

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: P317708

Luminaire Tested: **GAN-SA4A-730-U-T3R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317708
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-SA4A-730-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 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: 17504 lumens
Efficiency: N/A
Efficacy: 135.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G3

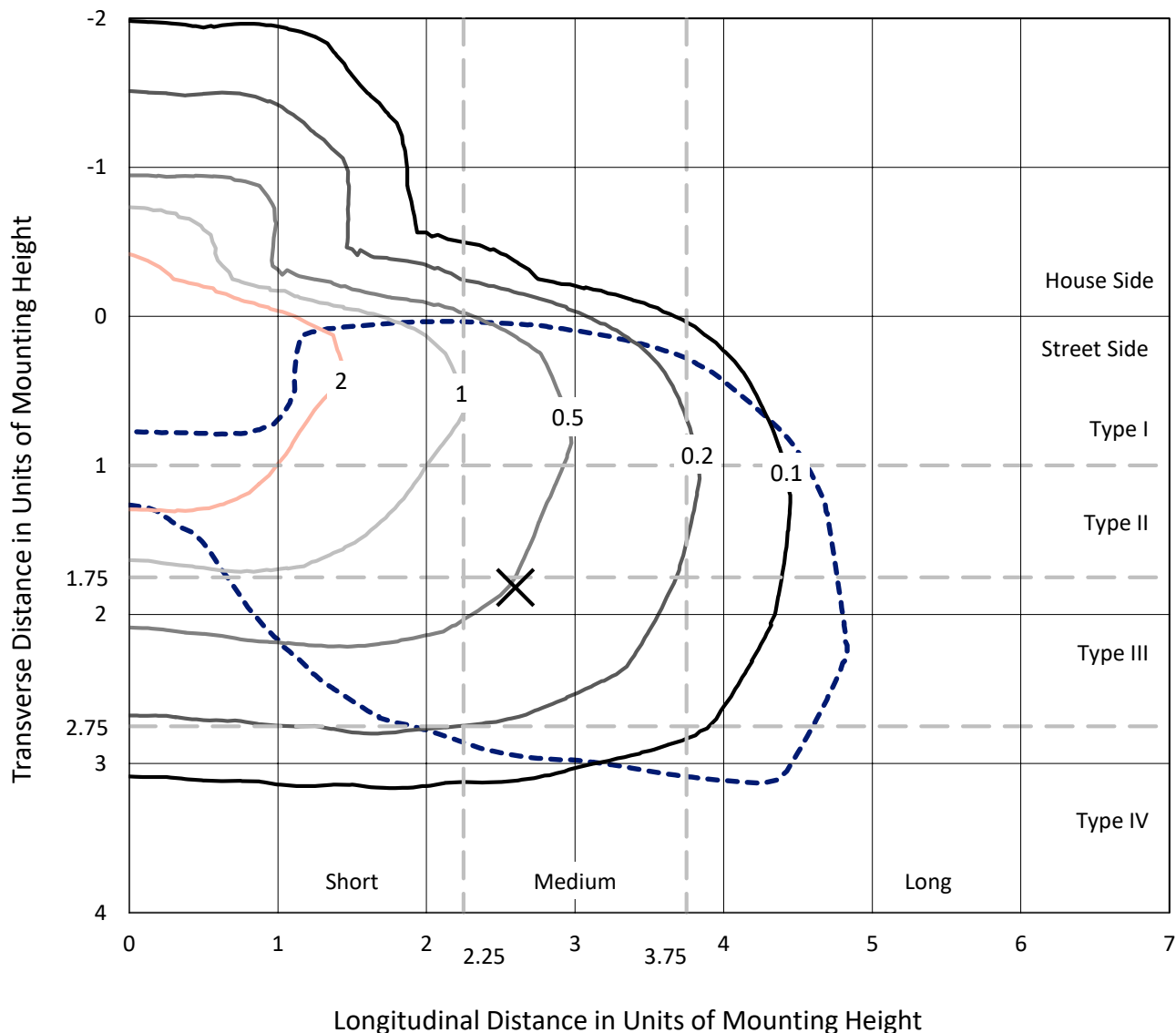
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

