

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: P192633

Luminaire Tested: **GAN-AF-05-LED-U-5WQ-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192633
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24143)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-05-LED-U-5WQ-7030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30307.4 lumens
Efficiency: N/A
Efficacy: 108.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B5 - U0 - G4

Input Watts (W): 279
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: 28.75 FT

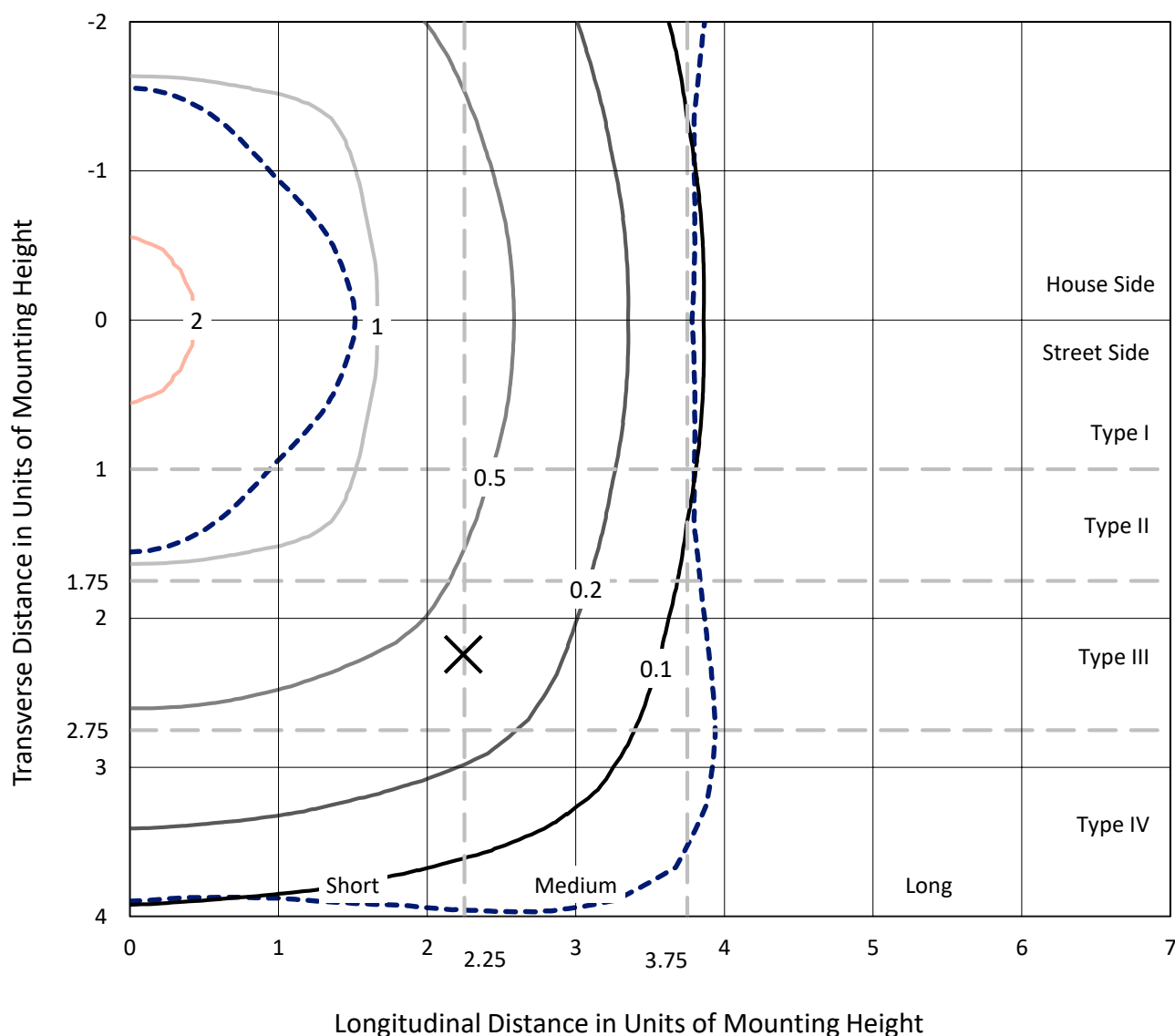


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

