

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: P193425

Luminaire Tested: **GAN-AF-07-LED-U-5WQ-8030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193425
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-07-LED-U-5WQ-8030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29237 lumens
Efficiency: N/A
Efficacy: 99.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B5 - U0 - G4

Input Watts (W): 295
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

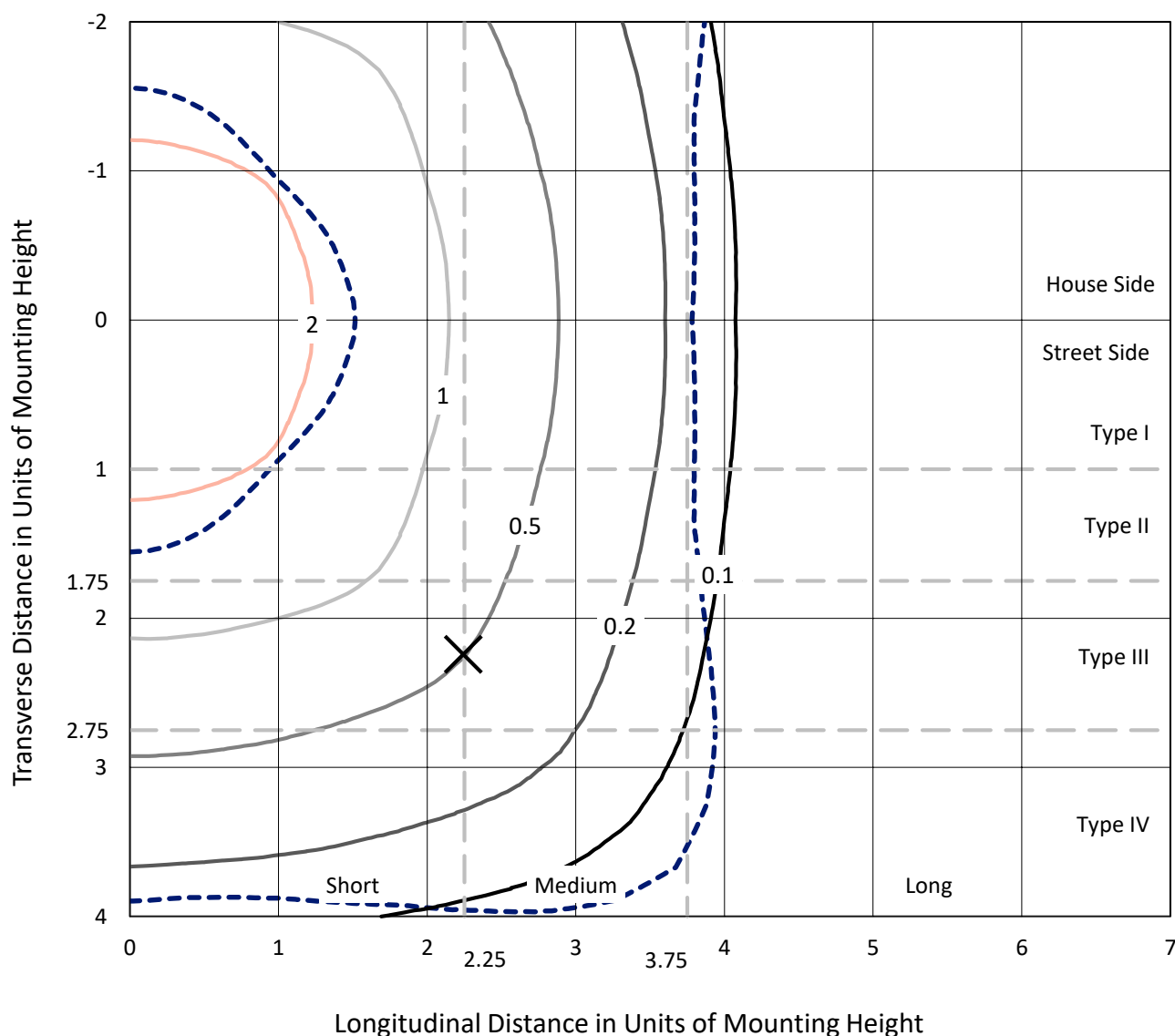


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

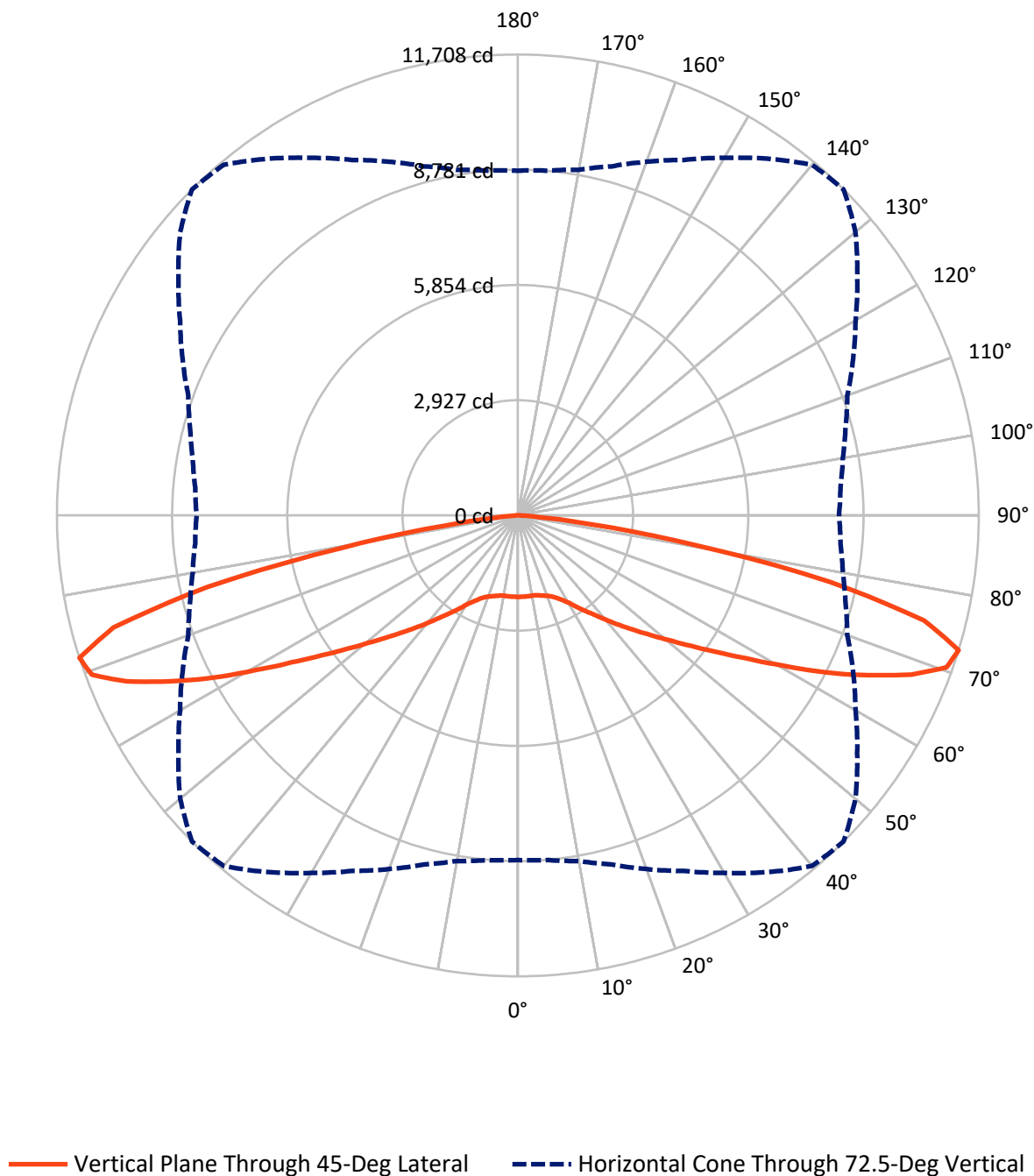


Based on 25 foot mounting height. Maximum calculated value = 3.3 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14618.5	0.0	14618.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14618.5	0.0	14618.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	29237.0	0.0	29237.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	197.7	0.7
10°-20°	600.4	2.1
20°-30°	1097.3	3.8
30°-40°	1891.9	6.5
40°-50°	3234.1	11.1
50°-60°	5242.1	17.9
60°-70°	8696.4	29.7
70°-80°	7659.5	26.2
80°-90°	617.6	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°	29237.0	100.0
0°-180°	29237.0	100.0

