

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: P321568

Luminaire Tested: **GAN-SA4C-730-U-T3R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321568
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-11)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA4C-730-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19984 lumens
Efficiency: N/A
Efficacy: 88.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G4

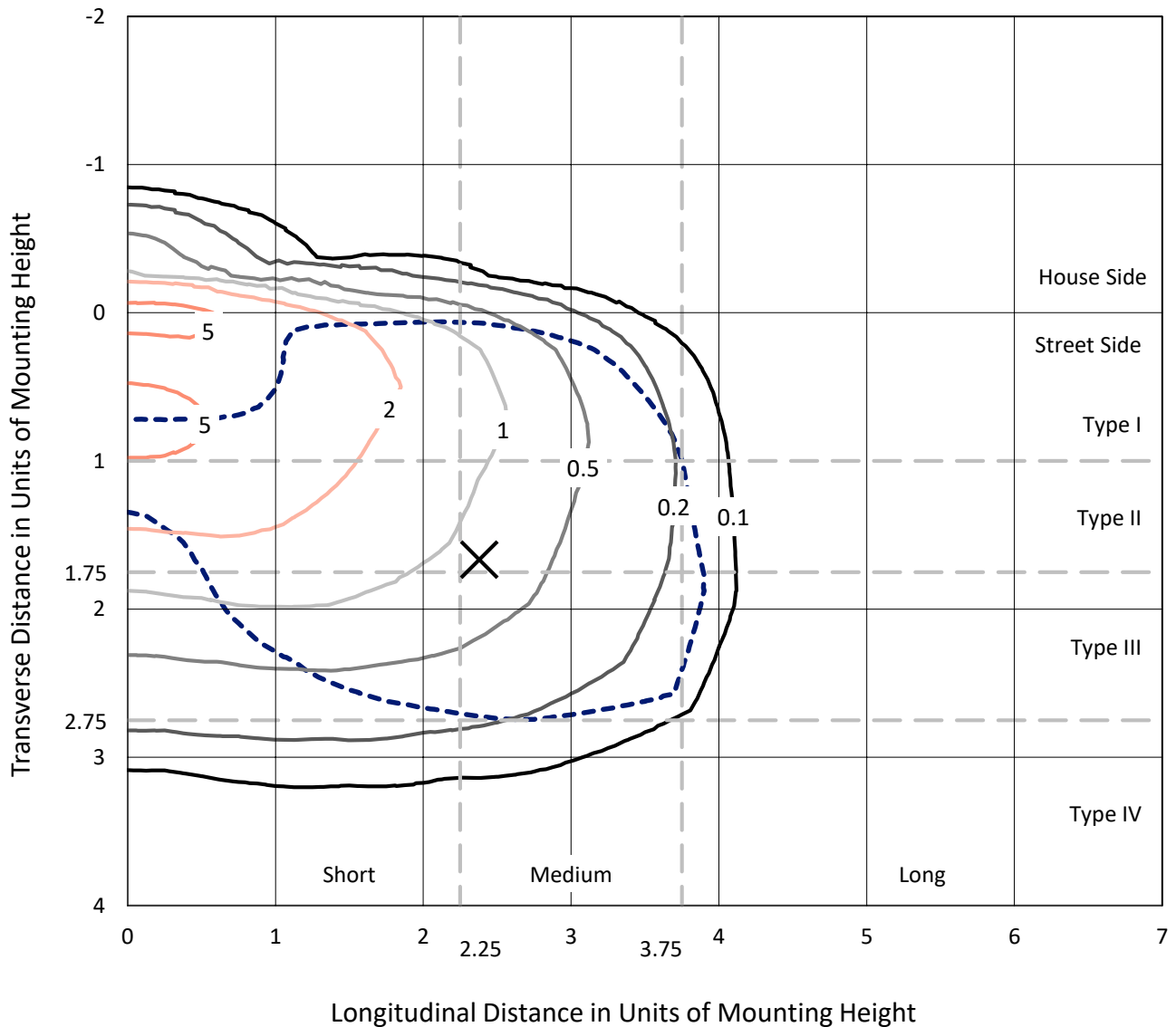
Input Watts (W): 225
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

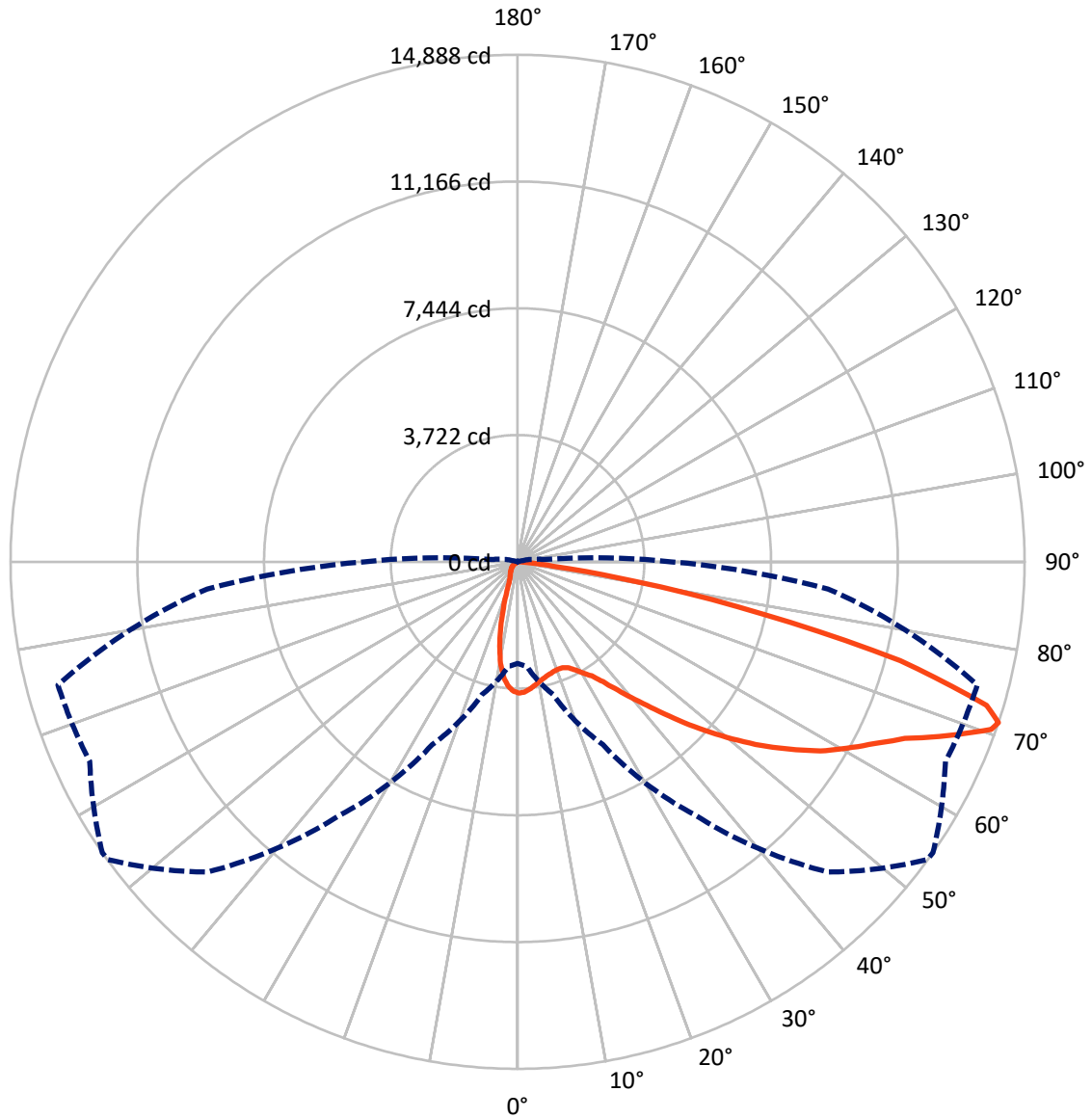
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1582.2	0.0	1582.2
	% Fixture	7.9	0.0	7.9
Street Side	Lumens	18401.8	0.0	18401.8
	% Fixture	92.1	0.0	92.1
Total	Lumens	19984.0	0.0	19984.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	328.6	1.6
10°-20°	741.8	3.7
20°-30°	1192.2	6.0
30°-40°	2025.6	10.1
40°-50°	3143.9	15.7
50°-60°	4226.9	21.2
60°-70°	5170.9	25.9
70°-80°	3023.3	15.1
80°-90°	130.7	0.7
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°	19984.0	100.0
0°-180°	19984.0	100.0

Coefficient of Utilization

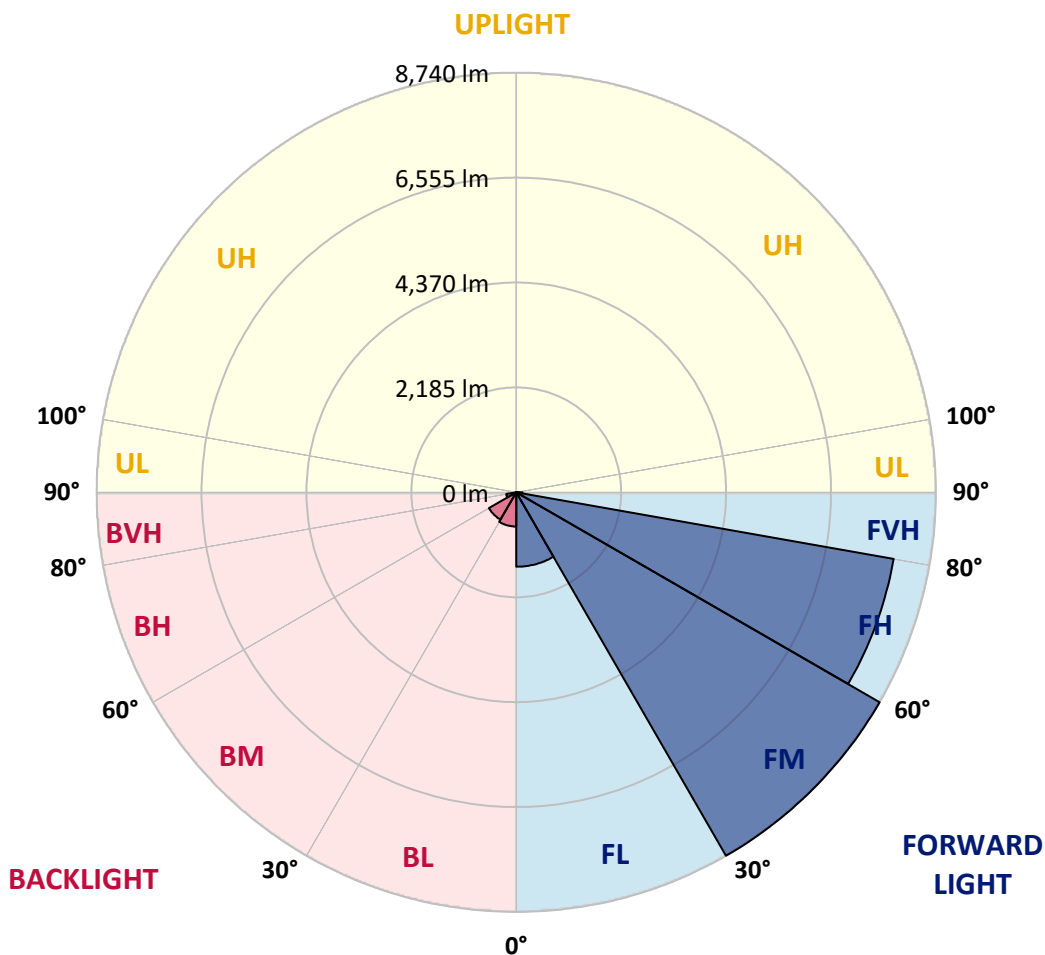


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1550.5	7.8			
FM (30°-60°)	8740.4	43.7			
FH (60°-80°)	7982.3	39.9			G4/12000
FVH (80°-90°)	128.6	0.6			G2/225
BL (0°-30°)	712.1	3.6	B2/1000		
BM (30°-60°)	656.0	3.3	B1/1000		
BH (60°-80°)	212.0	1.1	B1/500		G1/500
