

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: P317869

Luminaire Tested: **GAN-SA5A-827-U-T3R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317869
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-10)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA5A-827-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17506 lumens
Efficiency: N/A
Efficacy: 108.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G3

Input Watts (W): 162
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

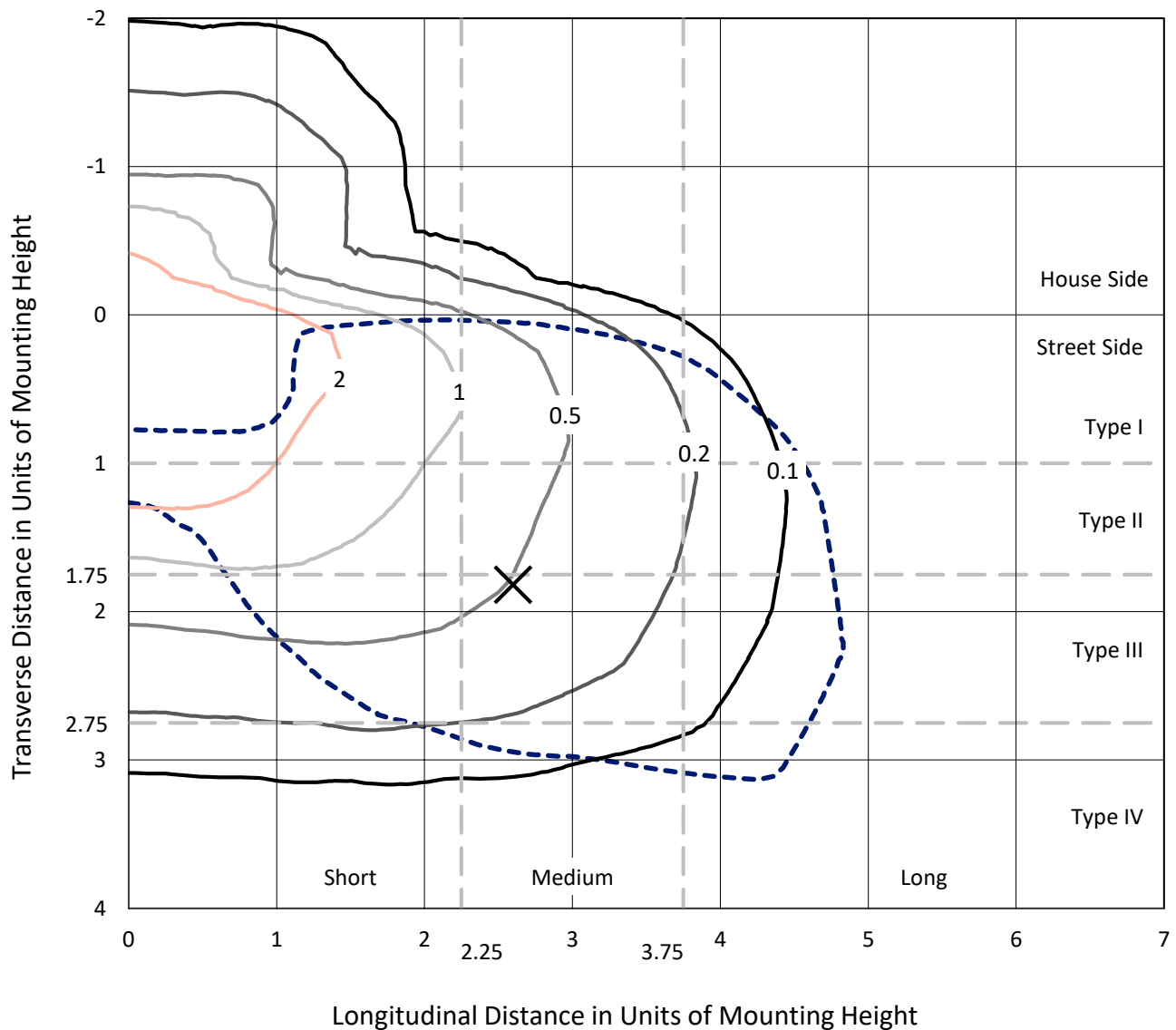


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Iso-Footcandle Lines of Horizontal Illumination

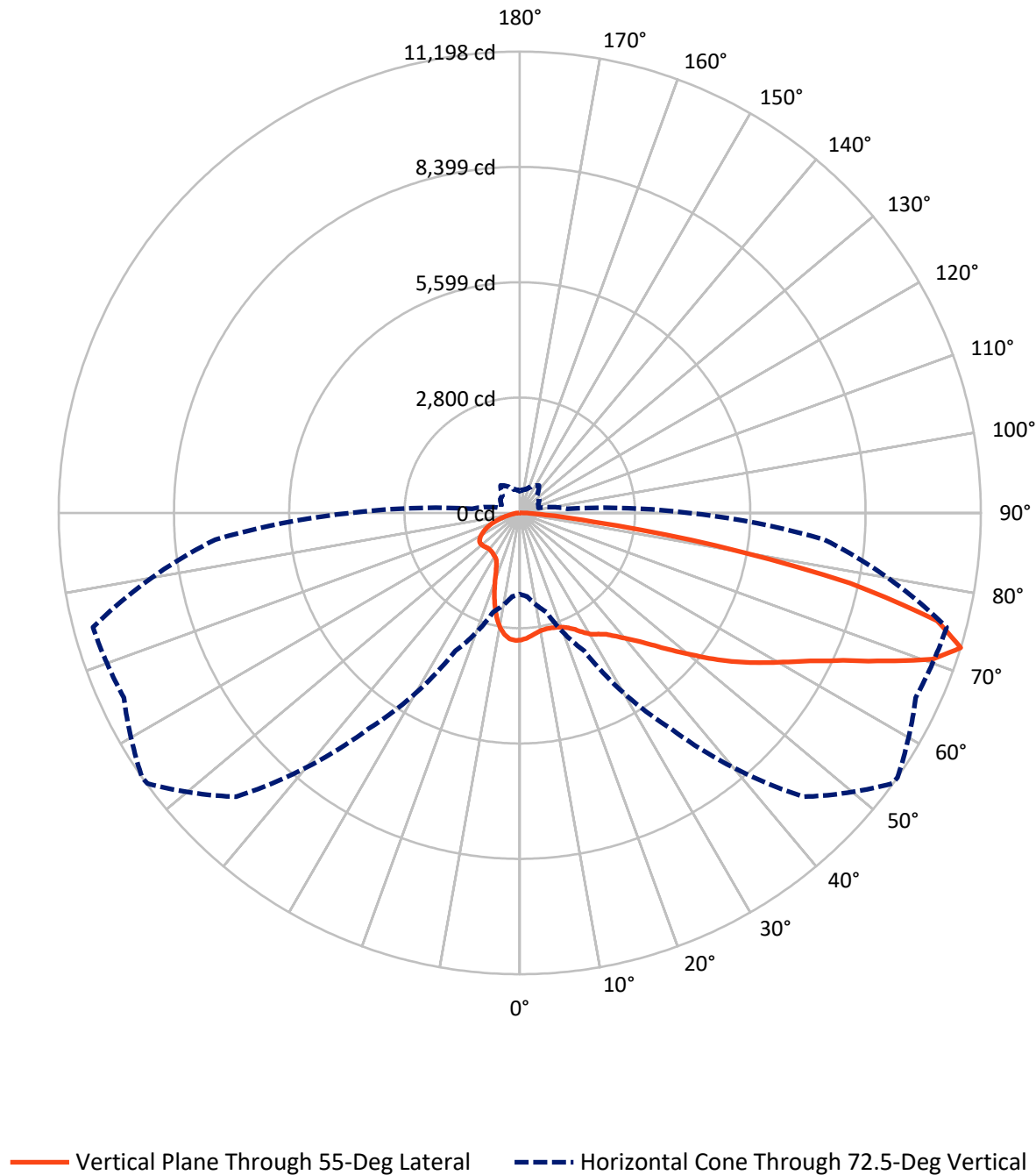
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3253.8	0.0	3253.8
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	14252.2	0.0	14252.2
	% Fixture	81.4	0.0	81.4
Total	Lumens	17506.0	0.0	17506.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	279.4	1.6
10°-20°	743.9	4.2
20°-30°	1226.4	7.0
30°-40°	1814.2	10.4
40°-50°	2532.3	14.5
50°-60°	3297.1	18.8
60°-70°	4052.0	23.1
70°-80°	3176.3	18.1
80°-90°	384.4	2.2
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°	17506.0	100.0
0°-180°	17506.0	100.0

Coefficient of Utilization



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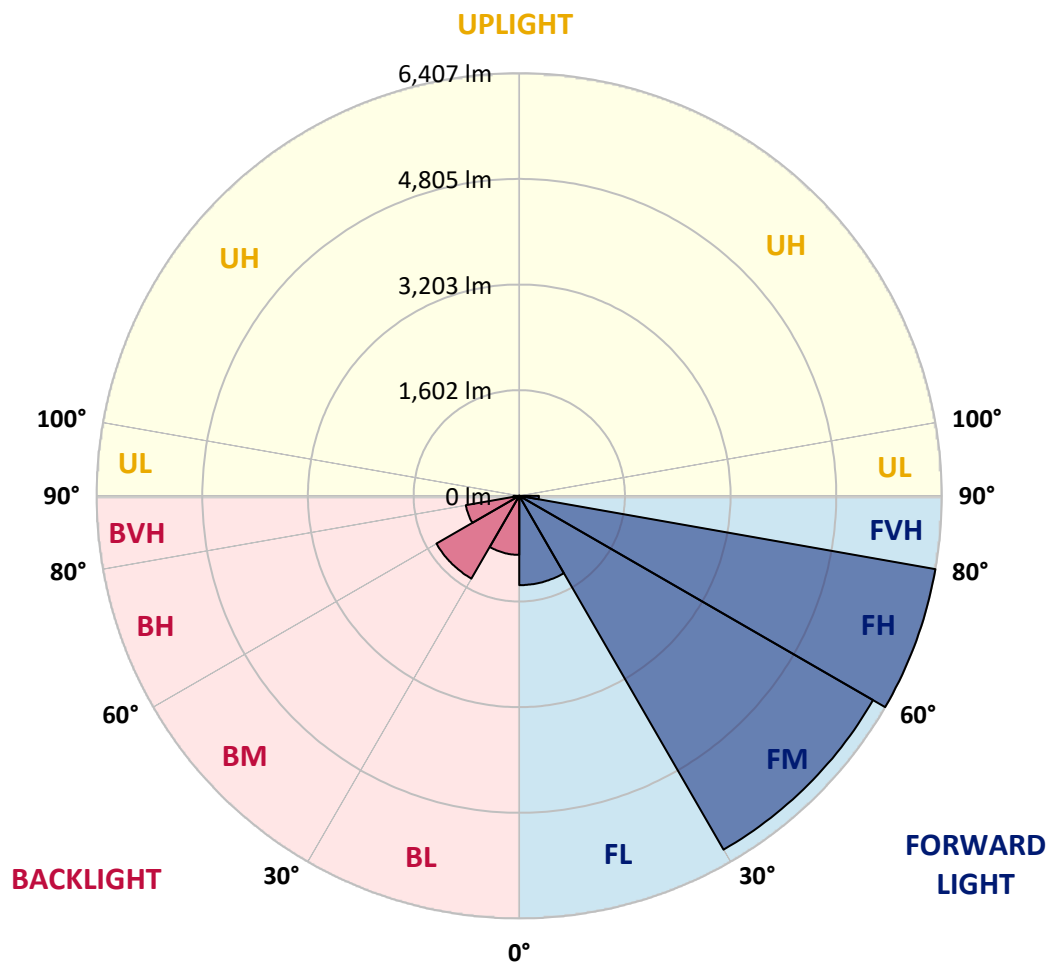
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1354.5	7.7			
FM	(30°-60°)	6194.0	35.4			
FH	(60°-80°)	6406.6	36.6			G3/7500
FVH	(80°-90°)	297.2	1.7			G3/500
