

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: P319656

Luminaire Tested: **GAN-SA2D-730-U-SL3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319656
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-SA2D-730-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 1200mA 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: 14458 lumens
Efficiency: N/A
Efficacy: 112.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

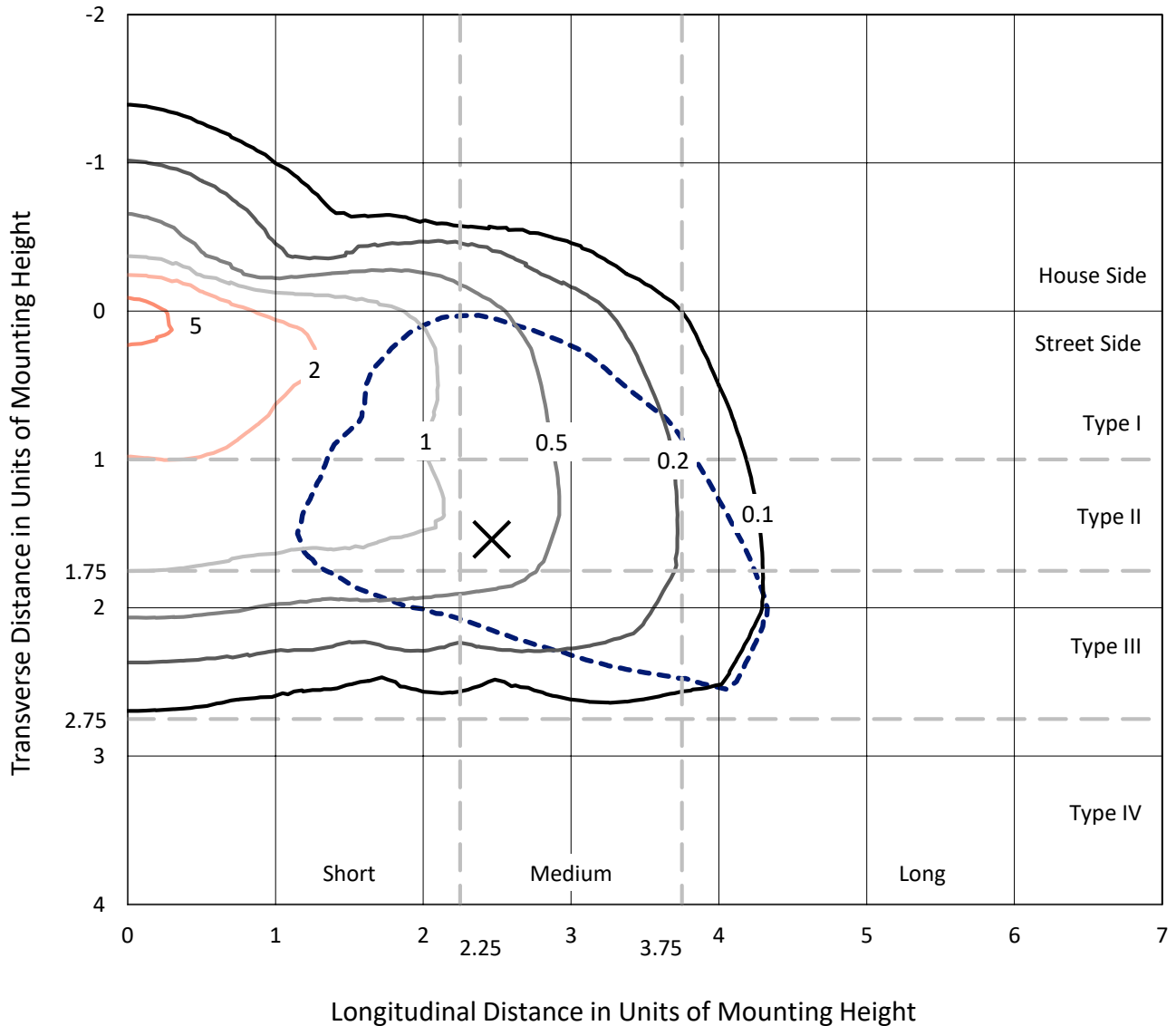
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

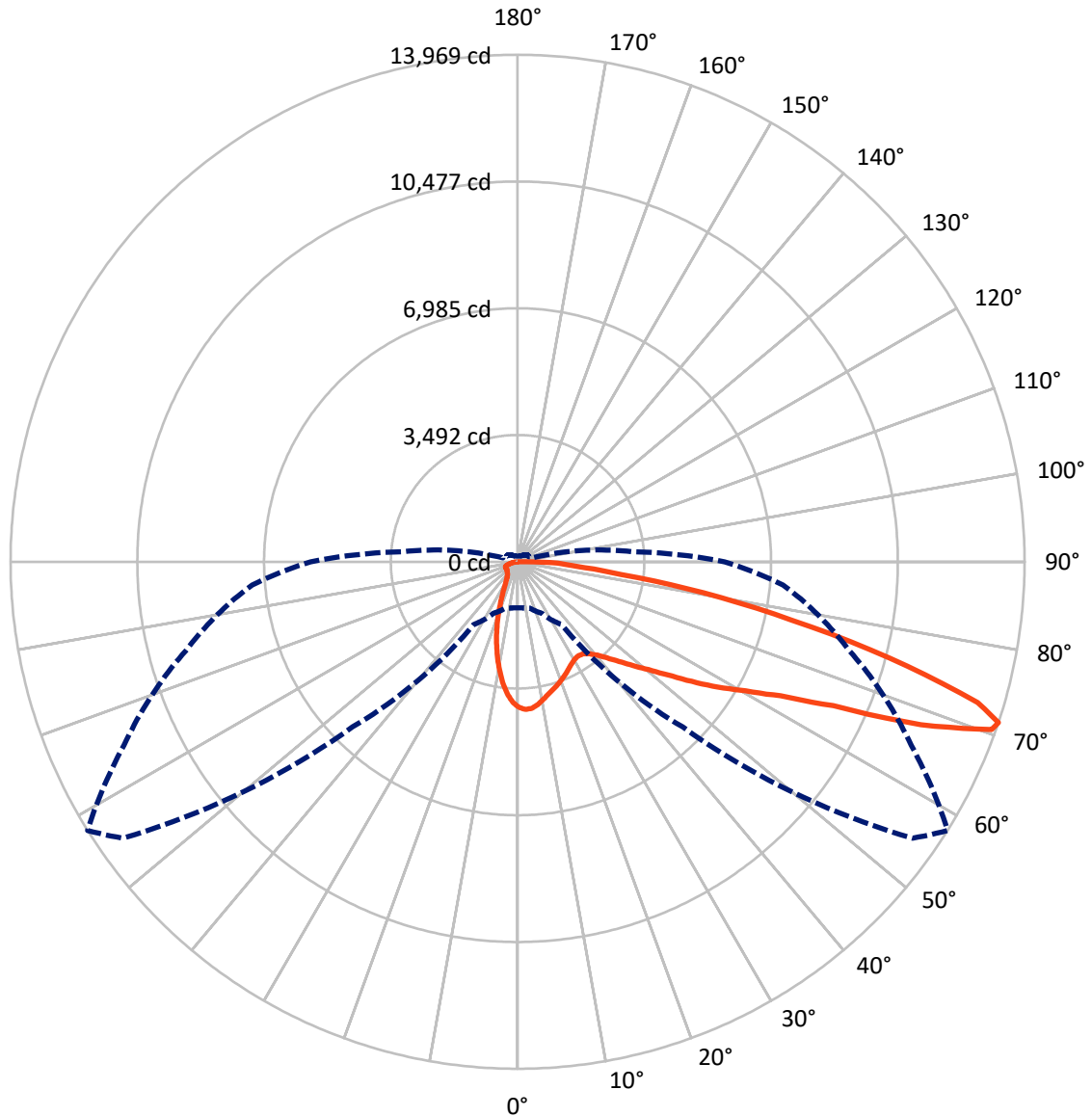
✕ Max cd
 - - - 1/2 Max cd



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	2161.6	0.0	2161.6
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	12296.4	0.0	12296.4
	% Fixture	85.0	0.0	85.0
Total	Lumens	14458.0	0.0	14458.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	345.6	2.4
10°-20°	768.4	5.3
20°-30°	976.6	6.8
30°-40°	1244.0	8.6
40°-50°	1764.1	12.2
50°-60°	2730.0	18.9
60°-70°	3716.5	25.7
70°-80°	2479.3	17.1
80°-90°	433.5	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°	14458.0	100.0
0°-180°	14458.0	100.0

Coefficient of Utilization

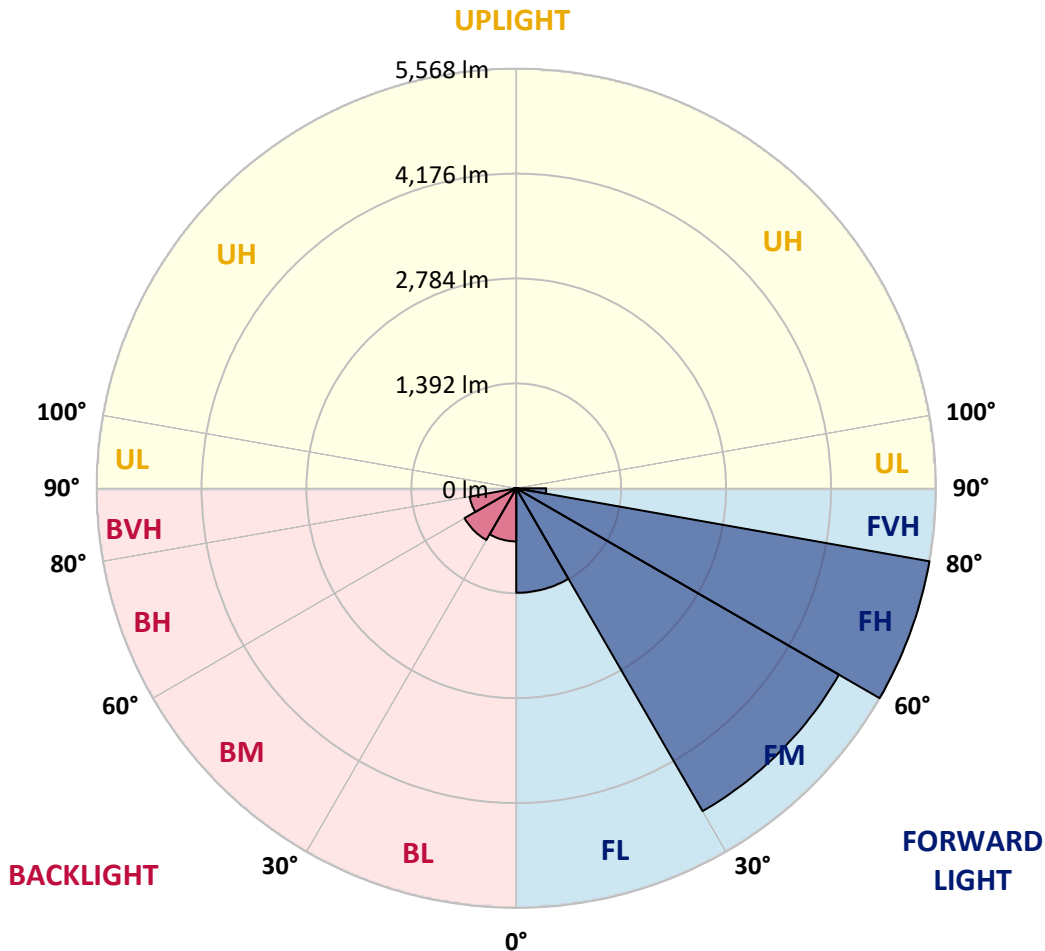


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1386.0	9.6			
FM (30°-60°)	4945.3	34.2			
FH (60°-80°)	5567.6	38.5			G3/7500
FVH (80°-90°)	397.5	2.7			G3/500
BL (0°-30°)	704.6	4.9	B2/1000		
BM (30°-60°)	792.7	5.5	B1/1000		
BH (60°-80°)	628.2	4.3	B2/1000		G2/1000