Coefficient of Utilization



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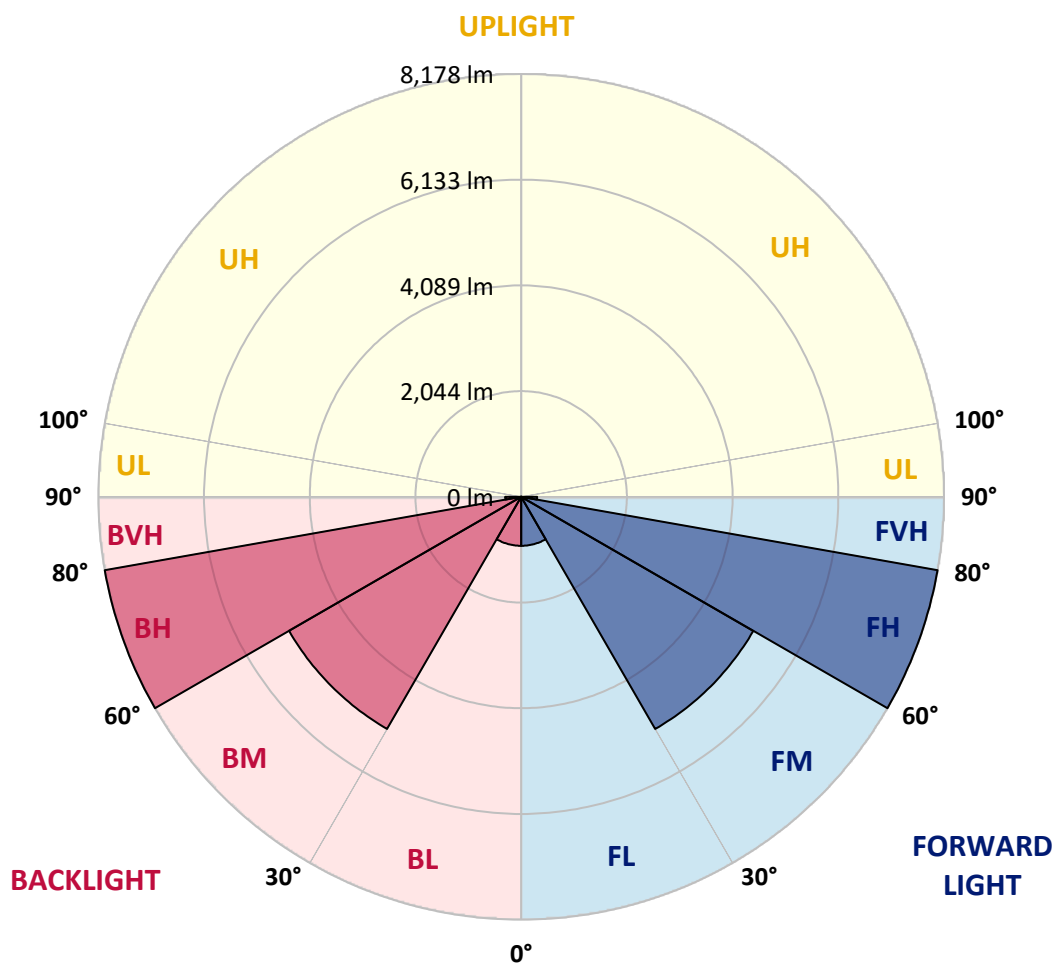
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	947.7	3.2			
FM	(30°-60°)	5184.0	17.7			
FH	(60°-80°)	8178.0	28.0			G4/12000
FVH	(80°-90°)	308.8	1.1			G3/500
BL	(0°-30°)	947.7	3.2	B2/1000		
BM	(30°-60°)	5184.0	17.7	B4/8500		
BH	(60°-80°)	8178.0	28.0	B5		G4/12000
BVH	(80°-90°)	308.8	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°	2070.4	2070.4	2070.4	2070.4	2070.4	2070.4	2070.4	2070.4	2070.4	2070.4	2070.4
2.5°	2070.4	2071.8	2073.1	2071.8	2071.8	2070.4	2069.1	2070.4	2069.1	2066.4	2067.8
5°	2077.1	2079.8	2079.8	2077.1	2078.5	2077.1	2074.5	2075.8	2073.1	2069.1	2069.1
7.5°	2085.2	2086.5	2086.5	2083.8	2085.2	2082.5	2079.8	2078.5	2075.8	2070.4	2066.4
10°	2097.3	2098.6	2097.3	2094.6	2094.6	2090.5	2083.8	2081.2	2075.8	2067.8	2063.7
12.5°	2110.7	2112.0	2110.7	2108.0	2106.6	2099.9	2094.6	2090.5	2086.5	2079.8	2073.1
15°	2129.4	2132.1	2129.4	2124.1	2120.0	2114.7	2112.0	2113.3	2114.7	2109.3	2102.6
17.5°	2164.3	2165.6	2161.6	2149.6	2144.2	2138.8	2138.8	2141.5	2145.5	2142.8	2136.1
20°	2228.7	2224.6	2215.3	2200.5	2193.8	2184.4	2183.1	2184.4	2184.4	2183.1	2177.7
22.5°	2309.1	2306.4	2294.4	2275.6	2266.2	2260.8	2252.8	2246.1	2244.8	2240.7	2235.4
25°	2405.7	2404.3	2389.6	2373.5	2366.8	2360.1	2353.4	2344.0	2335.9	2326.6	2321.2
27.5°	2529.0	2523.7	2502.2	2494.2	2484.8	2480.8	2471.4	2460.7	2453.9	2441.9	2435.2
30°	2664.5	2664.5	2647.0	2644.4	2644.4	2635.0	2624.2	2605.5	2593.4	2581.3	2577.3
32.5°	2799.9	2801.3	2783.8	2789.2	2793.2	2799.9	2802.6	2795.9	2787.8	2786.5	2778.5
35°	2995.7	2990.3	2972.9	2976.9	2975.6	2974.2	2974.2	2989.0	2991.7	2994.4	2978.3
37.5°	3238.4	3238.4	3221.0	3221.0	3212.9	3204.9	3194.2	3203.5	3218.3	3222.3	3211.6
40°	3516.0	3525.4	3503.9	3502.6	3505.3	3479.8	3467.7	3482.5	3491.8	3507.9	3495.9
