

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: P319686

Luminaire Tested: **GAN-SA2C-740-U-SL3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319686
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-22)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA2C-740-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14474 lumens
Efficiency: N/A
Efficacy: 128.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

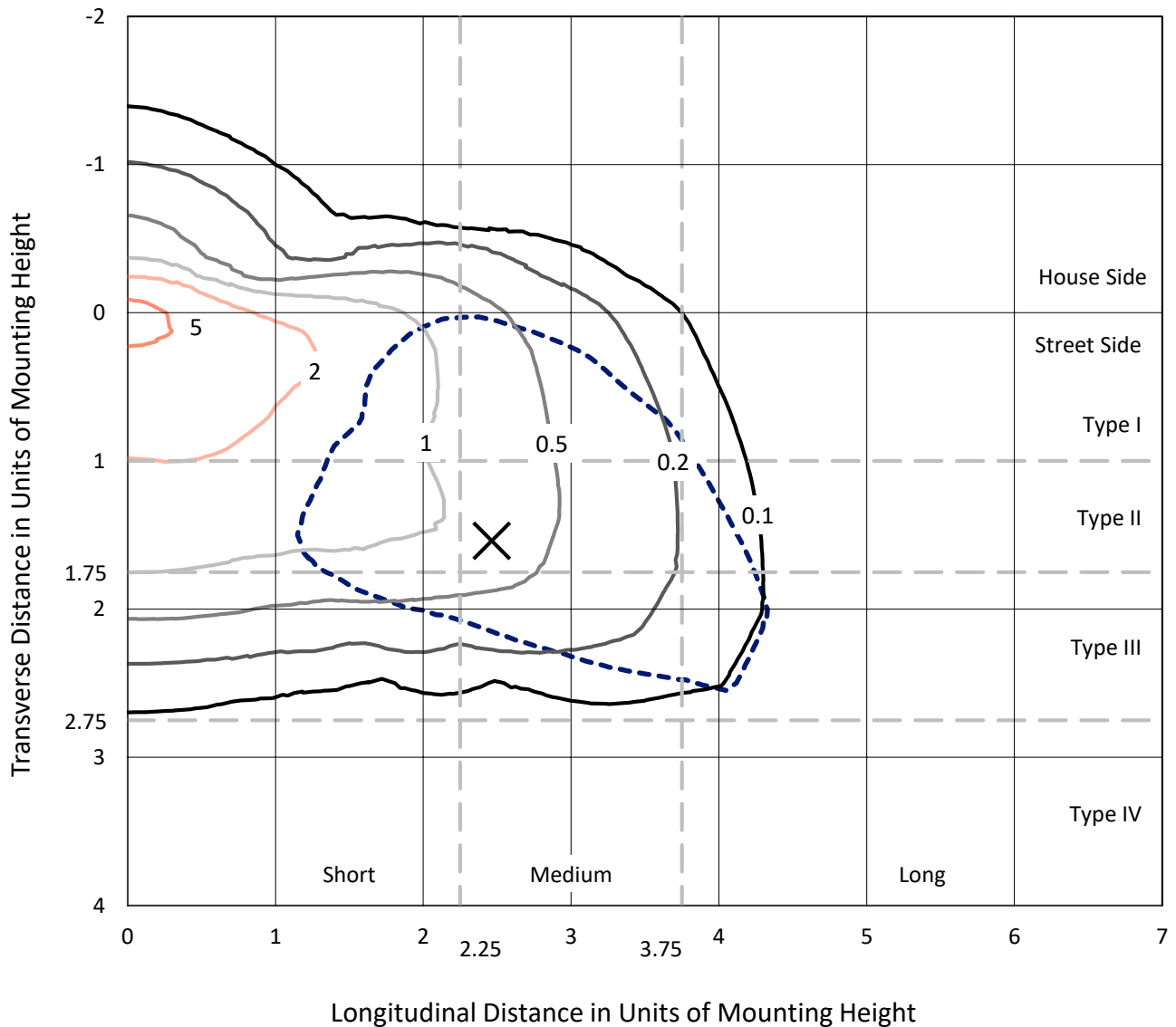
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

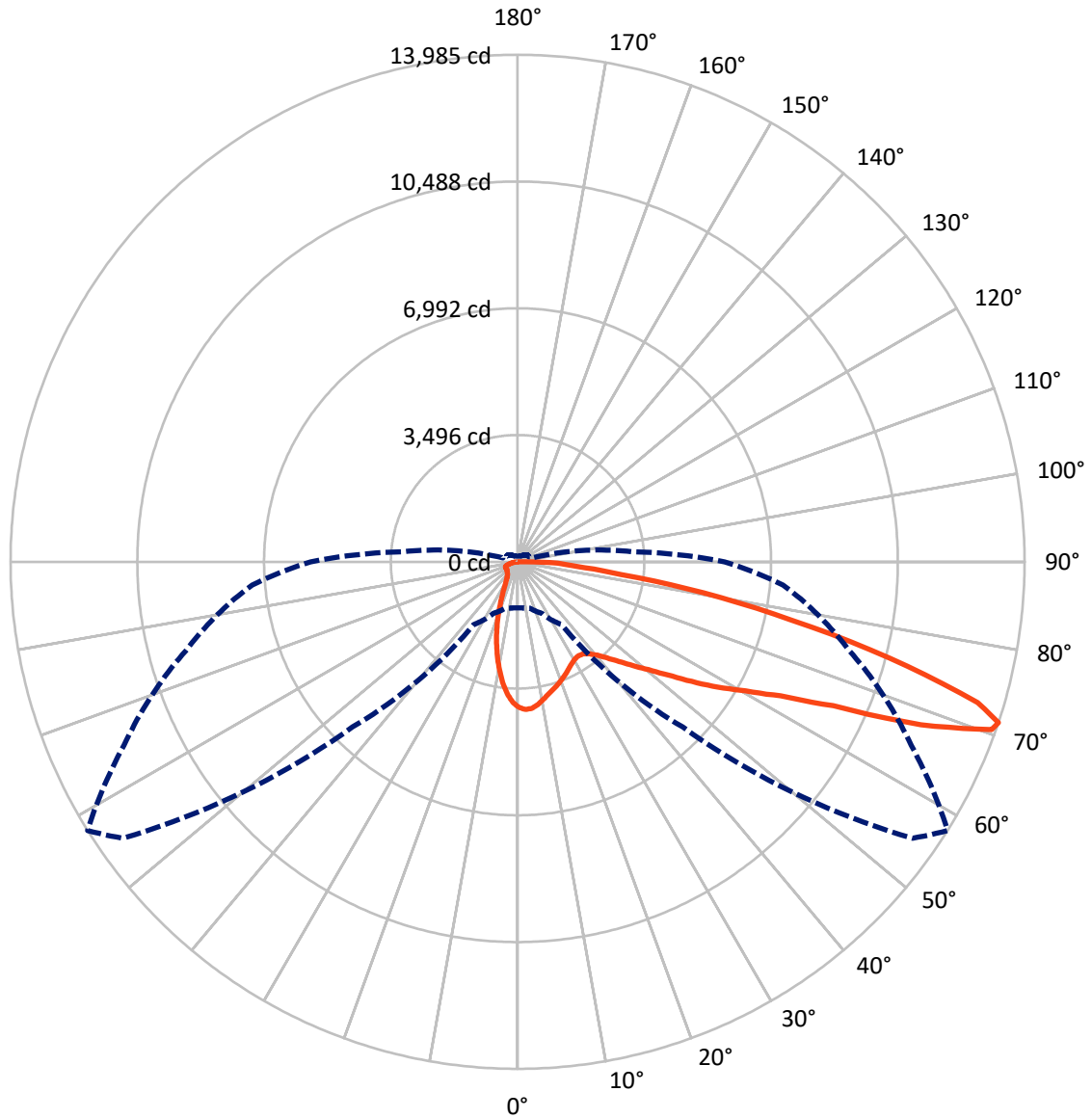
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2164.0	0.0	2164.0
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	12310.0	0.0	12310.0
	% Fixture	85.0	0.0	85.0
Total	Lumens	14474.0	0.0	14474.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	346.0	2.4
10°-20°	769.3	5.3
20°-30°	977.7	6.8
30°-40°	1245.4	8.6
40°-50°	1766.0	12.2
50°-60°	2733.0	18.9
60°-70°	3720.6	25.7
70°-80°	2482.1	17.1
80°-90°	434.0	3.0
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°	14474.0	100.0
0°-180°	14474.0	100.0

Coefficient of Utilization

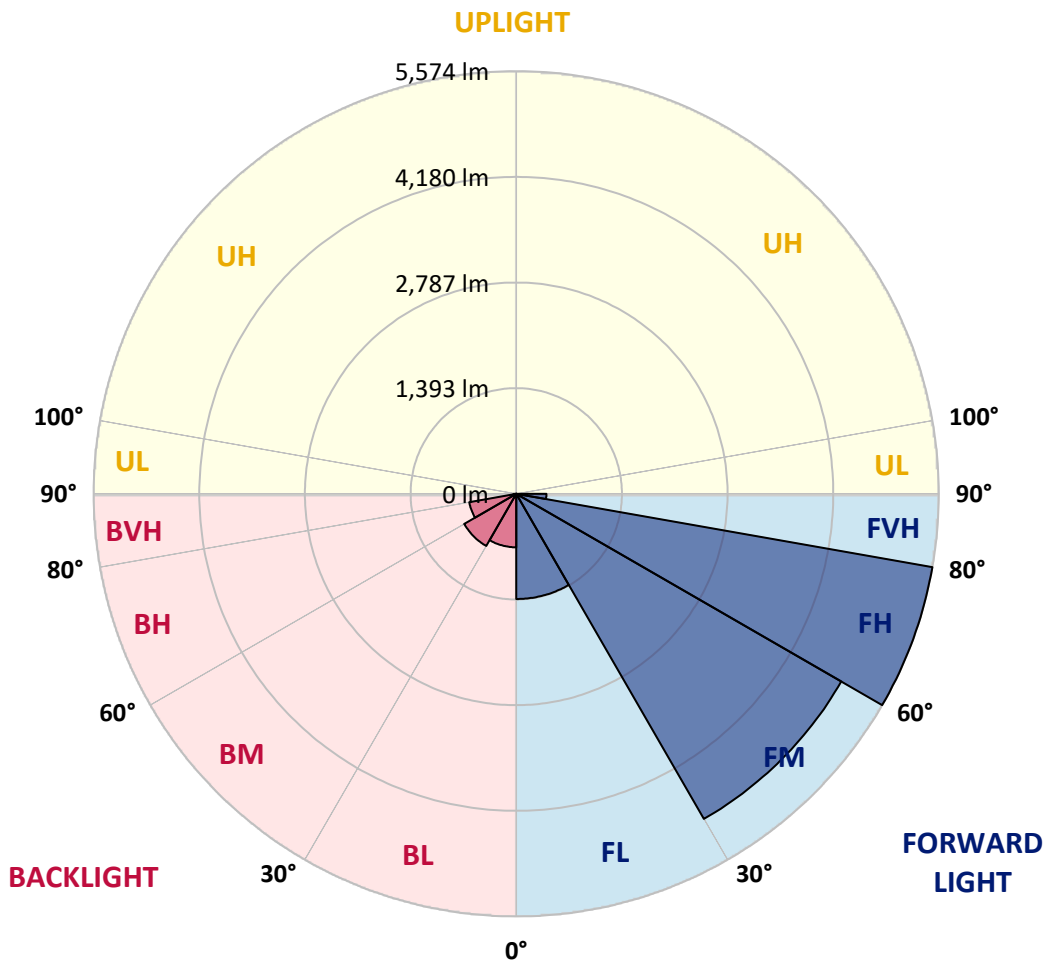


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1387.6	9.6			
FM (30°-60°)	4950.8	34.2			
FH (60°-80°)	5573.8	38.5			G3/7500
FVH (80°-90°)	397.9	2.7			G3/500
BL (0°-30°)	705.4	4.9	B2/1000		
BM (30°-60°)	793.6	5.5	B1/1000		
BH (60°-80°)	628.9	4.3	B2/1000		G2/1000