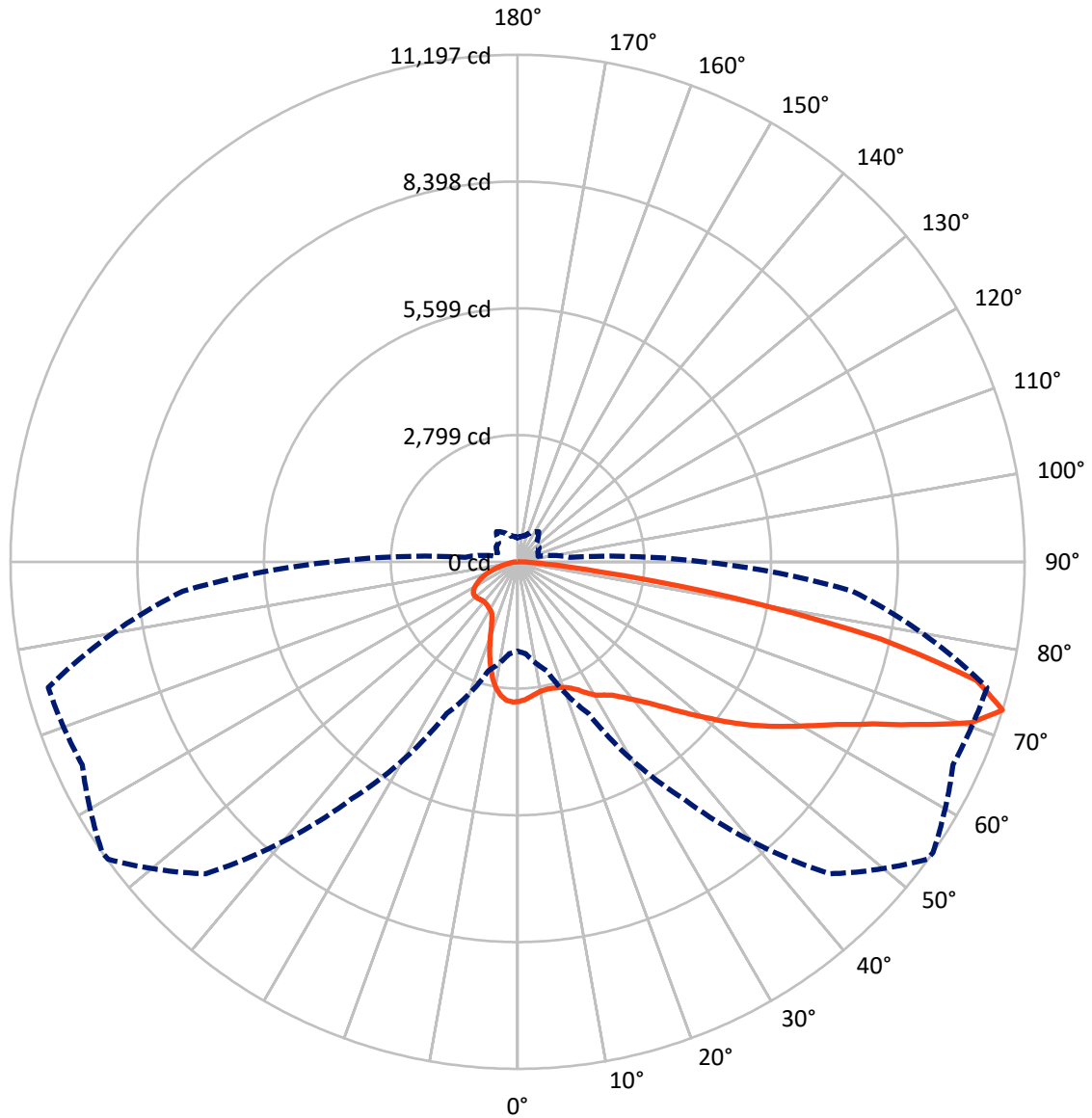
✕ Max cd
 - - - 1/2 Max cd



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

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CATALOG NUMBER: GAN-SA4A-730-U-T3R

Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3253.4	0.0	3253.4
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	14250.6	0.0	14250.6
	% Fixture	81.4	0.0	81.4
Total	Lumens	17504.0	0.0	17504.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	279.4	1.6
10°-20°	743.8	4.2
20°-30°	1226.3	7.0
30°-40°	1814.0	10.4
40°-50°	2532.0	14.5
50°-60°	3296.7	18.8
60°-70°	4051.6	23.1
70°-80°	3175.9	18.1
80°-90°	384.3	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°	17504.0	100.0
0°-180°	17504.0	100.0