42.5°	3843.2	3836.5	3815.0	3812.3	3797.6	3789.5	3778.8	3790.9	3805.6	3816.4	3820.4
45°	4157.0	4151.6	4127.5	4127.5	4112.7	4106.0	4111.4	4131.5	4138.2	4152.9	4167.7
47.5°	4466.7	4460.0	4443.9	4450.6	4452.0	4464.0	4481.5	4500.2	4519.0	4539.1	4545.8
50°	4783.2	4784.5	4767.1	4783.2	4803.3	4836.8	4883.8	4914.6	4953.5	4979.0	4987.0
52.5°	5071.5	5076.9	5095.6	5133.2	5173.4	5239.1	5319.6	5394.7	5459.0	5501.9	5499.3
55°	5417.5	5425.5	5471.1	5535.5	5601.2	5700.4	5819.7	5952.5	6059.8	6121.5	6082.6
57.5°	5860.0	5877.4	5928.4	6015.5	6113.4	6242.1	6405.7	6605.5	6771.8	6855.0	6791.9
60°	6467.4	6478.2	6539.8	6636.4	6754.4	6914.0	7132.5	7400.7	7635.4	7745.4	7672.9
62.5°	7268.0	7288.1	7337.7	7435.6	7556.3	7737.3	8004.2	8339.4	8631.7	8784.6	8621.0
65°	8224.1	8288.4	8330.0	8429.2	8541.9	8733.6	9012.6	9371.9	9685.7	9786.3	9597.2
67.5°	9170.8	9227.1	9299.5	9413.5	9527.5	9743.4	10002.2	10350.8	10695.5	10786.6	10493.0
70°	9585.1	9617.3	9730.0	9885.5	10104.1	10358.9	10657.9	11049.5	11475.9	11551.0	11178.2
72.5°	8755.1	8787.3	8913.3	9177.5	9558.3	9963.3	10484.9	11060.2	11623.4	11707.9	11194.3
75°	6621.6	6569.3	6755.7	7105.7	7619.3	8183.8	8913.3	9738.0	10552.0	10657.9	10045.1
77.5°	3422.1	3415.4	3556.2	3990.7	4603.5	5245.8	6049.0	6981.0	7777.5	8099.4	7600.5
80°	964.1	974.9	1041.9	1257.8	1615.9	2079.8	2707.4	3580.3	4232.1	4564.6	4285.7
82.5°	378.1	407.7	433.1	473.4	520.3	588.7	785.8	1169.3	1568.9	1874.7	1535.4
85°	135.4	144.8	205.2	242.7	246.7	260.1	296.4	346.0	417.0	497.5	409.0
87.5°	51.0	56.3	65.7	108.6	107.3	97.9	119.3	124.7	93.9	85.8	105.9
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°	2070.4	2070.4	2070.4	2070.4	2070.4	2070.4	2070.4	2070.4
2.5°	2065.1	2066.4	2066.4	2067.8	2069.1	2069.1	2071.8	2071.8
5°	2066.4	2066.4	2063.7	2065.1	2063.7	2063.7	2065.1	2065.1
7.5°	2063.7	2062.4	2059.7	2058.4	2055.7	2055.7	2055.7	2055.7
10°	2059.7	2058.4	2055.7	2054.3	2053.0	2053.0	2053.0	2053.0