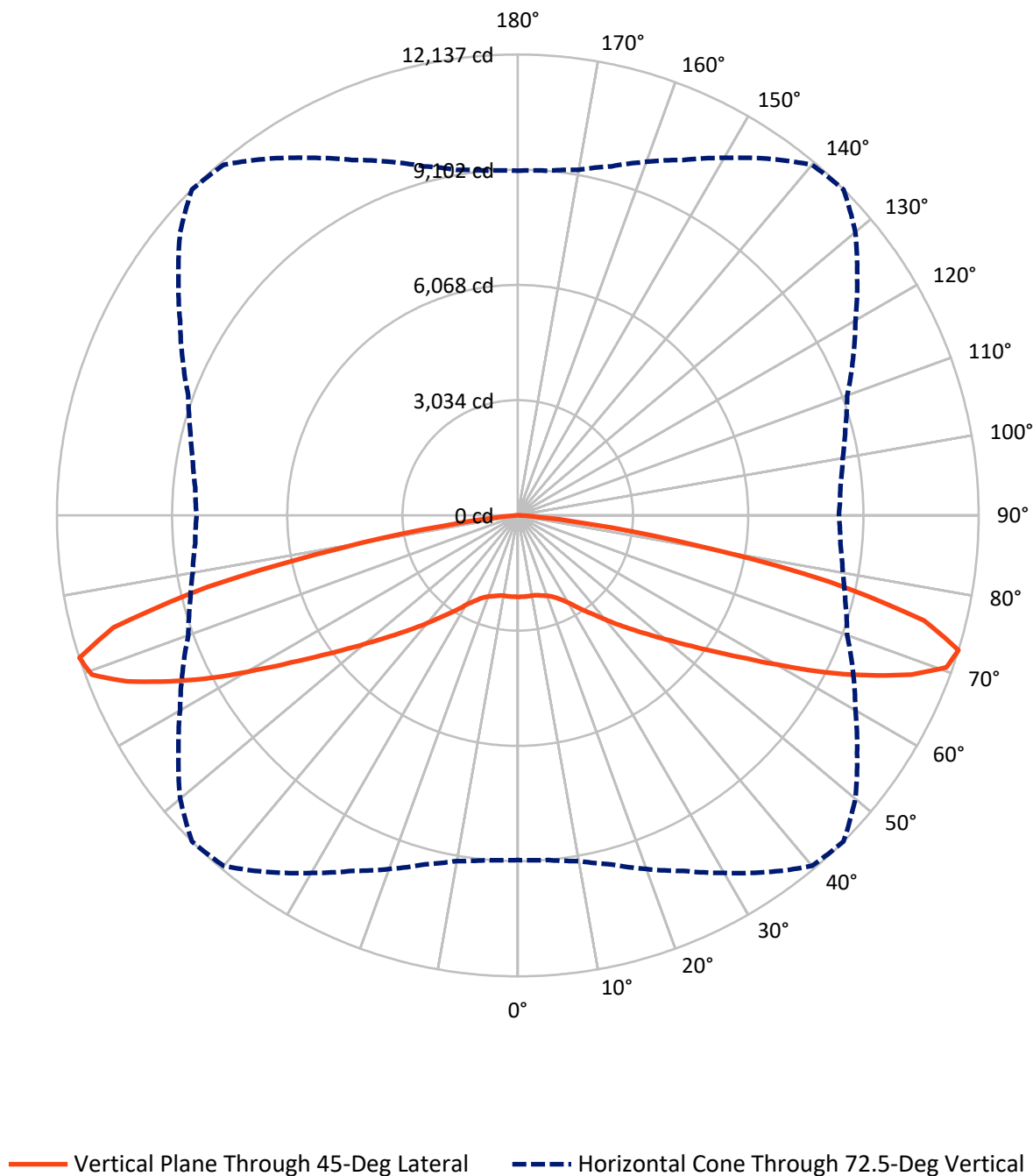


Based on 30 foot mounting height. Maximum calculated value = 2.4 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15153.7	0.0	15153.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	15153.7	0.0	15153.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	30307.4	0.0	30307.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	204.9	0.7
10°-20°	622.4	2.1
20°-30°	1137.4	3.8
30°-40°	1961.1	6.5
40°-50°	3352.5	11.1
50°-60°	5434.0	17.9
60°-70°	9014.8	29.7
70°-80°	7939.9	26.2
80°-90°	640.2	2.1
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°	30307.4	100.0
0°-180°	30307.4	100.0

