322841

Luminaire Tested: **GAN-SA7B-730-U-T4W-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322841
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-730-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 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: 26680 lumens
Efficiency: N/A
Efficacy: 90.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

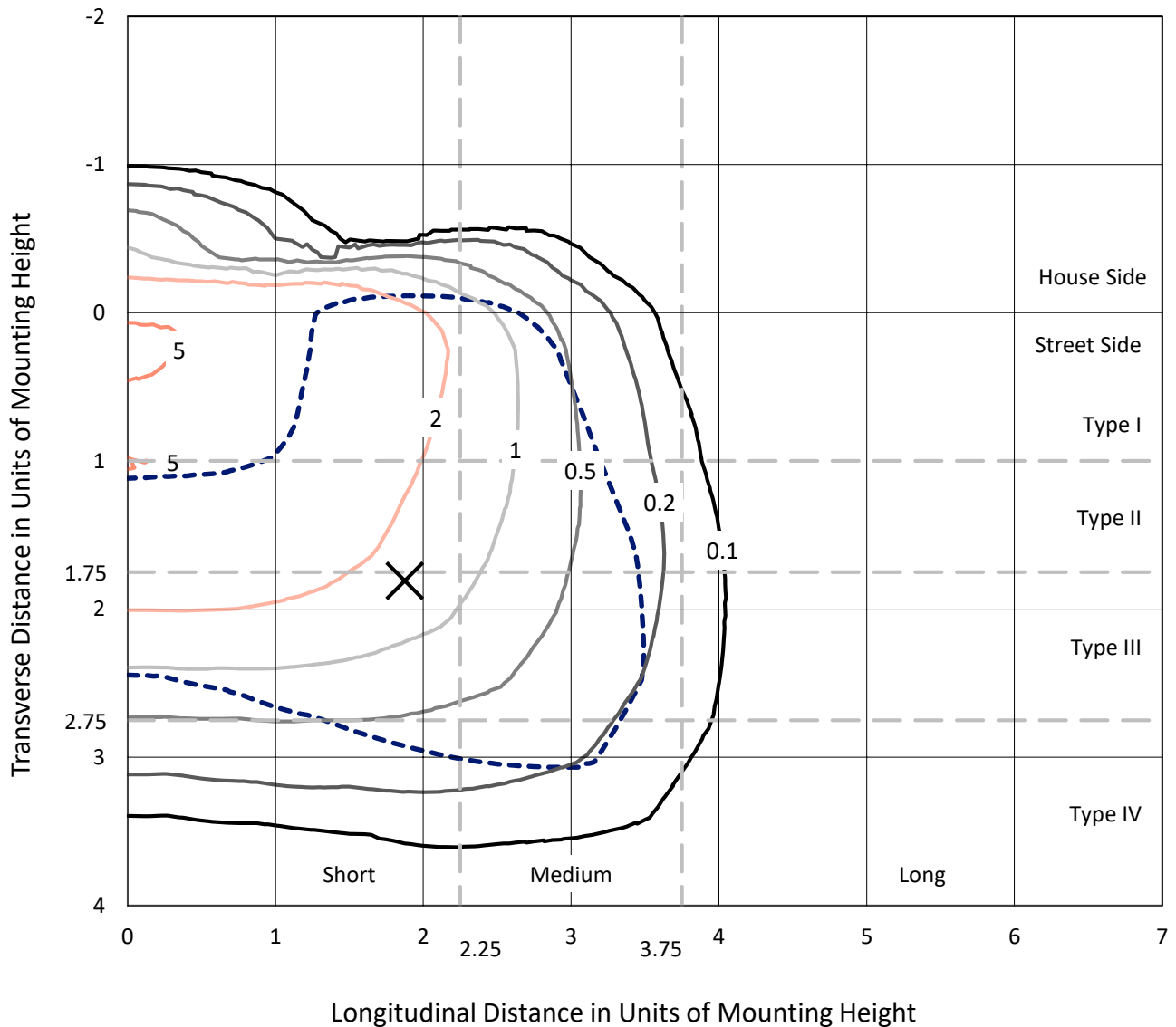
Input Watts (W): 295
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

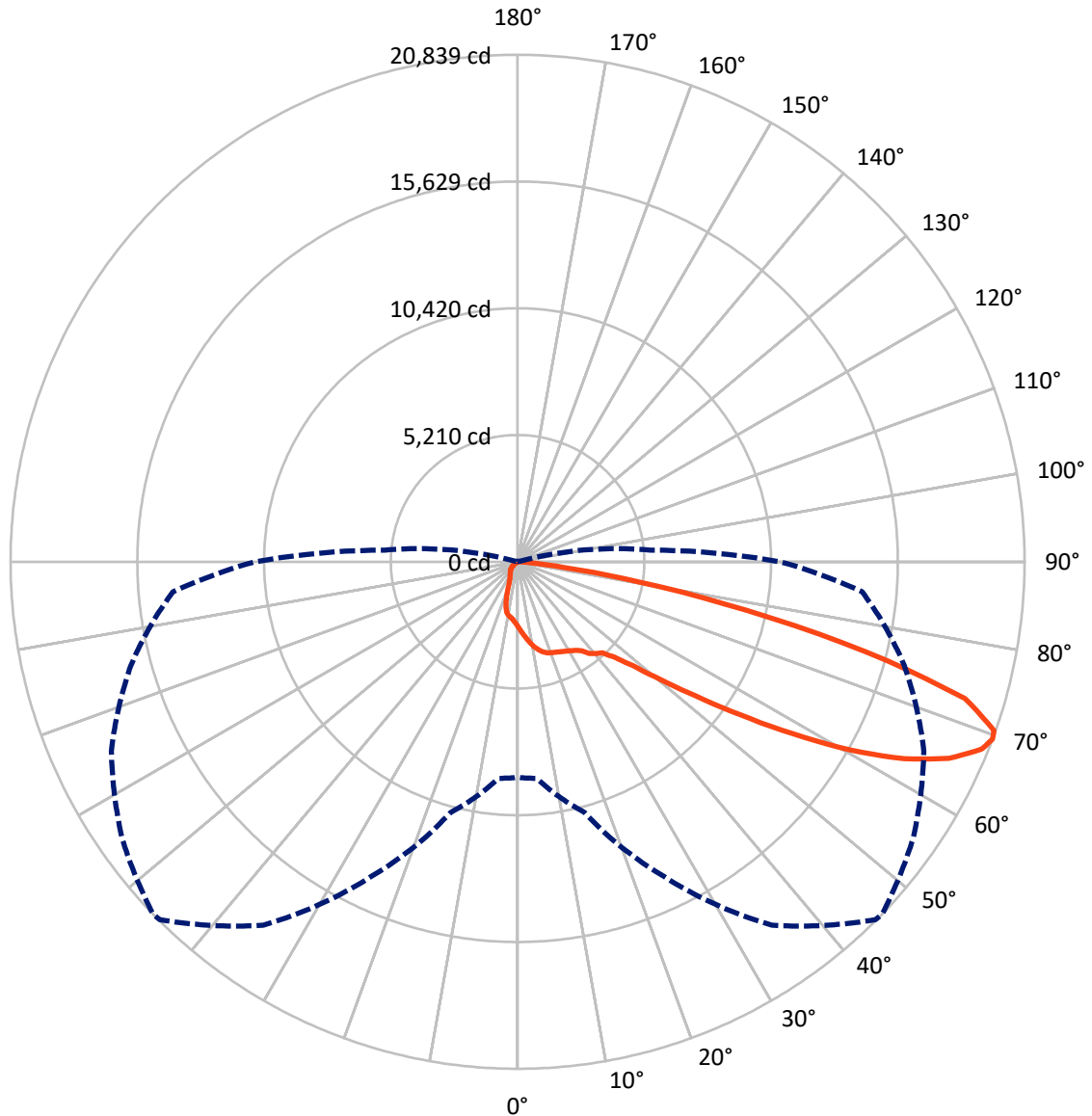
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 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	2738.1	0.0	2738.1
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	23941.9	0.0	23941.9
	% Fixture	89.7	0.0	89.7
Total	Lumens	26680.0	0.0	26680.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	266.1	1.0
10°-20°	807.2	3.0
20°-30°	1269.5	4.8
30°-40°	1820.5	6.8
40°-50°	3146.4	11.8
50°-60°	6216.1	23.3
60°-70°	8687.5	32.6
70°-80°	4197.0	15.7
80°-90°	269.8	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°	26680.0	100.0
0°-180°	26680.0	100.0

Coefficient of Utilization

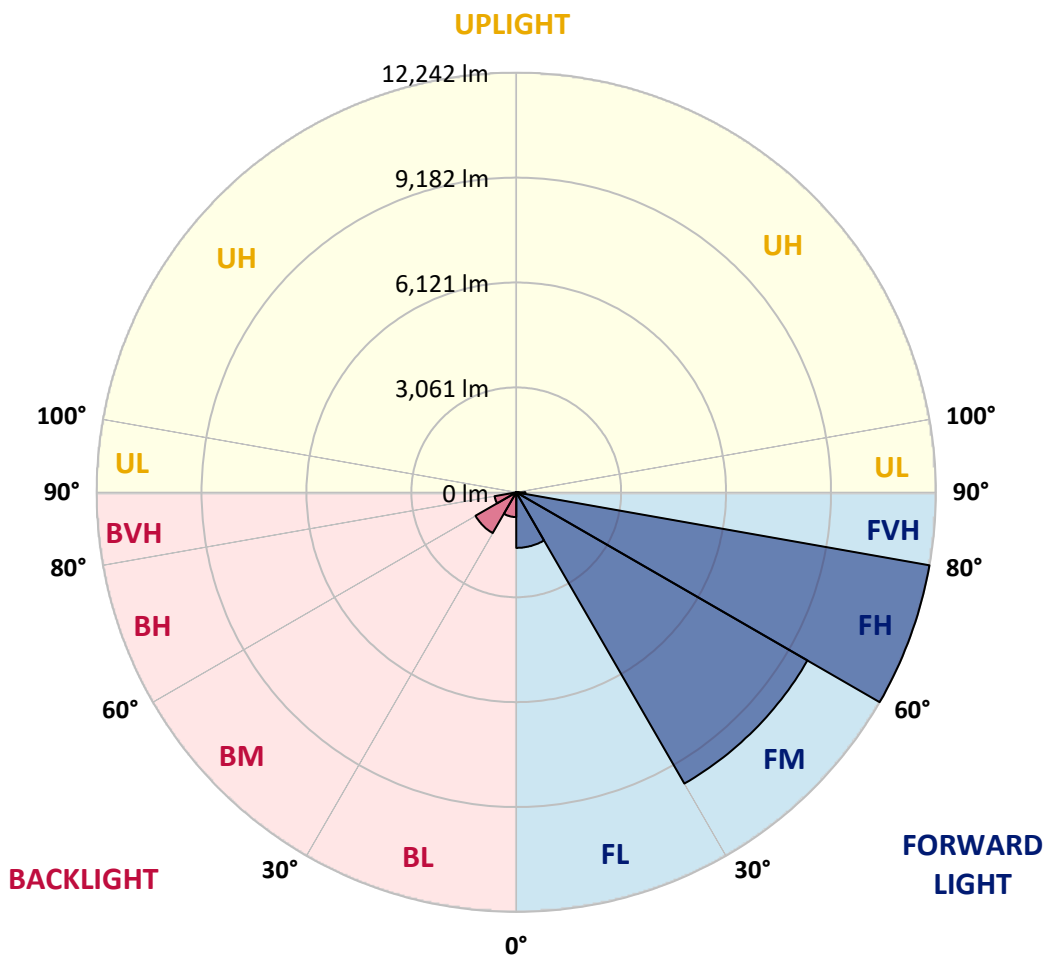


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1621.1	6.1			
FM (30°-60°)	9810.8	36.8			
FH (60°-80°)	12242.5	45.9			G5
FVH (80°-90°)	267.5	1.0			G3/500
BL (0°-30°)	721.7	2.7	B2/1000		
BM (30°-60°)	1372.1	5.1	B2/2500		
BH (60°-80°)	642.0	2.4	B2/1000		G2/1000