BVH (80°-90°)	36.1	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	4010.3	4010.3	4010.3	4010.3	4010.3	4010.3	4010.3	4010.3	4010.3	4010.3	4010.3
2.5°	4116.6	4111.1	4113.1	4109.1	4099.5	4089.9	4075.8	4078.3	4058.7	4029.4	3993.1
5°	4039.0	4037.0	4052.1	4060.7	4067.7	4062.2	4058.2	4063.2	4034.5	3994.1	3931.1
7.5°	3876.2	3854.0	3873.1	3901.9	3929.1	3949.8	3977.0	3980.5	3962.4	3920.0	3837.3
10°	3644.7	3623.6	3651.8	3696.7	3751.1	3800.5	3855.5	3865.6	3869.1	3830.8	3730.4
12.5°	3404.7	3388.6	3416.8	3479.9	3570.1	3646.2	3734.0	3749.1	3780.4	3754.6	3631.6
15°	3190.0	3183.9	3218.2	3280.2	3384.1	3500.5	3627.1	3654.8	3707.8	3699.2	3554.5
17.5°	3004.4	3002.9	3029.1	3094.2	3209.1	3356.3	3520.7	3567.6	3646.2	3656.3	3491.0
20°	2866.3	2863.3	2881.4	2929.3	3047.8	3214.7	3405.8	3470.3	3583.7	3619.0	3425.4
22.5°	2792.2	2791.7	2792.2	2814.8	2911.7	3066.9	3293.8	3372.5	3522.7	3589.3	3352.8
25°	2779.6	2778.0	2767.0	2764.4	2819.4	2943.4	3182.9	3269.6	3464.7	3568.6	3283.7
27.5°	2812.3	2814.3	2799.7	2776.0	2787.1	2862.2	3086.6	3179.4	3418.4	3564.6	3235.8
30°	2880.4	2879.4	2866.8	2842.1	2820.4	2832.0	3018.0	3110.8	3387.1	3582.2	3203.1
32.5°	2955.5	2961.1	2958.5	2944.9	2912.7	2866.3	2997.4	3088.1	3378.0	3624.6	3189.0
35°	3045.8	3051.8	3070.0	3080.6	3042.7	2968.1	3041.7	3120.4	3404.2	3704.2	3211.6
37.5°	3131.5	3147.1	3198.0	3242.9	3210.6	3127.4	3159.7	3215.7	3485.4	3829.8	3272.6
40°	3230.3	3243.9	3327.1	3422.4	3417.3	3331.1	3349.8	3387.1	3628.6	4009.8	3383.1
42.5°	3327.6	3354.8	3475.3	3610.4	3649.3	3573.1	3602.9	3622.5	3830.3	4248.2	3575.7