Coefficient of Utilization



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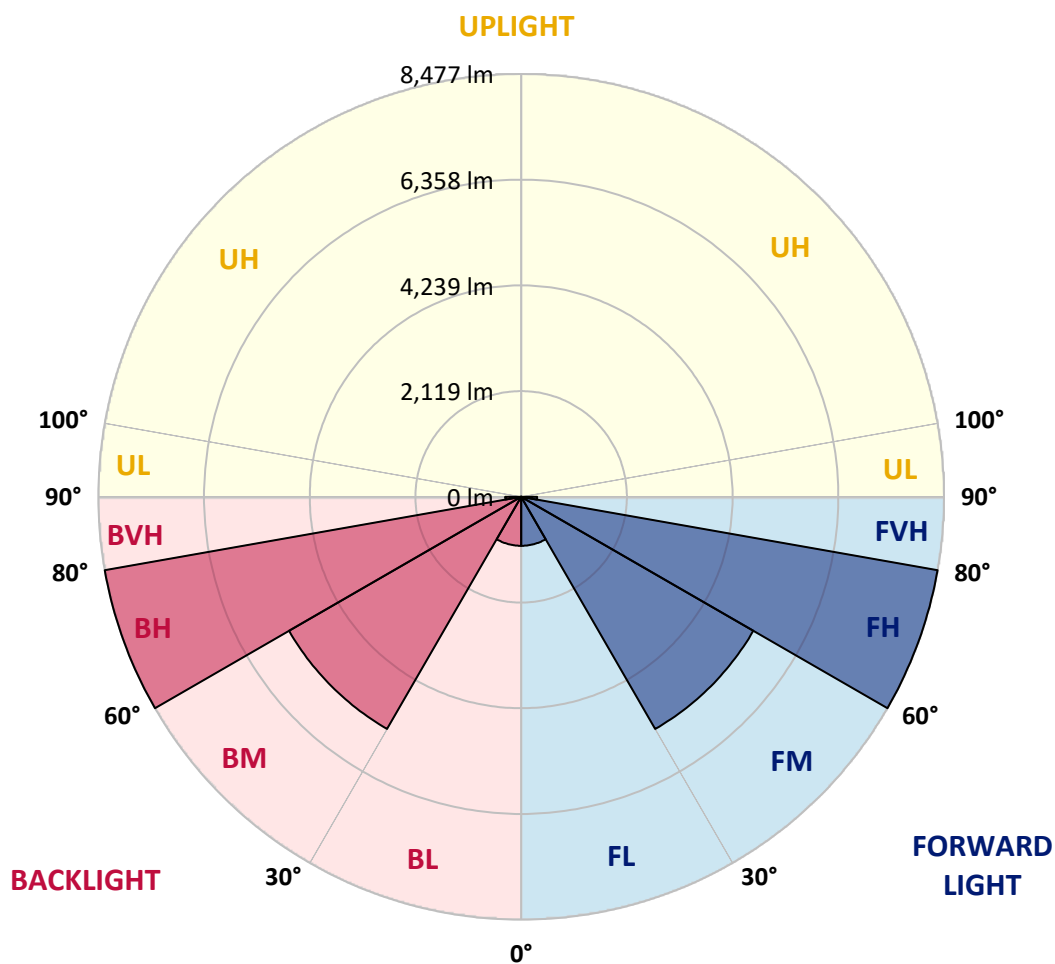
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	982.4	3.2			
FM	(30°-60°)	5373.8	17.7			
FH	(60°-80°)	8477.4	28.0			G4/12000
FVH	(80°-90°)	320.1	1.1			G3/500
BL	(0°-30°)	982.4	3.2	B2/1000		
BM	(30°-60°)	5373.8	17.7	B4/8500		
BH	(60°-80°)	8477.4	28.0	B5		G4/12000
BVH	(80°-90°)	320.1	1.1			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G4