BVH (80°-90°)	2.3	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°	2673.2	2673.2	2673.2	2673.2	2673.2	2673.2	2673.2	2673.2	2673.2	2673.2	2673.2
2.5°	2969.7	2966.0	2948.4	2940.9	2898.4	2873.4	2863.4	2832.1	2787.1	2742.0	2692.0
5°	3307.5	3306.2	3273.7	3242.4	3162.3	3087.3	3073.5	3001.0	2899.7	2804.6	2709.5
7.5°	3652.7	3636.5	3603.9	3543.9	3427.5	3307.5	3296.2	3193.6	3049.8	2912.2	2775.8
10°	3945.4	3935.4	3892.9	3801.6	3665.2	3528.9	3515.1	3388.8	3226.1	3057.3	2883.4
12.5°	4173.1	4165.6	4109.3	3995.5	3850.4	3709.0	3690.2	3577.7	3403.8	3214.9	3009.7
15°	4312.0	4308.2	4239.4	4118.1	3975.5	3852.9	3836.6	3737.8	3576.4	3378.8	3147.3
17.5°	4344.5	4345.7	4274.4	4151.8	4034.2	3946.7	3934.2	3859.1	3724.0	3527.6	3284.9
20°	4271.9	4286.9	4223.1	4116.8	4044.3	3998.0	3988.0	3942.9	3829.1	3644.0	3395.0
22.5°	4169.3	4176.9	4133.1	4061.8	4031.7	4040.5	4035.5	4010.5	3914.2	3744.0	3503.9
25°	4106.8	4106.8	4080.5	4020.5	4040.5	4094.3	4095.5	4090.5	4014.2	3866.6	3636.5
27.5°	4104.3	4096.8	4066.8	4021.7	4076.8	4159.3	4164.3	4198.1	4150.6	4015.5	3801.6
30°	4204.4	4195.6	4131.8	4073.0	4143.1	4231.9	4244.4	4318.2	4294.4	4176.9	3985.5
32.5°	4438.3	4407.0	4265.7	4169.3	4221.9	4328.2	4344.5	4462.1	4499.6	4375.8	4163.1
35°	4758.5	4659.7	4455.8	4352.0	4357.0	4468.3	4483.3	4656.0	4767.3	4558.4	4300.7
37.5°	5200.1	5151.3	4819.8	4542.1	4564.6	4733.5	4777.3	4964.9	4933.7	4658.5	4457.1
40°	6168.3	6092.0	5739.3	5075.0	4763.5	4948.7	4962.4	5062.5	5065.0	4884.9	4782.3