BVH (80°-90°)	36.0	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°	4005.8	4005.8	4005.8	4005.8	4005.8	4005.8	4005.8	4005.8	4005.8	4005.8	4005.8
2.5°	4112.1	4106.6	4108.6	4104.5	4095.0	4085.4	4071.3	4073.8	4054.2	4025.0	3988.7
5°	4034.5	4032.5	4047.6	4056.2	4063.2	4057.7	4053.7	4058.7	4030.0	3989.7	3926.8
7.5°	3871.9	3849.7	3868.8	3897.6	3924.7	3945.4	3972.6	3976.1	3958.0	3915.7	3833.1
10°	3640.7	3619.6	3647.8	3692.6	3747.0	3796.3	3851.2	3861.3	3864.8	3826.5	3726.3
12.5°	3401.0	3384.9	3413.1	3476.0	3566.2	3642.2	3729.8	3745.0	3776.2	3750.5	3627.6
15°	3186.4	3180.4	3214.6	3276.6	3380.3	3496.7	3623.1	3650.8	3703.7	3695.1	3550.6
17.5°	3001.1	2999.6	3025.8	3090.7	3205.6	3352.6	3516.8	3563.6	3642.2	3652.3	3487.1
20°	2863.1	2860.1	2878.2	2926.1	3044.4	3211.1	3402.0	3466.5	3579.8	3615.0	3421.6
22.5°	2789.1	2788.6	2789.1	2811.7	2908.4	3063.6	3290.2	3368.7	3518.8	3585.3	3349.1
25°	2776.5	2775.0	2763.9	2761.4	2816.3	2940.2	3179.4	3266.0	3460.9	3564.7	3280.1
27.5°	2809.2	2811.2	2796.6	2773.0	2784.0	2859.1	3083.2	3175.9	3414.6	3560.6	3232.3
30°	2877.2	2876.2	2863.6	2838.9	2817.3	2828.9	3014.7	3107.4	3383.4	3578.3	3199.5
32.5°	2952.2	2957.8	2955.3	2941.7	2909.4	2863.1	2994.1	3084.7	3374.3	3620.6	3185.4
35°	3042.4	3048.4	3066.6	3077.1	3039.4	2964.8	3038.4	3116.9	3400.5	3700.1	3208.1
37.5°	3128.0	3143.6	3194.5	3239.3	3207.1	3124.0	3156.2	3212.1	3481.6	3825.5	3269.0
40°	3226.7	3240.3	3323.4	3418.6	3413.6	3327.4	3346.1	3383.4	3624.6	4005.3	3379.3