12.5°	2070.4	2066.4	2063.7	2062.4	2062.4	2062.4	2062.4	2062.4
15°	2098.6	2089.2	2082.5	2082.5	2083.8	2086.5	2086.5	2089.2
17.5°	2133.5	2122.7	2116.0	2110.7	2113.3	2117.4	2120.0	2122.7
20°	2175.0	2169.7	2160.3	2154.9	2154.9	2160.3	2163.0	2164.3
22.5°	2232.7	2228.7	2224.6	2217.9	2217.9	2220.6	2226.0	2226.0
25°	2318.5	2315.8	2313.1	2307.8	2306.4	2306.4	2309.1	2311.8
27.5°	2425.8	2427.1	2424.4	2423.1	2419.1	2417.7	2421.8	2420.4
30°	2569.3	2576.0	2582.7	2577.3	2570.6	2566.6	2562.6	2557.2
32.5°	2763.7	2755.7	2750.3	2740.9	2728.8	2718.1	2710.1	2700.7
35°	2947.4	2934.0	2928.6	2936.7	2935.3	2928.6	2919.3	2911.2
37.5°	3172.7	3170.0	3172.7	3187.4	3184.8	3191.5	3172.7	3171.4
40°	3457.0	3459.7	3478.4	3495.9	3505.3	3514.6	3503.9	3493.2
42.5°	3786.9	3785.5	3792.2	3816.4	3832.4	3843.2	3820.4	3817.7
45°	4135.5	4126.1	4131.5	4151.6	4167.7	4179.8	4154.3	4154.3
47.5°	4519.0	4502.9	4485.5	4508.3	4517.7	4525.7	4505.6	4498.9
50°	4946.8	4913.3	4875.7	4885.1	4885.1	4882.4	4856.9	4855.6
52.5°	5437.6	5375.9	5307.5	5282.0	5267.3	5251.2	5206.9	5185.5
55°	6002.1	5909.6	5802.3	5736.6	5701.7	5657.5	5583.7	5563.6
57.5°	6661.9	6517.0	6332.0	6251.5	6173.8	6101.3	6019.5	5996.7
60°	7443.6	7230.4	6985.0	6836.2	6751.7	6682.0	6597.5	6593.5
62.5°	8315.3	7978.7	7701.1	7567.0	7505.3	7443.6	7363.2	7373.9
65°	9201.6	8850.3	8590.2	8481.5	8423.9	8372.9	8292.5	8304.5
67.5°	10075.9	9752.8	9467.1	9355.8	9291.5	9227.1	9154.7	9166.8
70°	10703.5	10302.6	9980.7	9734.0	9579.8	9405.5	9292.8	9264.7
72.5°	10523.8	9905.6	9394.7	8905.3	8618.3	8385.0	8226.8	8158.4
75°	9107.8	8263.0	7605.9	7005.1	6667.2	6392.3	6192.5	6067.8
77.5°	6763.8	5814.4	5038.0	4346.0	3798.9	3431.5	3172.7	3005.1
80°	3702.4	2816.0	2058.4	1446.9	1063.4	883.7	780.4	730.8
82.5°	1153.2	744.2	548.5	473.4	439.8	421.1	390.2	340.6
85°	367.4	321.8	299.0	285.6	272.2	237.3	163.6	148.8
87.5°	142.1	146.2	144.8	136.8	139.5	100.6	80.5	71.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)