BVH (80°-90°)	2.1	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-G4
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	3854.0	3854.0	3854.0	3854.0	3854.0	3854.0	3854.0	3854.0	3854.0	3854.0	3854.0
2.5°	3740.9	3745.4	3761.6	3768.7	3785.8	3814.5	3828.9	3829.8	3853.1	3862.1	3869.2
5°	3476.2	3503.1	3530.1	3558.8	3610.8	3679.9	3748.1	3754.4	3829.8	3885.4	3915.0
7.5°	3248.3	3272.5	3304.8	3350.6	3424.2	3532.7	3646.7	3660.2	3802.8	3929.4	3995.8
10°	3014.1	3033.8	3080.5	3147.8	3249.2	3394.6	3548.0	3570.4	3778.6	3988.6	4105.2
12.5°	2763.7	2775.4	2831.9	2928.8	3077.8	3262.7	3464.5	3494.2	3763.4	4056.8	4234.4
15°	2573.5	2578.9	2632.7	2733.2	2903.7	3144.2	3399.9	3435.8	3766.9	4138.4	4375.3
17.5°	2525.1	2527.7	2556.5	2625.6	2776.3	3038.3	3348.8	3392.8	3777.7	4218.3	4517.1
20°	2721.6	2702.7	2673.1	2662.3	2727.0	2974.6	3318.3	3367.6	3792.1	4289.2	4644.5
22.5°	3260.9	3205.2	3082.3	2918.1	2818.5	2979.1	3326.4	3375.7	3837.8	4376.2	4791.7
25°	4061.3	3984.1	3775.0	3452.0	3141.5	3108.3	3393.7	3443.9	3926.7	4480.3	4932.6
27.5°	4972.0	4895.8	4640.0	4178.8	3649.4	3364.0	3548.0	3594.7	4058.6	4572.7	5040.2
30°	5844.2	5822.7	5521.2	4997.2	4288.3	3778.6	3747.2	3786.7	4156.4	4628.4	5125.5
32.5°	6583.6	6549.5	6307.3	5797.6	5019.6	4276.6	3981.4	3993.1	4230.0	4700.2	5236.8
35°	7269.2	7227.0	7014.3	6532.5	5769.8	4885.0	4342.1	4325.1	4390.6	4844.6	5398.3
37.5°	7867.7	7906.3	7670.3	7211.8	6442.8	5517.6	4828.5	4777.3	4641.8	5079.7	5632.5