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2146.3	2146.3	2146.3	2146.3	2146.3	2146.3	2146.3	2146.3	2146.3	2146.3	2146.3
2.5°	2146.3	2147.6	2149.0	2147.6	2147.6	2146.3	2144.9	2146.3	2144.9	2142.0	2143.4
5°	2153.2	2156.0	2156.0	2153.2	2154.6	2153.2	2150.4	2151.8	2149.0	2144.9	2144.9
7.5°	2161.4	2162.9	2162.9	2160.2	2161.4	2158.8	2156.0	2154.6	2151.8	2146.3	2142.0
10°	2174.0	2175.5	2174.0	2171.3	2171.3	2167.0	2160.2	2157.4	2151.8	2143.4	2139.3
12.5°	2187.9	2189.3	2187.9	2185.1	2183.8	2176.8	2171.3	2167.0	2162.9	2156.0	2149.0
15°	2207.4	2210.2	2207.4	2201.8	2197.6	2192.1	2189.3	2190.7	2192.1	2186.5	2179.6
17.5°	2243.5	2245.0	2240.8	2228.3	2222.7	2217.1	2217.1	2219.9	2224.1	2221.3	2214.3
20°	2310.3	2306.1	2296.4	2281.2	2274.1	2264.4	2263.0	2264.4	2264.4	2263.0	2257.4
22.5°	2393.7	2390.9	2378.3	2358.9	2349.2	2343.6	2335.3	2328.4	2326.9	2322.8	2317.2
25°	2493.8	2492.3	2477.0	2460.4	2453.4	2446.6	2439.5	2429.8	2421.5	2411.8	2406.2
27.5°	2621.6	2616.1	2593.9	2585.5	2575.8	2571.6	2561.9	2550.7	2543.8	2531.3	2524.3
30°	2762.1	2762.1	2743.9	2741.2	2741.2	2731.5	2720.3	2700.9	2688.4	2675.9	2671.7
32.5°	2902.5	2903.8	2885.7	2891.3	2895.5	2902.5	2905.2	2898.2	2889.9	2888.5	2880.2
35°	3105.3	3099.8	3081.7	3085.9	3084.5	3083.1	3083.1	3098.4	3101.3	3103.9	3087.3
37.5°	3357.0	3357.0	3338.9	3338.9	3330.6	3322.2	3311.1	3320.8	3336.1	3340.3	3329.1
40°	3644.7	3654.4	3632.3	3630.8	3633.6	3607.2	3594.6	3609.9	3619.6	3636.3	3623.9
42.5°	3983.9	3976.9	3954.6	3951.9	3936.6	3928.3	3917.2	3929.6	3945.0	3956.1	3960.2
45°	4309.1	4303.6	4278.6	4278.6	4263.3	4256.3	4261.8	4282.8	4289.7	4305.1	4320.2
47.5°	4630.3	4623.3	4606.6	4613.6	4615.0	4627.4	4645.6	4665.1	4684.5	4705.4	4712.3
50°	4958.3	4959.8	4941.6	4958.3	4979.2	5013.9	5062.5	5094.5	5134.8	5161.3	5169.6
52.5°	5257.1	5262.7	5282.1	5321.2	5362.8	5430.9	5514.4	5592.2	5658.9	5703.4	5700.6
55°	5615.8	5624.1	5671.4	5738.1	5806.2	5909.1	6032.9	6170.4	6281.7	6345.6	6305.3
57.5°	6074.5	6092.7	6145.4	6235.8	6337.2	6470.7	6640.2	6847.4	7019.8	7105.9	7040.5
60°	6704.2	6715.3	6779.3	6879.4	7001.7	7167.1	7393.7	7671.6	7915.0	8028.9	7953.8
62.5°	7534.1	7554.9	7606.3	7707.8	7832.9	8020.6	8297.2	8644.7	8947.8	9106.2	8936.7
65°	8525.2	8591.9	8635.0	8737.9	8854.6	9053.4	9342.5	9715.0	10040.4	10144.6	9948.6
67.5°	9506.5	9564.9	9640.0	9758.2	9876.3	10100.2	10368.3	10729.8	11087.1	11181.6	10877.1
70°	9936.0	9969.5	10086.2	10247.4	10474.0	10738.1	11048.1	11453.9	11896.0	11973.9	11587.5
72.5°	9075.6	9109.0	9239.6	9513.5	9908.2	10328.1	10868.8	11465.1	12049.0	12136.5	11604.1
75°	6864.1	6809.8	7003.1	7365.8	7898.3	8483.4	9239.6	10094.6	10938.3	11048.1	10412.9
77.5°	3547.4	3540.4	3686.4	4136.8	4772.0	5437.9	6270.5	7236.6	8062.2	8395.9	7878.8
