

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: P157423

Luminaire Tested: **VST-F12-LED-E-U-5MQ-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P157423
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33708)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VST-F12-LED-E-U-5MQ-8030
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(12) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE MEDIUM
Light Source: (84) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26745.1 lumens
Efficiency: N/A
Efficacy: 87.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B5 - U0 - G3

Input Watts (W): 306.6
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



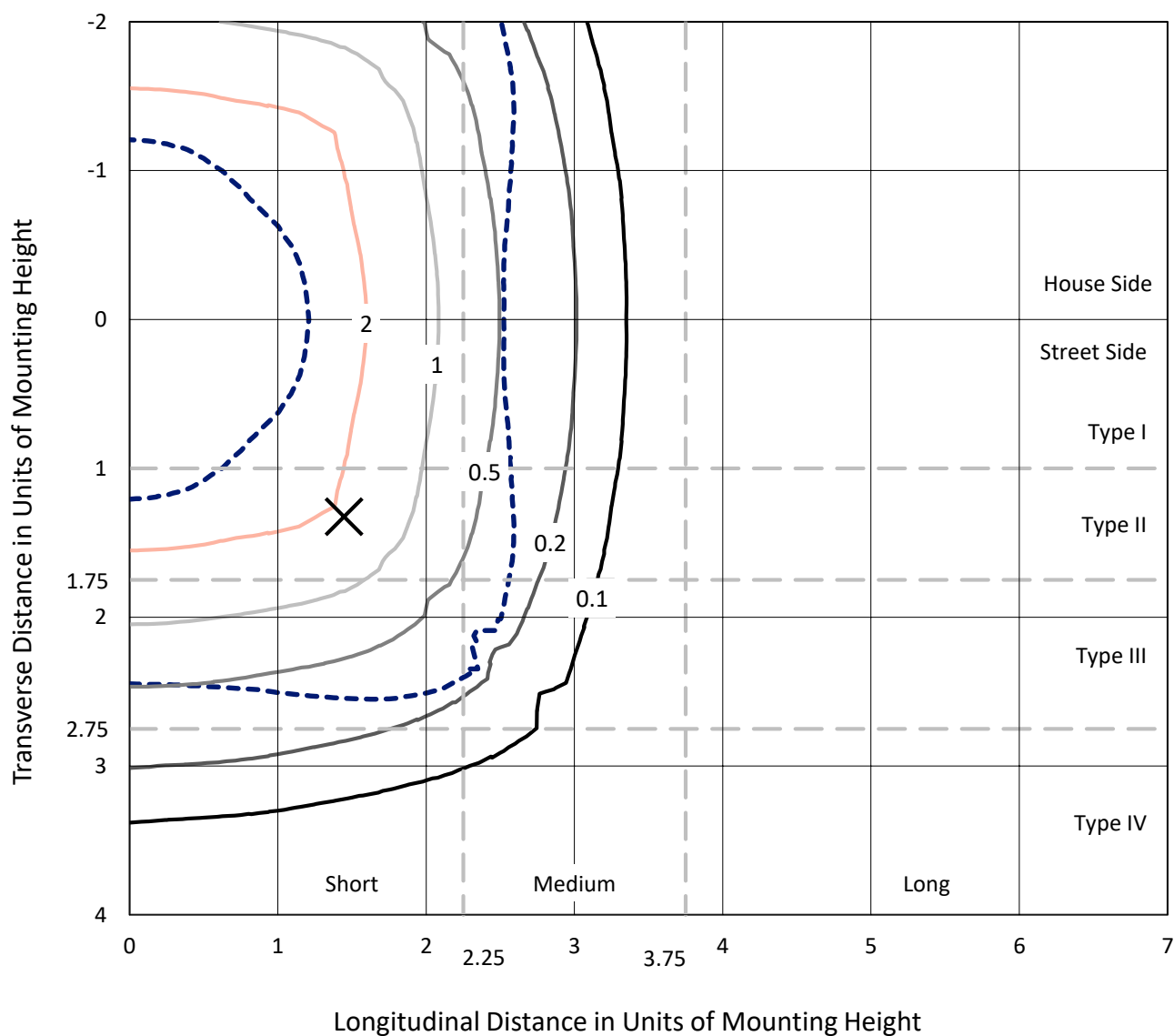
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