42.5°	7486.8	7455.5	7084.0	6042.0	5155.1	5092.5	5117.6	5286.4	5475.3	5362.7	5357.7
45°	8946.6	8930.4	8536.3	7325.4	5946.9	5564.1	5595.4	5821.8	6183.3	6208.4	6367.2
47.5°	10121.3	10113.8	9887.3	8757.8	7159.1	6363.5	6373.5	6613.7	7249.1	7563.1	7817.1
50°	11192.1	11228.3	11049.5	10307.7	8810.3	7615.7	7591.9	7752.0	8772.8	9286.9	9602.1
52.5°	12680.7	12732.0	12230.3	11753.7	10542.8	9169.3	9150.5	9318.2	10604.1	10989.4	11045.7
55°	13995.4	13907.8	13511.3	13373.7	12655.7	11088.2	11083.2	11230.8	12375.4	12539.3	12643.1
57.5°	14575.8	14542.1	14733.4	15048.7	14868.5	13356.2	13344.9	13232.3	13960.4	13977.9	14296.9
60°	14942.4	14983.6	15570.3	16542.3	16991.4	15796.7	15724.2	15037.4	15474.0	15435.2	15776.7
62.5°	14667.1	14748.5	15804.2	17424.2	18580.1	17927.1	17824.5	16691.2	16767.5	16633.6	16951.3
65°	13206.1	13332.4	15062.4	17257.8	19368.1	19592.1	19488.2	18151.0	17794.5	17574.3	17397.9
67.5°	10723.0	10798.0	12604.4	15810.5	19012.9	20585.3	20564.0	19430.7	18570.0	17415.4	16046.9
69°	8861.6	8935.4	10674.2	14286.9	18231.0	20798.0	20839.2	19841.0	18422.4	16449.7	14218.1
70°	7505.6	7584.4	9204.3	12980.9	17324.1	20699.1	20772.9	19802.2	17999.6	15331.4	12613.1
72.5°	3936.7	4004.2	5666.7	8942.9	14123.0	19006.6	19230.5	18128.5	15257.6	11134.5	7458.0
75°	1237.2	1275.9	2212.9	4674.7	9669.7	14778.5	14829.8	14220.6	10834.3	6124.6	3106.1
77.5°	471.6	460.3	736.8	1722.5	4888.6	9305.7	9619.6	8886.6	5685.5	2165.4	716.8
80°	253.9	255.2	382.8	713.0	2091.6	4782.3	5047.5	4307.0	2020.3	675.5	165.1