BL	(0°-30°)	895.3	5.1	B2/1000		
BM	(30°-60°)	1449.6	8.3	B2/2500		
BH	(60°-80°)	821.7	4.7	B2/1000		G2/1000
BVH	(80°-90°)	87.2	0.5			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 IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	3087.7	3087.7	3087.7	3087.7	3087.7	3087.7	3087.7	3087.7	3087.7	3087.7	3087.7
2.5°	2987.2	2980.1	2988.9	3001.4	3015.0	3033.3	3043.9	3048.7	3067.0	3074.1	3089.5
5°	2848.8	2845.3	2860.0	2881.3	2911.5	2954.1	2988.3	2994.9	3043.3	3077.6	3109.0
7.5°	2748.3	2748.3	2765.4	2790.9	2824.6	2881.9	2930.4	2939.3	3021.5	3095.4	3153.3
10°	2668.5	2671.4	2691.5	2721.7	2761.3	2822.2	2886.6	2896.7	3015.5	3136.8	3229.0
12.5°	2615.2	2622.3	2640.7	2667.9	2716.9	2790.9	2872.5	2886.1	3028.0	3195.9	3320.1
15°	2648.9	2660.8	2662.5	2673.8	2701.0	2781.4	2880.7	2894.9	3054.6	3256.2	3423.5
17.5°	2796.8	2800.9	2782.6	2758.9	2745.9	2797.4	2905.6	2920.3	3086.5	3315.9	3522.9
20°	3021.5	3019.1	2979.5	2915.6	2849.4	2857.7	2946.4	2961.7	3129.7	3368.5	3622.2
22.5°	3305.3	3297.0	3236.1	3118.4	3005.5	2958.2	3017.9	3030.9	3194.7	3443.6	3728.6
25°	3649.4	3631.1	3550.7	3392.8	3226.6	3104.8	3125.5	3137.9	3289.3	3527.6	3826.2
27.5°	4012.4	3994.1	3891.8	3700.8	3479.7	3289.9	3273.9	3284.6	3396.9	3589.7	3898.3
30°	4392.1	4372.5	4279.1	4065.1	3748.1	3481.5	3412.3	3416.4	3472.6	3623.4	3957.5
32.5°	4773.4	4755.1	4650.4	4402.1	4039.6	3687.2	3512.2	3506.9	3518.1	3658.3	4024.3
35°	5160.1	5167.2	5044.8	4769.9	4362.5	3916.1	3630.5	3619.2	3594.4	3729.8	4118.9
37.5°	5574.0	5569.3	5410.8	5123.5	4700.1	4164.4	3800.2	3798.4	3712.7	3865.2	4267.3