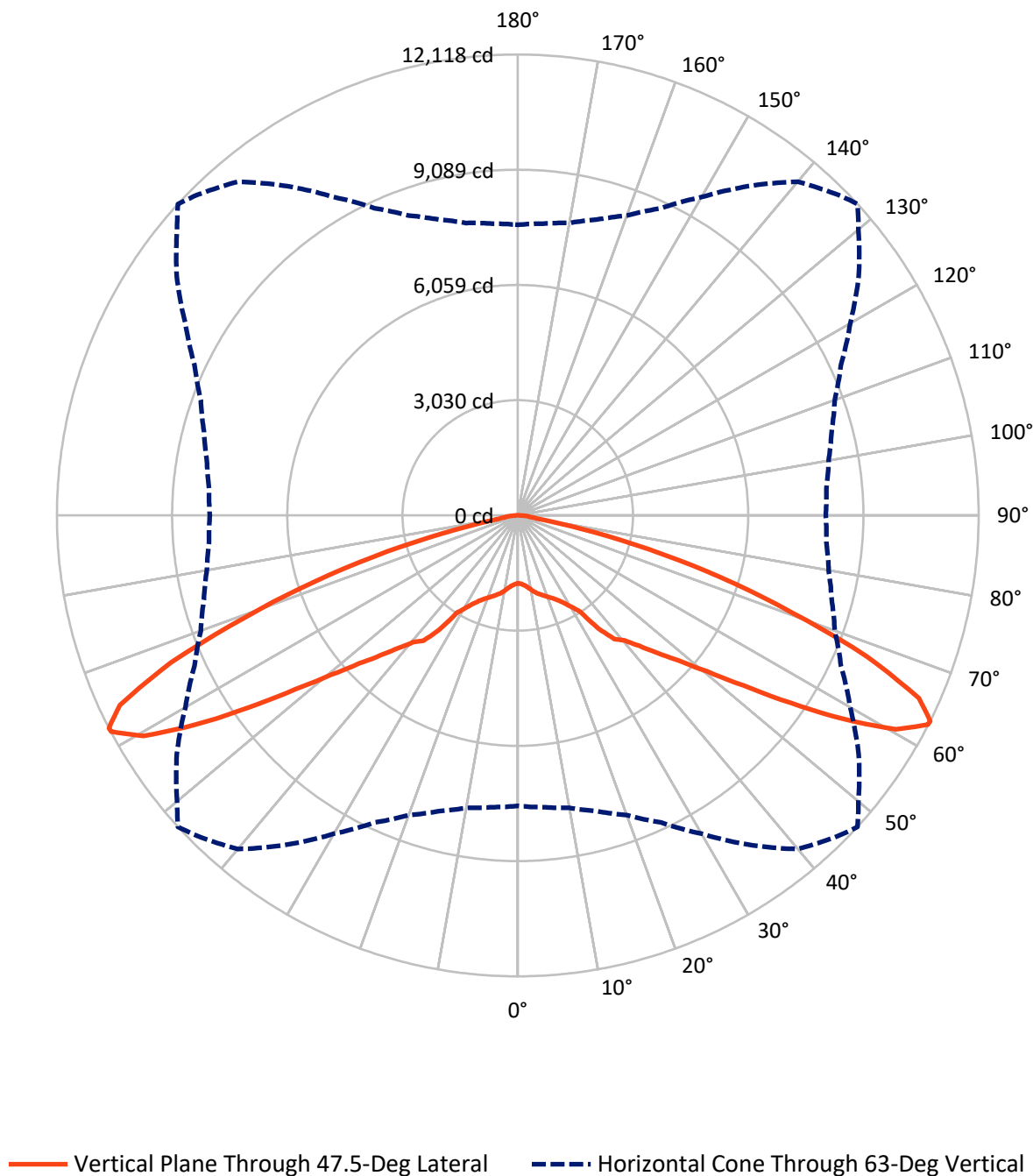


Based on 25 foot mounting height. Maximum calculated value = 3.1 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13372.6	0.0	13372.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	13372.6	0.0	13372.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	26745.1	0.0	26745.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	179.3	0.7
10°-20°	609.5	2.3
20°-30°	1165.8	4.4
30°-40°	2230.0	8.3
40°-50°	3858.7	14.4
50°-60°	6930.0	25.9
60°-70°	8427.0	31.5
70°-80°	3043.4	11.4
80°-90°	301.4	1.1
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°	26745.1	100.0
0°-180°	26745.1	100.0