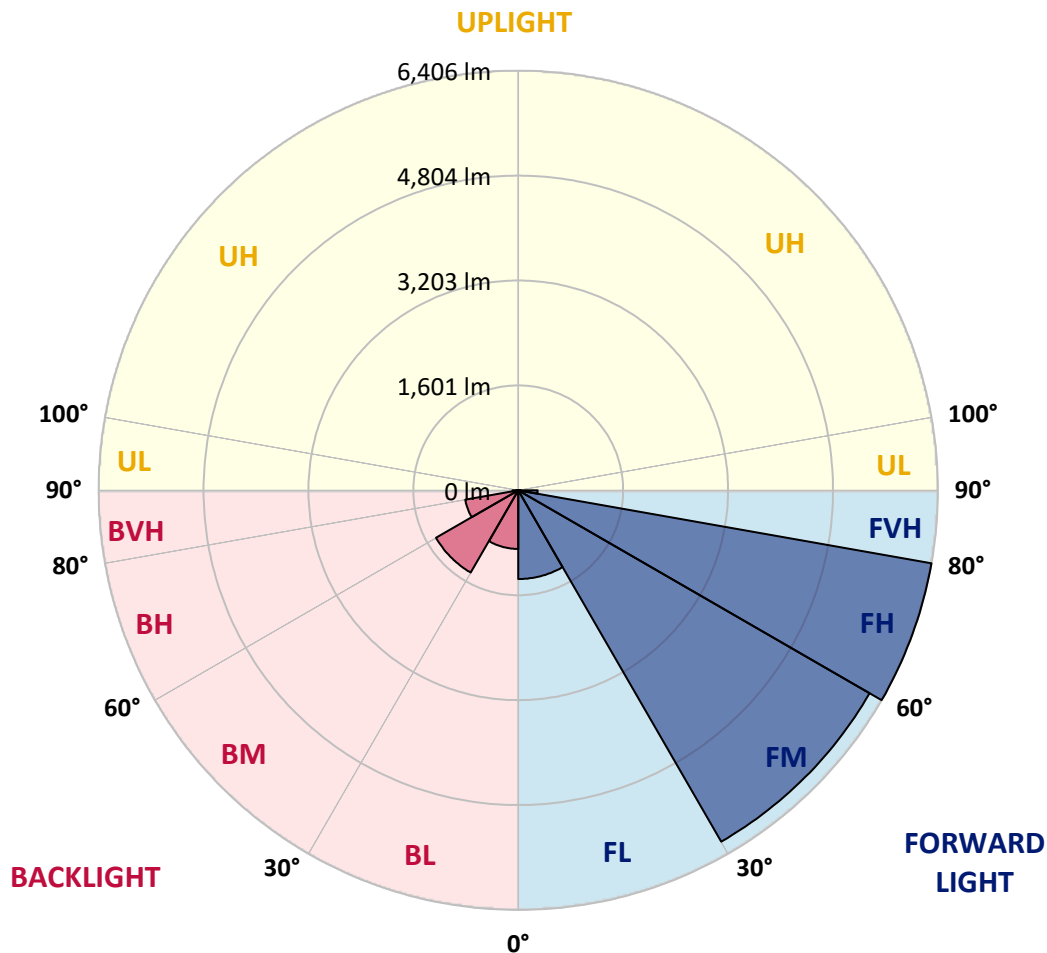


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1354.3	7.7			
FM (30°-60°)	6193.3	35.4			
FH (60°-80°)	6405.9	36.6			G3/7500
FVH (80°-90°)	297.1	1.7			G3/500
BL (0°-30°)	895.2	5.1	B2/1000		
BM (30°-60°)	1449.4	8.3	B2/2500		
BH (60°-80°)	821.6	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°	3087.3	3087.3	3087.3	3087.3	3087.3	3087.3	3087.3	3087.3	3087.3	3087.3	3087.3
2.5°	2986.8	2979.7	2988.6	3001.0	3014.6	3032.9	3043.6	3048.3	3066.6	3073.7	3089.1
5°	2848.5	2844.9	2859.7	2881.0	2911.1	2953.7	2988.0	2994.5	3043.0	3077.3	3108.6
7.5°	2748.0	2748.0	2765.1	2790.5	2824.2	2881.6	2930.1	2938.9	3021.1	3095.0	3153.0
10°	2668.2	2671.1	2691.2	2721.4	2761.0	2821.9	2886.3	2896.4	3015.2	3136.4	3228.6
12.5°	2614.9	2622.0	2640.4	2667.6	2716.6	2790.5	2872.1	2885.7	3027.6	3195.5	3319.7
15°	2648.6	2660.5	2662.2	2673.5	2700.7	2781.1	2880.4	2894.6	3054.2	3255.8	3423.1
17.5°	2796.5	2800.6	2782.3	2758.6	2745.6	2797.0	2905.2	2920.0	3086.1	3315.5	3522.5
20°	3021.1	3018.7	2979.1	2915.3	2849.1	2857.3	2946.0	2961.4	3129.3	3368.2	3621.8
22.5°	3304.9	3296.6	3235.7	3118.1	3005.1	2957.9	3017.6	3030.6	3194.3	3443.2	3728.2
25°	3649.0	3630.7	3550.3	3392.4	3226.3	3104.5	3125.2	3137.6	3288.9	3527.2	3825.8
27.5°	4012.0	3993.7	3891.4	3700.4	3479.3	3289.5	3273.6	3284.2	3396.5	3589.3	3897.9
30°	4391.6	4372.0	4278.6	4064.6	3747.7	3481.1	3411.9	3416.0	3472.2	3623.0	3957.0
32.5°	4772.9	4754.6	4649.9	4401.6	4039.2	3686.8	3511.8	3506.5	3517.7	3657.9	4023.8
35°	5159.5	5166.6	5044.3	4769.3	4362.0	3915.6	3630.1	3618.8	3594.0	3729.4	4118.4
37.5°	5573.4	5568.7	5410.2	5122.9	4699.6	4163.9	3799.7	3798.0	3712.2	3864.8	4266.8
40°	5850.1	5853.0	5756.7	5484.7	5040.7	4438.8	4017.3	4013.2	3900.8	4067.6	4461.3
42.5°	5958.3	5977.8	6002.6	5830.0	5397.8	4757.5	4276.9	4270.9	4163.9	4358.4	4690.1
45°	5966.0	6005.0	6158.7	6136.8	5759.6	5122.3	4608.5	4592.0	4515.1	4745.1	4963.3
47.5°	5899.7	5939.9	6195.4	6319.5	6083.0	5507.2	4996.4	4983.4	4917.1	5228.7	5258.9
50°	5754.9	5793.3	6119.7	6408.8	6349.1	5877.3	5443.3	5409.0	5373.6	5787.4	5597.0