40°	5850.7	5853.7	5757.3	5485.3	5041.3	4439.4	4017.8	4013.6	3901.3	4068.0	4461.8
42.5°	5959.0	5978.5	6003.3	5830.6	5398.4	4758.1	4277.3	4271.4	4164.4	4358.9	4690.7
45°	5966.6	6005.7	6159.4	6137.5	5760.3	5122.9	4609.1	4592.5	4515.6	4745.6	4963.8
47.5°	5900.4	5940.6	6196.1	6320.2	6083.7	5507.8	4996.9	4983.9	4917.7	5229.3	5259.5
50°	5755.6	5794.0	6120.4	6409.5	6349.8	5877.9	5443.9	5409.7	5374.2	5788.1	5597.7
52.5°	5484.2	5558.1	6019.3	6430.8	6508.8	6206.7	5914.0	5891.5	5911.1	6377.6	5936.5
55°	4841.4	4924.2	5758.5	6413.1	6626.5	6482.8	6384.1	6382.9	6484.0	6996.1	6300.1
57.5°	4481.3	4539.9	5227.5	6382.9	6766.1	6757.2	6849.4	6860.7	7057.6	7669.5	6680.9
60°	4277.9	4339.4	4958.5	6271.2	6982.5	7112.0	7324.2	7346.7	7640.6	8415.1	7139.2
62.5°	4092.9	4160.3	4791.8	6043.5	7237.3	7619.3	7893.0	7913.1	8257.9	9181.4	7582.0
65°	3776.5	3852.8	4547.6	5893.9	7469.1	8280.9	8616.2	8629.8	8966.8	9984.4	7920.8
67.5°	3329.5	3399.3	4087.0	5563.4	7640.6	9084.5	9577.6	9585.3	9669.8	10551.5	8094.1
70°	2807.4	2834.0	3430.6	4881.0	7437.8	9836.0	10631.3	10633.0	10310.8	10914.5	8065.7
72.5°	1972.5	2035.2	2490.5	3694.9	6391.8	9744.3	11178.2	11198.3	10608.8	10731.2	7421.2
75°	1209.8	1276.0	1562.2	2239.2	4055.0	7663.6	10327.9	10467.5	10050.0	9568.1	6062.4
77.5°	808.9	833.7	1019.4	1305.6	1837.1	4409.2	7940.3	8202.9	8348.9	6977.7	3877.0
80°	451.1	498.5	675.8	811.2	817.2	1752.0	4761.0	4822.5	4645.1	2778.4	1196.2
82.5°	238.9	264.9	451.1	476.6	445.8	586.6	1774.4	1776.2	1484.1	745.0	355.4