Coefficient of Utilization



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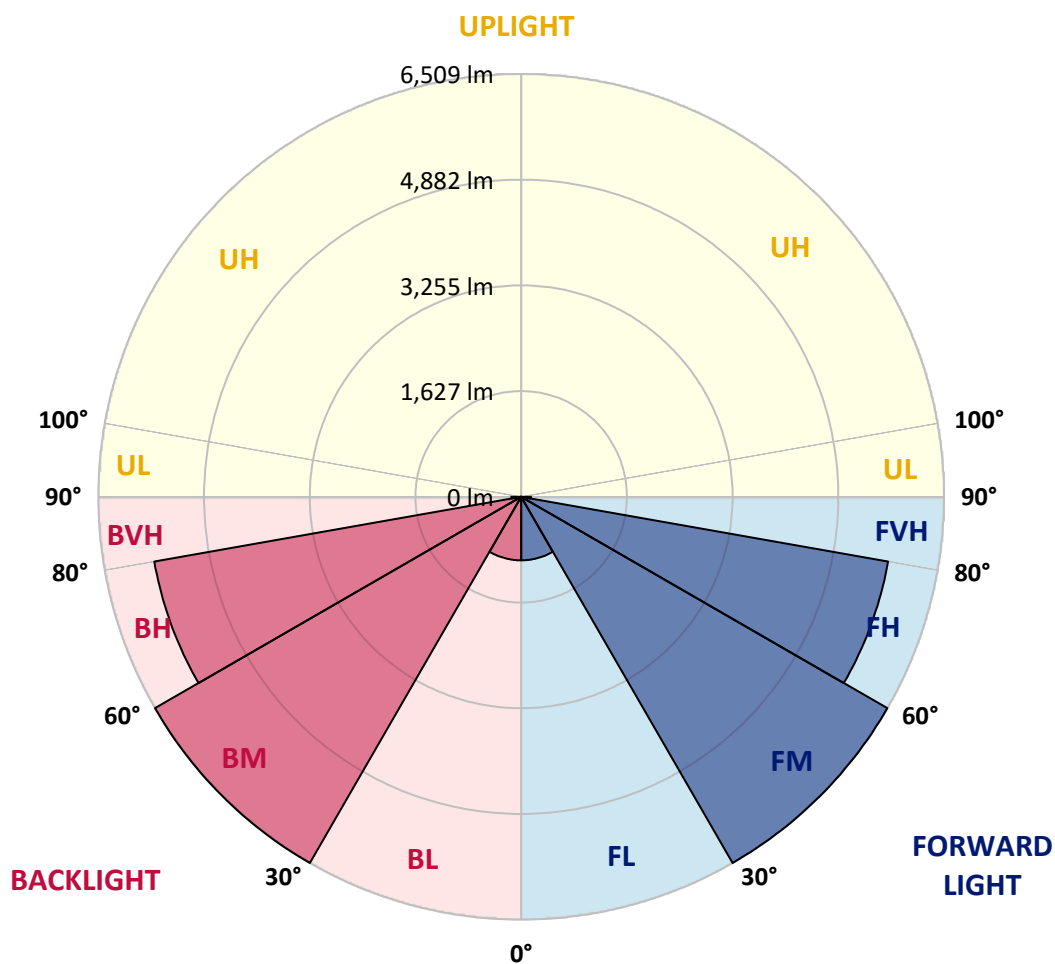
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	977.3	3.7			
FM	(30°-60°)	6509.4	24.3			
FH	(60°-80°)	5735.2	21.4			G3/7500
FVH	(80°-90°)	150.7	0.6			G2/225
BL	(0°-30°)	977.3	3.7	B2/1000		
BM	(30°-60°)	6509.4	24.3	B4/8500		
BH	(60°-80°)	5735.2	21.4	B5		G3/7500
BVH	(80°-90°)	150.7	0.6			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	47.5°
0°	1785.9	1785.9	1785.9	1785.9	1785.9	1785.9	1785.9	1785.9	1785.9	1785.9	1785.9
2.5°	1797.6	1794.2	1795.9	1797.6	1795.9	1794.2	1794.2	1794.2	1797.6	1794.2	1802.6
5°	1832.7	1829.3	1831.0	1831.0	1831.0	1827.7	1827.7	1827.7	1826.0	1827.7	1846.1
7.5°	1899.6	1894.6	1892.9	1896.2	1892.9	1891.2	1889.5	1889.5	1886.2	1886.2	1909.6
10°	1979.8	1973.2	1976.5	1978.2	1973.2	1969.8	1969.8	1969.8	1964.8	1963.1	1993.2
12.5°	2068.5	2065.1	2065.1	2061.8	2060.1	2056.8	2055.1	2056.8	2050.1	2050.1	2080.2
15°	2153.7	2147.1	2148.7	2143.7	2140.4	2137.0	2135.4	2133.7	2130.3	2130.3	2148.7
17.5°	2232.3	2227.3	2225.7	2220.6	2215.6	2210.6	2207.3	2205.6	2200.6	2200.6	2217.3
20°	2314.3	2309.3	2305.9	2297.6	2289.2	2284.2	2277.5	2274.1	2267.5	2269.1	2287.5
22.5°	2407.9	2399.6	2392.9	2386.2	2371.1	2361.1	2352.7	2346.0	2342.7	2342.7	2367.8
25°	2533.3	2528.3	2518.3	2496.5	2478.1	2463.1	2449.7	2443.0	2436.3	2433.0	2471.5
27.5°	2687.2	2682.2	2668.8	2647.0	2622.0	2596.9	2581.8	2570.1	2561.8	2556.7	2611.9
30°	2891.2	2882.8	2871.1	2836.0	2814.3	2775.8	2759.1	2742.4	2724.0	2729.0	2794.2
32.5°	3290.8	3279.1	3242.3	3203.9	3137.0	3085.1	3031.6	2991.5	2953.0	2948.0	3018.3
35°	3653.7	3648.7	3642.0	3615.2	3590.1	3558.4	3533.3	3491.5	3456.4	3448.0	3645.3
37.5°	3849.3	3861.0	3851.0	3847.7	3847.7	3862.7	3909.5	3956.3	3989.8	4009.9	4120.2