52.5°	5483.5	5557.4	6018.6	6430.1	6508.1	6206.0	5913.3	5890.9	5910.4	6376.9	5935.8
55°	4840.9	4923.6	5757.9	6412.3	6625.8	6482.1	6383.4	6382.2	6483.3	6995.3	6299.4
57.5°	4480.8	4539.4	5226.9	6382.2	6765.3	6756.4	6848.6	6859.9	7056.8	7668.7	6680.1
60°	4277.4	4338.9	4957.9	6270.4	6981.7	7111.1	7323.4	7345.9	7639.7	8414.2	7138.3
62.5°	4092.4	4159.8	4791.2	6042.8	7236.5	7618.4	7892.1	7912.2	8256.9	9180.4	7581.2
65°	3776.1	3852.4	4547.0	5893.2	7468.2	8280.0	8615.2	8628.8	8965.8	9983.3	7919.9
67.5°	3329.1	3398.9	4086.5	5562.7	7639.7	9083.4	9576.5	9584.2	9668.7	10550.2	8093.2
70°	2807.1	2833.7	3430.2	4880.5	7436.9	9834.9	10630.1	10631.8	10309.6	10913.3	8064.8
72.5°	1972.3	2035.0	2490.2	3694.5	6391.0	9743.2	11176.9	11197.0	10607.6	10730.0	7420.3
75°	1209.6	1275.8	1562.0	2238.9	4054.6	7662.7	10326.8	10466.3	10048.9	9567.1	6061.7
77.5°	808.8	833.6	1019.3	1305.4	1836.9	4408.7	7939.4	8201.9	8348.0	6976.9	3876.6
80°	451.1	498.4	675.8	811.1	817.1	1751.8	4760.5	4822.0	4644.6	2778.1	1196.0
82.5°	238.9	264.9	451.1	476.5	445.8	586.5	1774.2	1776.0	1484.0	744.9	355.3
85°	185.1	206.9	309.2	290.9	227.6	260.1	585.3	617.2	504.9	305.1	115.9
87.5°	92.2	114.7	209.9	184.5	89.3	74.5	209.3	223.5	199.2	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°	3087.3	3087.3	3087.3	3087.3	3087.3	3087.3	3087.3	3087.3	3087.3	3087.3	3087.3
2.5°	3095.0	3100.3	3106.8	3099.7	3097.4	3087.9	3072.0	3068.4	3060.1	3060.7	3065.5
5°	3122.2	3131.1	3127.5	3100.3	3067.8	3022.3	2975.0	2934.8	2908.2	2906.4	2904.6
7.5°	3174.2	3180.1	3152.4	3074.9	2983.9	2878.6	2779.3	2692.4	2639.8	2626.8	2623.8
10°	3255.8	3254.6	3178.4	3022.3	2840.8	2652.8	2493.2	2372.5	2302.2	2281.5	2276.2
12.5°	3346.9	3333.3	3187.2	2926.5	2638.6	2377.9	2175.7	2041.5	1968.2	1944.5	1938.6
15°	3440.9	3407.2	3165.4	2783.4	2390.3	2081.7	1869.4	1745.3	1705.7	1692.7	1690.3
17.5°	3528.4	3463.3	3102.7	2589.5	2107.1	1786.7	1621.1	1571.5	1580.9	1598.1	1598.6
20°	3614.1	3501.2	3002.2	2344.8	1808.5	1543.7	1487.5	1524.2	1569.1	1604.0	1608.7
22.5°	3698.6	3527.8	2872.7	2062.2	1541.3	1407.1	1446.7	1513.5	1564.9	1602.8	1609.3