42.5°	3323.9	3351.1	3471.5	3606.5	3645.2	3569.2	3598.9	3618.5	3826.0	4243.5	3571.7
45°	3453.4	3482.6	3649.8	3812.4	3903.1	3860.3	3907.6	3915.2	4079.4	4567.9	3851.2
47.5°	3649.3	3682.5	3877.4	4048.1	4186.6	4191.2	4269.2	4266.2	4395.6	4939.0	4203.3
50°	3954.5	4002.3	4162.0	4321.6	4489.8	4583.5	4687.7	4673.1	4774.9	5334.4	4608.7
52.5°	4354.3	4376.5	4494.9	4612.7	4821.7	5031.7	5181.3	5168.2	5205.0	5740.8	5069.0
55°	4768.8	4785.4	4834.3	4898.8	5179.8	5522.2	5838.5	5817.9	5724.7	6162.9	5523.8
57.5°	5141.5	5175.2	5209.0	5235.7	5540.4	6034.9	6510.9	6512.4	6288.8	6618.1	5993.6
60°	5199.4	5229.1	5452.2	5662.8	6157.3	6718.9	7230.5	7215.4	6872.5	7112.2	6517.4
62.5°	4596.1	4663.1	5035.7	5595.8	6751.6	7969.9	8148.7	8130.0	7570.5	7721.1	7127.3
65°	3293.7	3369.8	3819.5	4661.0	6463.5	9348.3	9805.6	9554.8	8522.3	8470.0	7841.4
67.5°	1900.2	1918.3	2113.2	2789.1	4921.4	9420.3	12333.3	11982.2	10000.5	9319.6	8191.0
70°	1405.1	1404.6	1450.9	1716.4	2663.2	7688.3	13535.4	13850.2	11556.7	9599.1	7696.9
71°	1270.6	1272.2	1324.0	1562.2	2109.2	6435.3	13280.1	13969.0	11966.6	9461.1	7339.3
72.5°	1086.8	1091.9	1163.9	1401.1	1774.3	4437.9	12180.2	13255.9	12161.0	9120.6	6779.8
75°	824.4	836.0	935.7	1181.0	1621.7	2250.7	8939.3	10585.2	10803.3	8047.9	5037.8
77.5°	588.2	601.3	714.1	993.1	1541.6	1696.2	5986.6	7721.1	7950.2	5157.6	2272.4
80°	371.7	387.3	472.4	790.2	1448.4	1610.6	3762.1	5189.9	4335.2	1650.4	578.2
82.5°	218.1	230.2	293.1	516.2	1183.0	1551.2	2213.4	2876.7	1687.1	498.6	262.9