40°	4148.6	4148.6	4136.9	4130.2	4116.9	4136.9	4157.0	4192.1	4207.2	4208.8	4320.9
42.5°	4488.1	4489.8	4478.1	4458.0	4451.3	4469.7	4496.5	4529.9	4550.0	4555.0	4685.4
45°	4866.0	4861.0	4851.0	4844.3	4849.3	4866.0	4897.8	4963.0	4993.1	5016.5	5158.6
47.5°	5275.7	5309.1	5280.7	5285.7	5285.7	5337.6	5409.5	5463.0	5511.5	5556.6	5707.1
50°	5812.4	5817.5	5822.5	5837.5	5847.6	5916.1	6006.4	6070.0	6140.2	6198.7	6444.5
52.5°	6529.8	6519.8	6544.9	6561.6	6618.4	6655.2	6805.7	6886.0	6983.0	7058.2	7417.7
55°	7387.6	7382.6	7419.4	7432.8	7508.0	7598.3	7765.5	7941.1	8106.7	8198.6	8690.2
57.5°	8003.0	8016.4	8079.9	8168.5	8315.7	8508.0	8757.1	9145.1	9459.4	9559.8	10101.6
60°	8138.4	8181.9	8277.2	8454.5	8707.0	9064.8	9554.8	10148.4	10723.6	10915.9	11424.2
62.5°	7758.8	7809.0	7949.5	8161.8	8491.3	9021.3	9728.7	10566.4	11420.9	11849.0	12104.8
63°	7638.5	7700.3	7805.7	8051.5	8385.9	8909.3	9661.8	10564.7	11451.0	11917.5	12118.2
65°	7073.3	7085.0	7242.1	7488.0	7864.2	8407.6	9166.8	10210.2	11193.5	11731.9	11593.1
67.5°	6086.7	6135.2	6267.3	6514.8	6881.0	7446.2	8270.5	9235.4	10099.9	10529.6	9909.3
70°	4917.8	4914.5	5078.4	5277.4	5600.1	6096.7	6819.1	7690.3	8375.9	8688.6	7650.2
72.5°	3513.2	3426.3	3546.7	3767.4	4031.6	4427.9	4999.8	5677.0	6290.7	6561.6	5593.4
75°	1600.3	1576.9	1683.9	1902.9	2170.5	2523.3	2993.2	3578.4	4167.0	4484.7	3563.4
77.5°	538.4	545.1	586.9	665.5	809.3	986.6	1279.2	1653.8	2130.3	2444.7	1672.2
80°	361.2	371.2	384.6	396.3	413.0	439.8	503.3	600.3	747.5	904.6	528.4
82.5°	296.0	307.7	337.8	351.2	361.2	369.5	374.6	381.3	381.3	384.6	334.4
85°	212.4	232.4	272.6	297.6	307.7	314.4	322.7	332.8	317.7	304.3	259.2
87.5°	73.6	100.3	147.2	162.2	173.9	175.6	187.3	207.3	197.3	160.5	78.6
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):