45°	3457.2	3486.4	3653.8	3816.7	3907.4	3864.6	3912.0	3919.5	4083.9	4572.9	3855.5
47.5°	3653.3	3686.6	3881.7	4052.6	4191.3	4195.8	4274.0	4270.9	4400.5	4944.5	4207.9
50°	3958.8	4006.7	4166.6	4326.4	4494.8	4588.6	4692.9	4678.3	4780.2	5340.3	4613.8
52.5°	4359.2	4381.3	4499.8	4617.8	4827.0	5037.3	5187.0	5173.9	5210.7	5747.2	5074.6
55°	4774.1	4790.7	4839.6	4904.2	5185.5	5528.4	5845.0	5824.3	5731.0	6169.7	5529.9
57.5°	5147.2	5181.0	5214.8	5241.5	5546.5	6041.6	6518.1	6519.6	6295.7	6625.5	6000.3
60°	5205.2	5234.9	5458.3	5669.0	6164.1	6726.3	7238.5	7223.4	6880.1	7120.1	6524.6
62.5°	4601.2	4668.2	5041.3	5602.0	6759.1	7978.7	8157.7	8139.0	7578.9	7729.6	7135.2
65°	3297.4	3373.5	3823.7	4666.2	6470.7	9358.6	9816.4	9565.3	8531.8	8479.3	7850.1
67.5°	1902.3	1920.4	2115.5	2792.2	4926.9	9430.7	12346.9	11995.5	10011.5	9329.9	8200.0
70°	1406.7	1406.2	1452.5	1718.3	2666.1	7696.8	13550.4	13865.5	11569.5	9609.7	7705.4
71°	1272.1	1273.6	1325.5	1564.0	2111.5	6442.4	13294.8	13984.5	11979.9	9471.6	7347.4
72.5°	1088.0	1093.1	1165.2	1402.6	1776.2	4442.9	12193.6	13270.6	12174.5	9130.7	6787.3
75°	825.3	836.9	936.8	1182.3	1623.5	2253.2	8949.2	10596.9	10815.2	8056.8	5043.3
77.5°	588.9	602.0	714.9	994.2	1543.3	1698.1	5993.2	7729.6	7959.0	5163.3	2274.9
80°	372.1	387.7	472.9	791.1	1450.0	1612.4	3766.2	5195.6	4340.0	1652.2	578.8
82.5°	218.3	230.4	293.4	516.8	1184.3	1552.9	2215.9	2879.9	1689.0	499.1	263.2
85°	126.5	132.1	183.0	329.2	860.1	1465.7	1628.0	1609.9	733.1	244.0	124.5