82.5°	110.1	115.1	215.2	377.8	960.7	1763.8	1896.4	1578.7	771.8	454.1	61.3
85°	23.8	26.3	103.8	205.2	391.5	495.4	519.1	511.6	491.6	352.8	23.8
87.5°	0.0	0.0	46.3	73.8	98.8	112.6	98.8	128.8	271.5	237.7	12.5
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°	2673.2	2673.2	2673.2	2673.2	2673.2	2673.2	2673.2	2673.2	2673.2	2673.2	2673.2
2.5°	2675.7	2653.2	2614.4	2571.9	2541.9	2510.6	2485.6	2474.3	2461.8	2453.1	2464.3
5°	2670.7	2627.0	2551.9	2479.3	2426.8	2384.3	2349.2	2335.5	2321.7	2311.7	2310.5
7.5°	2714.5	2653.2	2538.1	2431.8	2350.5	2293.0	2245.4	2225.4	2209.1	2201.6	2195.4
10°	2798.3	2719.5	2565.7	2426.8	2321.7	2224.2	2121.6	2042.8	1991.5	1967.7	1959.0
12.5°	2907.2	2808.3	2618.2	2453.1	2300.5	2112.8	1895.2	1707.5	1586.2	1546.1	1522.4
15°	3034.8	2912.2	2687.0	2486.8	2222.9	1880.1	1511.1	1265.9	1153.4	1130.8	1105.8
17.5°	3157.3	3022.2	2769.6	2493.1	2052.8	1502.4	1107.1	940.7	896.9	911.9	915.7
20°	3264.9	3131.1	2850.9	2438.1	1743.8	1127.1	856.9	815.6	831.9	860.6	865.6
22.5°	3373.8	3236.2	2925.9	2293.0	1348.5	855.6	771.8	781.8	798.1	826.9	831.9
25°	3506.4	3363.7	2996.0	2026.5	1012.0	728.0	733.0	748.1	764.3	790.6	793.1
27.5°	3659.0	3525.1	3042.3	1680.0	750.6	669.2	685.5	708.0	724.3	749.3	754.3
30°	3861.6	3737.8	3057.3	1321.0	629.2	616.7	624.2	651.7	675.5	698.0	701.8
32.5°	4051.8	3947.9	3007.2	997.0	582.9	567.9	567.9	584.2	611.7	633.0	638.0
35°	4226.9	4159.3	2847.1	729.3	547.9	522.9	510.4	510.4	527.9	545.4	550.4