25°	3769.6	3534.3	2694.2	1760.6	1355.7	1355.7	1427.2	1490.5	1541.3	1578.5	1585.0
27.5°	3795.6	3490.5	2442.3	1481.6	1262.2	1332.0	1400.0	1452.6	1495.8	1535.4	1542.5
30°	3805.7	3409.5	2151.4	1257.5	1223.8	1306.6	1363.3	1408.3	1449.1	1486.3	1492.8
32.5°	3807.4	3312.0	1842.8	1130.4	1197.2	1280.0	1317.8	1357.4	1401.2	1416.0	1418.3
35°	3818.7	3196.7	1517.7	1065.4	1172.4	1255.2	1285.3	1313.7	1242.7	1248.1	1252.8
37.5°	3851.2	3082.6	1245.7	1028.7	1156.4	1242.1	1278.2	1175.3	1119.8	1106.8	1105.0
40°	3912.1	2960.8	1044.1	999.2	1150.5	1248.6	1232.7	1097.3	1001.5	930.0	919.3
42.5°	3996.6	2829.6	915.2	979.6	1154.6	1280.0	1169.4	1022.2	863.2	817.1	811.1
45°	4091.8	2691.8	845.4	966.0	1168.8	1304.2	1156.4	922.3	798.7	763.9	760.9
47.5°	4184.0	2523.3	809.4	960.1	1188.3	1284.7	1101.4	891.6	768.0	749.7	751.4
50°	4289.9	2371.4	787.5	953.6	1205.5	1272.3	1039.4	875.6	756.2	778.6	802.3
52.5°	4379.1	2214.1	768.0	940.6	1212.0	1250.4	1023.4	878.5	756.2	799.3	821.8
55°	4485.0	2095.3	745.5	913.4	1199.6	1188.3	1012.2	896.3	765.0	737.8	740.2
57.5°	4621.5	2056.2	720.7	870.9	1158.2	1097.9	1006.8	913.4	759.7	742.6	748.5
60°	4810.7	2097.6	710.6	815.3	1093.7	1026.9	1007.4	904.6	722.5	692.9	693.5
62.5°	4991.0	2143.7	710.1	780.4	1014.5	963.7	993.8	875.6	703.5	686.4	692.9
65°	5050.2	2097.0	681.7	741.4	925.3	888.0	969.0	844.8	689.4	663.3	662.2
67.5°	4970.9	1952.2	624.3	678.1	823.0	799.9	936.5	808.2	666.9	645.6	642.1
70°	4735.6	1628.8	553.4	594.8	706.5	700.6	885.1	765.6	636.7	618.4	603.0
72.5°	4102.4	1160.6	466.5	494.8	575.3	594.2	814.1	710.1	594.2	554.6	530.9
75°	3369.3	859.0	383.1	389.0	436.9	488.3	716.6	645.0	543.9	476.5	458.2
77.5°	2063.3	525.6	305.1	307.4	313.3	389.6	590.0	572.3	480.1	397.3	384.3
80°	668.1	286.7	220.5	231.8	214.0	285.6	456.4	487.2	412.1	332.3	318.1
82.5°	254.2	167.3	149.0	156.7	148.4	191.6	332.9	390.2	337.6	273.1	222.3
85°	123.0	94.6	88.1	98.7	91.6	98.1	212.8	287.3	256.0	178.0	165.5
87.5°	43.7	42.0	33.7	45.5	39.0	34.9	65.0	144.8	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)