87.5°	59.0	65.5	108.4	171.9	477.5	1062.3	1286.7	1111.7	455.8	114.4	58.5
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°	4010.3	4010.3	4010.3	4010.3	4010.3	4010.3	4010.3	4010.3	4010.3	4010.3	4010.3
2.5°	3975.5	3966.9	3931.1	3899.3	3866.1	3822.7	3774.8	3768.8	3739.5	3745.1	3735.0
5°	3896.8	3875.1	3788.9	3710.8	3618.5	3535.8	3446.1	3404.7	3345.2	3341.2	3326.1
7.5°	3784.4	3744.1	3610.4	3462.2	3314.0	3172.8	3033.2	2941.4	2847.6	2807.8	2804.3
10°	3657.8	3589.3	3392.6	3173.3	2959.5	2753.3	2553.7	2406.0	2272.9	2209.8	2207.3
12.5°	3537.8	3436.5	3166.8	2868.3	2575.9	2308.7	2034.9	1840.8	1673.9	1617.9	1594.2
15°	3436.0	3293.3	2946.9	2565.3	2210.3	1839.3	1527.7	1323.5	1169.2	1115.8	1105.7
17.5°	3337.2	3153.7	2721.6	2259.2	1830.2	1422.3	1110.2	958.5	876.3	854.6	854.1
20°	3238.9	3010.0	2486.1	1946.1	1462.6	1063.8	853.6	785.5	757.8	755.3	751.2
22.5°	3127.4	2857.7	2238.6	1632.0	1141.5	836.4	725.5	698.3	694.8	703.8	703.8
25°	3023.1	2706.5	1987.5	1324.5	887.9	697.8	647.9	642.3	651.9	668.0	669.6
27.5°	2925.8	2560.7	1742.5	1051.2	711.4	614.6	593.9	600.5	617.6	636.3	636.8
30°	2845.6	2423.1	1504.5	828.4	601.0	552.6	549.1	562.2	580.8	595.4	599.0
32.5°	2783.6	2305.6	1274.6	666.0	528.9	506.2	509.2	520.3	531.9	540.0	545.5
35°	2754.9	2204.8	1062.3	561.7	483.0	470.4	474.4	480.5	485.5	491.6	496.1
37.5°	2759.9	2126.6	872.7	496.6	452.3	445.7	445.7	445.7	445.7	448.7	449.2
40°	2806.8	2081.8	718.5	455.3	431.6	424.5	419.0	413.9	409.9	411.9	410.9