85°	185.1	206.9	309.2	290.9	227.6	260.2	585.4	617.3	505.0	305.1	115.9
87.5°	92.2	114.7	209.9	184.5	89.3	74.5	209.3	223.5	199.3	119.4	42.0
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°	3087.7	3087.7	3087.7	3087.7	3087.7	3087.7	3087.7	3087.7	3087.7	3087.7	3087.7
2.5°	3095.4	3100.7	3107.2	3100.1	3097.7	3088.3	3072.3	3068.8	3060.5	3061.1	3065.8
5°	3122.6	3131.4	3127.9	3100.7	3068.2	3022.6	2975.3	2935.1	2908.5	2906.7	2905.0
7.5°	3174.6	3180.5	3152.7	3075.3	2984.2	2879.0	2779.6	2692.7	2640.1	2627.1	2624.1
10°	3256.2	3255.0	3178.7	3022.6	2841.1	2653.1	2493.4	2372.8	2302.5	2281.8	2276.4
12.5°	3347.3	3333.7	3187.6	2926.9	2638.9	2378.1	2175.9	2041.7	1968.4	1944.7	1938.8
15°	3441.3	3407.6	3165.7	2783.8	2390.6	2081.9	1869.6	1745.5	1705.9	1692.8	1690.5
17.5°	3528.8	3463.7	3103.1	2589.8	2107.3	1786.9	1621.3	1571.6	1581.1	1598.2	1598.8
20°	3614.5	3501.6	3002.5	2345.0	1808.7	1543.8	1487.7	1524.3	1569.3	1604.2	1608.9
22.5°	3699.1	3528.2	2873.0	2062.4	1541.5	1407.3	1446.9	1513.7	1565.1	1603.0	1609.5
25°	3770.0	3534.7	2694.5	1760.8	1355.8	1355.8	1427.4	1490.6	1541.5	1578.7	1585.2
27.5°	3796.0	3490.9	2442.6	1481.8	1262.4	1332.2	1400.2	1452.8	1495.9	1535.6	1542.7
30°	3806.1	3409.9	2151.7	1257.7	1224.0	1306.7	1363.5	1408.4	1449.2	1486.5	1493.0
32.5°	3807.9	3312.4	1843.0	1130.5	1197.3	1280.1	1318.0	1357.6	1401.3	1416.1	1418.5
35°	3819.1	3197.1	1517.8	1065.5	1172.5	1255.3	1285.5	1313.8	1242.9	1248.2	1252.9
37.5°	3851.6	3083.0	1245.8	1028.8	1156.6	1242.3	1278.4	1175.5	1119.9	1106.9	1105.1