40°	8368.4	8368.4	8245.5	7863.2	7169.6	6171.8	5378.5	5311.2	5019.6	5442.2	5929.5
42.5°	8548.8	8587.3	8633.1	8416.9	7820.1	6851.9	5991.4	5921.4	5551.7	5956.4	6304.6
45°	8559.5	8620.5	8854.7	8853.8	8407.9	7527.6	6682.3	6649.1	6233.7	6616.8	6769.4
47.5°	8407.9	8484.2	8870.0	9088.9	8873.6	8156.6	7437.9	7396.6	7035.0	7426.2	7255.7
50°	8173.7	8258.0	8706.7	9181.4	9190.3	8704.0	8233.8	8171.9	7917.0	8351.4	7758.2
52.5°	7754.6	7917.9	8560.4	9202.9	9398.5	9176.9	8991.1	8964.2	8904.1	9242.4	8158.4
55°	6858.2	7039.5	8193.4	9210.1	9591.4	9595.9	9700.9	9708.1	9829.2	10075.1	8456.3
57.5°	6434.7	6537.0	7552.7	9244.2	9877.7	10071.5	10424.2	10479.8	10667.3	10865.6	8796.4
60°	6168.2	6289.3	7236.9	9197.5	10327.2	10695.1	11094.5	11113.3	11314.3	11681.3	9256.7
62.5°	5955.5	6074.9	7037.7	9018.1	10832.4	11445.3	11749.5	11751.3	11902.0	12653.1	9779.9
65°	5430.6	5531.1	6634.8	8816.2	11166.2	12187.4	12510.4	12498.8	12621.7	13677.8	10387.4
67.5°	4671.4	4748.6	5811.9	8050.7	11040.6	12862.2	13659.0	13620.4	13471.5	14563.5	10626.1
70°	3611.7	3639.5	4580.8	6709.3	9863.3	13121.5	14769.0	14749.2	13992.8	14404.7	9751.2
71°	2985.4	3076.9	4037.0	5921.4	9074.6	12881.9	14876.7	14888.3	13861.8	13972.2	9149.1
72.5°	1733.6	1811.7	2926.2	4547.6	7704.4	11882.3	14318.5	14402.9	13249.8	12708.7	7814.8
75°	371.5	397.5	1084.9	2201.1	4238.0	8328.0	11301.7	11602.3	10799.2	8645.7	4710.0
77.5°	258.4	279.1	464.8	998.7	1400.7	4115.1	7020.6	7359.8	6451.7	3249.2	1507.5