42.5°	2926.8	2077.7	605.5	429.1	414.9	403.3	392.3	385.2	380.2	382.2	383.2
45°	3130.5	2128.2	529.4	410.4	399.3	381.7	367.5	360.0	356.5	363.0	364.0
47.5°	3394.2	2238.1	483.0	396.8	384.7	361.5	346.4	339.3	340.3	349.9	352.4
50°	3734.0	2416.5	460.8	388.2	374.6	344.4	328.7	322.7	325.7	339.3	342.3
52.5°	4107.1	2673.7	463.3	385.7	368.1	331.8	315.1	308.1	313.1	325.7	328.2
55°	4537.6	2982.7	505.2	389.2	358.5	323.7	304.0	291.9	296.0	307.6	309.6
57.5°	5016.1	3336.7	589.4	388.2	346.4	316.1	292.4	274.3	277.3	284.4	286.4
60°	5514.2	3764.2	720.0	391.2	340.8	307.0	276.8	254.1	253.1	259.1	260.2
62.5°	6112.2	4258.8	869.2	393.3	344.4	295.5	256.1	233.9	230.9	232.4	233.4
65°	6728.3	4616.8	813.2	385.2	355.4	285.9	238.0	214.3	208.7	207.7	208.2
67.5°	6747.5	4233.1	570.2	369.1	360.0	280.8	224.4	197.6	188.6	185.0	184.5
70°	6051.2	3439.0	444.2	351.9	341.8	272.8	211.8	184.0	170.4	164.9	164.4
71°	5711.4	3165.8	421.0	343.3	328.2	264.7	206.2	178.0	163.9	157.8	156.8
72.5°	5178.5	2838.0	392.8	329.7	302.0	244.0	195.6	169.4	154.8	147.7	146.2
75°	3716.3	1855.9	337.3	293.9	250.1	194.6	171.4	152.3	139.7	131.1	130.1
77.5°	1431.9	738.6	255.1	244.5	191.6	152.3	141.2	131.6	122.5	113.9	113.4
80°	442.7	330.2	186.0	184.0	138.7	113.4	109.9	107.4	103.9	94.8	92.8
82.5°	236.5	189.6	128.1	119.0	90.8	75.6	79.7	80.7	81.2	71.6	70.6
85°	112.9	100.3	72.1	67.6	52.9	42.4	48.9	52.9	53.4	43.9	40.8
87.5°	53.9	52.4	33.8	25.7	19.7	14.1	17.1	21.2	23.2	16.6	14.6
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)