	50°	55°	60°	65°	70°	75°	80°	85°	90°
0°	1785.9	1785.9	1785.9	1785.9	1785.9	1785.9	1785.9	1785.9	1785.9
2.5°	1794.2	1792.6	1794.2	1795.9	1795.9	1795.9	1797.6	1799.2	1799.2
5°	1827.7	1829.3	1827.7	1829.3	1829.3	1831.0	1831.0	1834.4	1834.4
7.5°	1884.5	1887.9	1886.2	1889.5	1889.5	1892.9	1891.2	1896.2	1896.2
10°	1961.4	1964.8	1968.1	1969.8	1968.1	1971.5	1974.8	1976.5	1974.8
12.5°	2048.4	2050.1	2048.4	2051.7	2051.7	2055.1	2055.1	2060.1	2060.1
15°	2128.7	2127.0	2125.3	2130.3	2133.7	2135.4	2138.7	2143.7	2138.7
17.5°	2200.6	2202.2	2198.9	2203.9	2210.6	2215.6	2219.0	2225.7	2224.0
20°	2272.5	2269.1	2272.5	2280.8	2287.5	2294.2	2300.9	2310.9	2309.3
22.5°	2342.7	2346.0	2354.4	2361.1	2372.8	2382.8	2391.2	2404.6	2409.6
25°	2441.4	2441.4	2454.7	2463.1	2479.8	2493.2	2511.6	2526.6	2535.0
27.5°	2566.8	2566.8	2581.8	2600.2	2625.3	2648.7	2668.8	2688.8	2685.5
30°	2737.3	2745.7	2759.1	2782.5	2815.9	2844.4	2871.1	2891.2	2892.8
32.5°	2961.4	2971.4	3011.6	3071.8	3142.0	3195.5	3235.6	3284.1	3290.8
35°	3469.7	3494.8	3546.7	3595.2	3623.6	3655.4	3675.4	3677.1	3680.4
37.5°	4004.8	3961.4	3921.2	3884.4	3867.7	3864.4	3864.4	3871.1	3874.4
40°	4200.5	4178.7	4160.3	4136.9	4143.6	4142.0	4153.7	4163.7	4170.4
42.5°	4534.9	4518.2	4501.5	4471.4	4488.1	4483.1	4499.8	4514.8	4523.2
45°	5001.4	4949.6	4912.8	4864.3	4881.1	4871.0	4871.0	4889.4	4892.8
47.5°	5516.5	5456.3	5381.0	5320.8	5300.8	5282.4	5299.1	5299.1	5280.7
50°	6133.5	6061.6	5973.0	5876.0	5842.5	5824.2	5830.8	5839.2	5787.4
52.5°	6971.3	6891.0	6765.6	6618.4	6586.7	6571.6	6568.3	6556.6	6543.2
55°	8106.7	7956.2	7802.3	7608.4	7549.8	7533.1	7534.8	7521.4	7553.2
57.5°	9446.1	9225.3	8870.8	8635.1	8494.6	8441.1	8392.6	8372.5	8374.2
60°	10772.1	10322.3	9792.2	9380.8	9086.5	8899.3	8752.1	8670.2	8646.8
62.5°	11626.6	10919.2	10123.3	9456.1	8972.8	8663.5	8431.1	8283.9	8237.1
63°	11693.5	10944.3	10093.2	9377.5	8869.2	8544.8	8300.6	8148.5	8098.3
65°	11548.0	10691.8	9700.2	8847.4	8290.6	7931.1	7666.9	7523.1	7484.6
67.5°	10417.6	9705.2	8695.3	7814.0	7252.2	6887.6	6585.0	6447.9	6404.4
70°	8474.5	7986.3	7158.5	6406.1	5882.7	5531.5	5225.5	5111.8	5110.1
72.5°	6282.3	5648.6	5155.3	4603.5	4147.0	3867.7	3601.8	3474.8	3411.2
75°	4155.3	3476.4	2924.6	2459.8	2004.9	1754.1	1454.8	1326.0	1250.8
77.5°	2093.6	1551.8	1112.0	770.9	598.6	491.6	449.8	428.1	426.4
80°	697.3	523.4	449.8	421.4	413.0	414.7	409.7	401.3	391.3
82.5°	386.3	406.3	409.7	398.0	398.0	391.3	384.6	352.8	336.1
85°	331.1	364.5	367.9	361.2	359.5	349.5	337.8	294.3	269.2
87.5°	207.3	239.1	234.1	209.0	230.8	215.7	204.0	132.1	97.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)