80°	204.6	227.9	362.5	493.5	378.7	1327.1	3288.7	3496.0	2151.8	725.0	253.9
82.5°	114.0	135.5	282.7	266.5	145.4	252.1	920.6	1040.9	430.7	146.3	60.1
85°	33.2	40.4	182.2	193.8	61.9	48.5	157.0	194.7	81.7	38.6	26.9
87.5°	0.0	0.0	87.9	74.5	17.9	7.2	14.4	16.2	16.2	16.2	17.9
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°	3854.0	3854.0	3854.0	3854.0	3854.0	3854.0	3854.0	3854.0	3854.0	3854.0	3854.0
2.5°	3869.2	3875.5	3853.1	3823.5	3792.1	3753.5	3713.1	3681.7	3680.8	3665.5	3650.3
5°	3916.8	3913.2	3851.3	3757.1	3645.8	3530.1	3419.7	3295.0	3253.7	3202.5	3185.5
7.5°	4004.7	3979.6	3848.6	3642.2	3398.1	3155.9	2905.5	2653.4	2545.7	2448.8	2431.7
10°	4115.1	4067.5	3831.6	3469.9	3022.2	2575.3	2197.5	1854.8	1704.0	1588.3	1582.9
12.5°	4230.0	4157.3	3784.0	3209.7	2529.5	1901.4	1466.2	1128.8	1003.2	922.4	929.6
15°	4350.2	4241.6	3681.7	2858.9	1968.7	1290.3	900.9	702.6	652.4	631.7	637.1
17.5°	4473.1	4300.0	3539.0	2436.2	1415.1	832.7	623.6	568.0	568.0	572.5	574.3
20°	4579.9	4331.4	3329.1	1962.4	959.2	606.6	545.6	537.5	542.0	549.2	550.1
22.5°	4685.8	4333.2	3055.4	1482.4	671.2	531.2	519.5	516.0	518.7	526.7	527.6
25°	4771.9	4311.6	2712.6	1054.4	535.7	500.7	495.3	493.5	495.3	505.2	505.2
27.5°	4806.9	4233.6	2294.4	741.2	480.1	466.6	464.8	466.6	469.3	476.5	477.4
30°	4810.5	4097.2	1838.6	536.6	435.2	420.8	424.4	430.7	428.0	426.2	428.0
32.5°	4819.5	3939.2	1394.4	441.5	397.5	375.1	370.6	370.6	359.8	353.5	350.0