80°	999.4	1010.5	1080.0	1303.9	1675.1	2156.0	2806.6	3711.4	4387.0	4731.7	4442.6
82.5°	392.0	422.7	448.9	490.7	539.3	610.2	814.5	1212.1	1626.4	1943.2	1591.6
85°	140.4	150.1	212.7	251.7	255.7	269.7	307.2	358.6	432.3	515.7	423.9
87.5°	52.8	58.4	68.1	112.6	111.2	101.5	123.7	129.3	97.4	88.9	109.8
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):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	2146.3	2146.3	2146.3	2146.3	2146.3	2146.3	2146.3	2146.3
2.5°	2140.7	2142.0	2142.0	2143.4	2144.9	2144.9	2147.6	2147.6
5°	2142.0	2142.0	2139.3	2140.7	2139.3	2139.3	2140.7	2140.7
7.5°	2139.3	2137.8	2135.2	2133.8	2131.0	2131.0	2131.0	2131.0
10°	2135.2	2133.8	2131.0	2129.6	2128.2	2128.2	2128.2	2128.2
12.5°	2146.3	2142.0	2139.3	2137.8	2137.8	2137.8	2137.8	2137.8
15°	2175.5	2165.7	2158.8	2158.8	2160.2	2162.9	2162.9	2165.7
17.5°	2211.5	2200.5	2193.5	2187.9	2190.7	2194.9	2197.6	2200.5
20°	2254.7	2249.1	2239.4	2233.8	2233.8	2239.4	2242.1	2243.5
22.5°	2314.4	2310.3	2306.1	2299.2	2299.2	2301.9	2307.4	2307.4
25°	2403.3	2400.7	2397.8	2392.2	2390.9	2390.9	2393.7	2396.5
27.5°	2514.6	2516.0	2513.2	2511.9	2507.6	2506.3	2510.4	2509.0
30°	2663.3	2670.3	2677.3	2671.7	2664.8	2660.6	2656.4	2650.8
32.5°	2864.9	2856.6	2851.0	2841.3	2828.7	2817.6	2809.3	2799.5
35°	3055.3	3041.4	3035.9	3044.2	3042.9	3035.9	3026.2	3017.8
37.5°	3288.8	3286.1	3288.8	3304.1	3301.4	3308.4	3288.8	3287.5
40°	3583.6	3586.3	3605.8	3623.9	3633.6	3643.4	3632.3	3621.1
42.5°	3925.4	3924.1	3931.0	3956.1	3972.7	3983.9	3960.2	3957.5
45°	4286.9	4277.2	4282.8	4303.6	4320.2	4332.7	4306.4	4306.4
47.5°	4684.5	4667.8	4649.7	4673.3	4683.1	4691.4	4670.7	4663.6
50°	5127.9	5093.1	5054.3	5063.9	5063.9	5061.2	5034.7	5033.3
52.5°	5636.6	5572.7	5501.9	5475.4	5460.1	5443.4	5397.5	5375.3
55°	6221.9	6125.9	6014.7	5946.7	5910.5	5864.6	5788.1	5767.4
57.5°	6905.7	6755.6	6563.9	6480.3	6399.8	6324.7	6239.9	6216.3
60°	7716.2	7495.1	7240.7	7086.4	6998.9	6926.6	6839.1	6834.8
62.5°	8619.7	8270.8	7983.0	7844.0	7780.2	7716.2	7632.8	7643.9
65°	9538.6	9174.3	8904.6	8792.1	8732.3	8679.4	8596.1	8608.5
67.5°	10444.8	10109.9	9813.7	9698.4	9631.6	9564.9	9489.8	9502.4
70°	11095.4	10679.8	10346.1	10090.4	9930.5	9749.9	9633.1	9603.9
72.5°	10909.1	10268.3	9738.8	9231.4	8933.8	8692.0	8527.9	8457.1
75°	9441.2	8565.5	7884.3	7261.6	6911.3	6626.3	6419.2	6289.9
77.5°	7011.3	6027.3	5222.4	4505.2	3938.0	3557.2	3288.8	3115.1
80°	3838.0	2919.1	2133.8	1499.9	1102.3	916.0	808.9	757.6
82.5°	1195.4	771.5	568.4	490.7	455.9	436.5	404.5	353.1
85°	380.9	333.6	310.0	296.1	282.2	246.1	169.6	154.3
87.5°	147.4	151.6	150.1	141.8	144.5	104.3	83.4	73.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)