40°	3912.5	2961.1	1044.2	999.3	1150.6	1248.8	1232.8	1097.4	1001.6	930.1	919.4
42.5°	3997.1	2829.9	915.3	979.8	1154.8	1280.1	1169.6	1022.3	863.3	817.2	811.2
45°	4092.3	2692.1	845.5	966.2	1169.0	1304.4	1156.6	922.4	798.8	763.9	761.0
47.5°	4184.5	2523.6	809.5	960.2	1188.5	1284.9	1101.6	891.7	768.1	749.7	751.5
50°	4290.4	2371.6	787.6	953.7	1205.6	1272.4	1039.5	875.7	756.3	778.7	802.4
52.5°	4379.6	2214.4	768.1	940.7	1212.1	1250.6	1023.5	878.6	756.3	799.4	821.9
55°	4485.5	2095.5	745.6	913.5	1199.7	1188.5	1012.3	896.4	765.1	737.9	740.3
57.5°	4622.1	2056.5	720.8	871.0	1158.3	1098.0	1007.0	913.5	759.8	742.7	748.6
60°	4811.3	2097.9	710.7	815.4	1093.9	1027.1	1007.5	904.7	722.5	693.0	693.6
62.5°	4991.6	2144.0	710.1	780.5	1014.6	963.8	993.9	875.7	703.6	686.5	693.0
65°	5050.7	2097.3	681.7	741.5	925.4	888.1	969.1	844.9	689.4	663.4	662.2
67.5°	4971.5	1952.4	624.4	678.2	823.1	800.0	936.6	808.3	667.0	645.7	642.1
70°	4736.2	1629.0	553.4	594.8	706.6	700.7	885.2	765.7	636.8	618.5	603.1
72.5°	4102.9	1160.7	466.5	494.9	575.3	594.2	814.2	710.1	594.2	554.6	531.0
75°	3369.7	859.1	383.2	389.1	437.0	488.4	716.6	645.1	544.0	476.6	458.2
77.5°	2063.6	525.7	305.1	307.5	313.4	389.7	590.1	572.4	480.1	397.3	384.3
80°	668.2	286.8	220.5	231.8	214.0	285.6	456.5	487.2	412.1	332.3	318.1
82.5°	254.3	167.3	149.0	156.7	148.4	191.6	332.9	390.2	337.6	273.2	222.3
85°	123.0	94.6	88.1	98.7	91.6	98.2	212.9	287.4	256.0	178.0	165.6
87.5°	43.8	42.0	33.7	45.5	39.0	34.9	65.0	144.9	169.1	122.4	109.4
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)