35°	4849.1	3753.5	1011.3	396.6	358.9	332.9	315.9	296.1	275.5	264.7	262.0
37.5°	4895.8	3558.8	724.1	367.0	324.8	295.2	262.9	227.9	198.3	190.2	190.2
40°	4981.0	3357.8	535.7	343.7	297.9	261.1	212.7	166.9	140.0	135.5	135.5
42.5°	5115.6	3146.0	427.1	323.0	274.6	226.1	162.4	121.1	101.4	98.7	97.8
45°	5255.6	2912.7	373.3	303.3	249.5	185.7	120.2	89.7	78.1	75.4	75.4
47.5°	5395.6	2664.1	347.3	284.5	225.2	144.5	89.7	70.9	65.5	65.5	66.4
50°	5514.0	2404.8	328.4	263.8	193.8	109.5	70.9	60.1	58.3	61.9	62.8
52.5°	5543.6	2150.0	305.1	237.8	155.2	83.5	58.3	52.9	52.9	52.9	52.9
55°	5525.7	1952.6	274.6	205.5	114.9	66.4	50.2	46.7	45.8	45.8	45.8
57.5°	5586.7	1835.9	219.8	159.7	82.6	53.8	44.0	41.3	39.5	38.6	38.6
60°	5709.6	1759.6	157.0	114.9	61.9	44.9	37.7	35.0	32.3	30.5	30.5
62.5°	5873.0	1693.2	116.7	85.2	47.6	35.9	31.4	28.7	25.1	23.3	23.3
65°	5998.6	1574.8	88.8	63.7	35.9	28.7	24.2	23.3	17.9	16.2	15.3
67.5°	5806.6	1314.6	71.8	46.7	26.9	22.4	18.8	17.9	10.8	9.0	9.0
70°	4980.1	915.3	57.4	34.1	19.7	17.9	15.3	11.7	8.1	7.2	7.2
71°	4516.2	764.5	52.0	28.7	17.0	17.0	14.4	9.9	7.2	6.3	6.3
72.5°	3751.7	542.9	44.0	22.4	15.3	17.9	15.3	9.0	7.2	6.3	5.4
75°	2177.8	227.0	30.5	15.3	11.7	21.5	19.7	8.1	5.4	4.5	4.5
77.5°	655.0	83.5	17.0	9.9	9.0	18.8	22.4	7.2	2.7	0.9	0.9
80°	119.3	35.9	10.8	6.3	6.3	11.7	17.0	3.6	0.0	0.0	0.0
82.5°	42.2	17.9	6.3	3.6	2.7	5.4	8.1	0.0	0.0	0.0	0.0
85°	24.2	12.6	3.6	1.8	0.0	0.9	1.8	0.0	0.0	0.0	0.0
87.5°	16.2	3.6	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)