37.5°	4458.3	4455.8	2588.2	581.7	514.1	485.4	459.1	439.1	432.8	436.6	439.1
40°	4854.9	4858.6	2250.4	521.6	485.4	446.6	406.6	370.3	336.5	325.2	324.0
42.5°	5474.1	5417.8	1896.4	492.9	460.3	406.6	346.5	297.7	245.2	228.9	227.7
45°	6457.3	6123.3	1521.1	466.6	434.1	361.5	286.5	220.2	177.6	165.1	165.1
47.5°	7889.6	7050.2	1178.4	437.8	399.0	310.2	216.4	158.9	130.1	123.8	125.1
50°	9370.7	7958.4	903.2	401.5	356.5	256.4	160.1	115.1	98.8	98.8	100.1
52.5°	10684.2	8623.9	704.3	362.8	304.0	201.4	121.3	90.1	82.6	81.3	82.6
55°	11913.9	9053.0	539.2	317.7	241.4	150.1	92.6	73.8	68.8	66.3	65.0
57.5°	13099.7	9265.6	404.1	256.4	175.1	108.8	73.8	62.5	57.5	53.8	52.5
60°	13889.1	9093.0	277.7	188.9	121.3	78.8	61.3	53.8	47.5	43.8	42.5
62.5°	14334.4	8621.4	178.9	136.4	86.3	58.8	48.8	45.0	36.3	32.5	32.5
65°	14154.3	7843.3	125.1	97.6	62.5	43.8	36.3	36.3	26.3	21.3	20.0
67.5°	12543.1	6626.2	95.1	72.6	45.0	32.5	27.5	31.3	16.3	10.0	10.0
69°	10791.8	5491.6	81.3	60.0	37.5	26.3	23.8	28.8	11.3	7.5	6.3
70°	9379.5	4737.3	73.8	52.5	31.3	22.5	21.3	27.5	11.3	6.3	5.0
72.5°	5611.7	2642.0	56.3	37.5	20.0	17.5	17.5	31.3	11.3	6.3	5.0
75°	2267.9	930.7	41.3	26.3	15.0	15.0	21.3	40.0	10.0	5.0	3.8
77.5°	514.1	203.9	23.8	16.3	10.0	15.0	25.0	31.3	6.3	2.5	0.0
80°	125.1	50.0	15.0	10.0	6.3	11.3	18.8	17.5	1.3	0.0	0.0
82.5°	41.3	17.5	6.3	5.0	1.3	3.8	8.8	5.0	0.0	0.0	0.0
85°	17.5	10.0	2.5	1.3	0.0	0.0	1.3	0.0	0.0	0.0	0.0
87.5°	11.3	3.8	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)