85°	126.4	131.9	182.8	328.9	859.2	1464.0	1626.2	1608.1	732.3	243.8	124.4
87.5°	58.9	65.5	108.3	171.7	476.9	1061.1	1285.3	1110.5	455.3	114.3	58.4
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°	4005.8	4005.8	4005.8	4005.8	4005.8	4005.8	4005.8	4005.8	4005.8	4005.8	4005.8
2.5°	3971.1	3962.5	3926.8	3895.0	3861.8	3818.5	3770.6	3764.6	3735.4	3740.9	3730.9
5°	3892.5	3870.9	3784.7	3706.7	3614.5	3531.9	3442.3	3401.0	3341.6	3337.5	3322.4
7.5°	3780.2	3739.9	3606.5	3458.4	3310.3	3169.3	3029.8	2938.1	2844.5	2804.7	2801.2
10°	3653.8	3585.3	3388.9	3169.8	2956.3	2750.3	2550.9	2403.3	2270.3	2207.4	2204.9
12.5°	3533.9	3432.7	3163.3	2865.1	2573.0	2306.1	2032.6	1838.7	1672.0	1616.1	1592.5
15°	3432.2	3289.7	2943.7	2562.4	2207.9	1837.2	1526.0	1322.0	1167.9	1114.5	1104.4
17.5°	3333.5	3150.2	2718.6	2256.7	1828.2	1420.7	1109.0	957.4	875.3	853.6	853.1
20°	3235.3	3006.6	2483.4	1944.0	1461.0	1062.6	852.6	784.6	756.9	754.4	750.4
22.5°	3124.0	2854.5	2236.1	1630.2	1140.2	835.5	724.7	697.5	694.0	703.1	703.1
25°	3019.7	2703.5	1985.3	1323.0	886.9	697.0	647.2	641.6	651.2	667.3	668.8
27.5°	2922.5	2557.9	1740.5	1050.1	710.6	613.9	593.3	599.8	616.9	635.6	636.1
30°	2842.5	2420.4	1502.8	827.5	600.3	552.0	548.4	561.5	580.2	594.8	598.3
32.5°	2780.5	2303.1	1273.2	665.3	528.3	505.6	508.7	519.7	531.3	539.4	544.9
35°	2751.8	2202.4	1061.1	561.0	482.5	469.9	473.9	480.0	485.0	491.0	495.6
37.5°	2756.8	2124.3	871.8	496.1	451.8	445.2	445.2	445.2	445.2	448.2	448.7
40°	2803.7	2079.5	717.7	454.8	431.1	424.1	418.5	413.5	409.4	411.5	410.5
42.5°	2923.5	2075.4	604.9	428.6	414.5	402.9	391.8	384.8	379.7	381.7	382.8
45°	3127.0	2125.8	528.8	410.0	398.9	381.2	367.1	359.6	356.1	362.6	363.6
47.5°	3390.4	2235.6	482.5	396.4	384.3	361.1	346.0	338.9	339.9	349.5	352.0
50°	3729.8	2413.9	460.3	387.8	374.2	344.0	328.4	322.3	325.3	338.9	342.0
52.5°	4102.5	2670.7	462.8	385.3	367.6	331.4	314.8	307.7	312.8	325.3	327.9
55°	4532.6	2979.4	504.6	388.8	358.1	323.3	303.7	291.6	295.6	307.2	309.2
57.5°	5010.6	3333.0	588.7	387.8	346.0	315.8	292.1	274.0	277.0	284.0	286.1
60°	5508.1	3760.1	719.2	390.8	340.5	306.7	276.5	253.8	252.8	258.9	259.9
62.5°	6105.4	4254.1	868.2	392.8	344.0	295.1	255.8	233.7	230.7	232.2	233.2
65°	6720.9	4611.7	812.3	384.8	355.1	285.6	237.7	214.0	208.5	207.5	208.0
67.5°	6740.0	4228.4	569.6	368.7	359.6	280.5	224.1	197.4	188.4	184.8	184.3
70°	6044.5	3435.2	443.7	351.5	341.5	272.5	211.5	183.8	170.2	164.7	164.2
71°	5705.1	3162.3	420.5	343.0	327.9	264.4	206.0	177.8	163.7	157.6	156.6
72.5°	5172.7	2834.9	392.3	329.4	301.7	243.8	195.4	169.2	154.6	147.6	146.1
75°	3712.2	1853.8	336.9	293.6	249.8	194.4	171.2	152.1	139.5	130.9	129.9
77.5°	1430.3	737.8	254.8	244.3	191.4	152.1	141.0	131.4	122.4	113.8	113.3
80°	442.2	329.9	185.8	183.8	138.5	113.3	109.8	107.3	103.7	94.7	92.7
82.5°	236.2	189.4	127.9	118.9	90.7	75.5	79.6	80.6	81.1	71.5	70.5
85°	112.8	100.2	72.0	67.5	52.9	42.3	48.9	52.9	53.4	43.8	40.8
87.5°	53.9	52.4	33.7	25.7	19.6	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)