

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: P157385

Luminaire Tested: **VST-F08-LED-E-U-5MQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P157385
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-F08-LED-E-U-5MQ
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(8) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE MEDIUM
Light Source: (56) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21125.9 lumens
Efficiency: N/A
Efficacy: 103.4 lumens/watt
Luminous Opening: Rectangular (W 1.33' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B4 - U0 - G2

Input Watts (W): 204.4
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

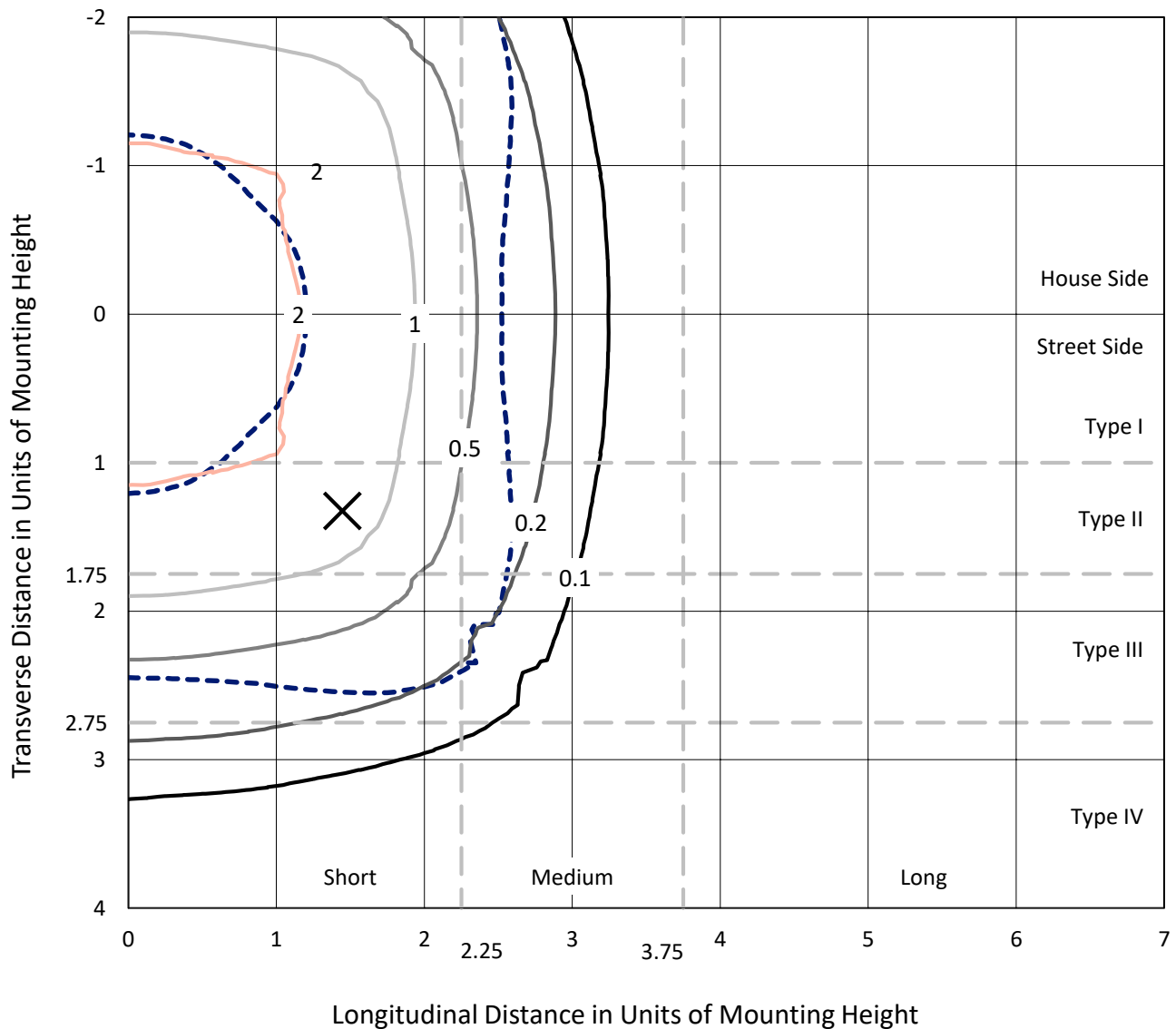


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

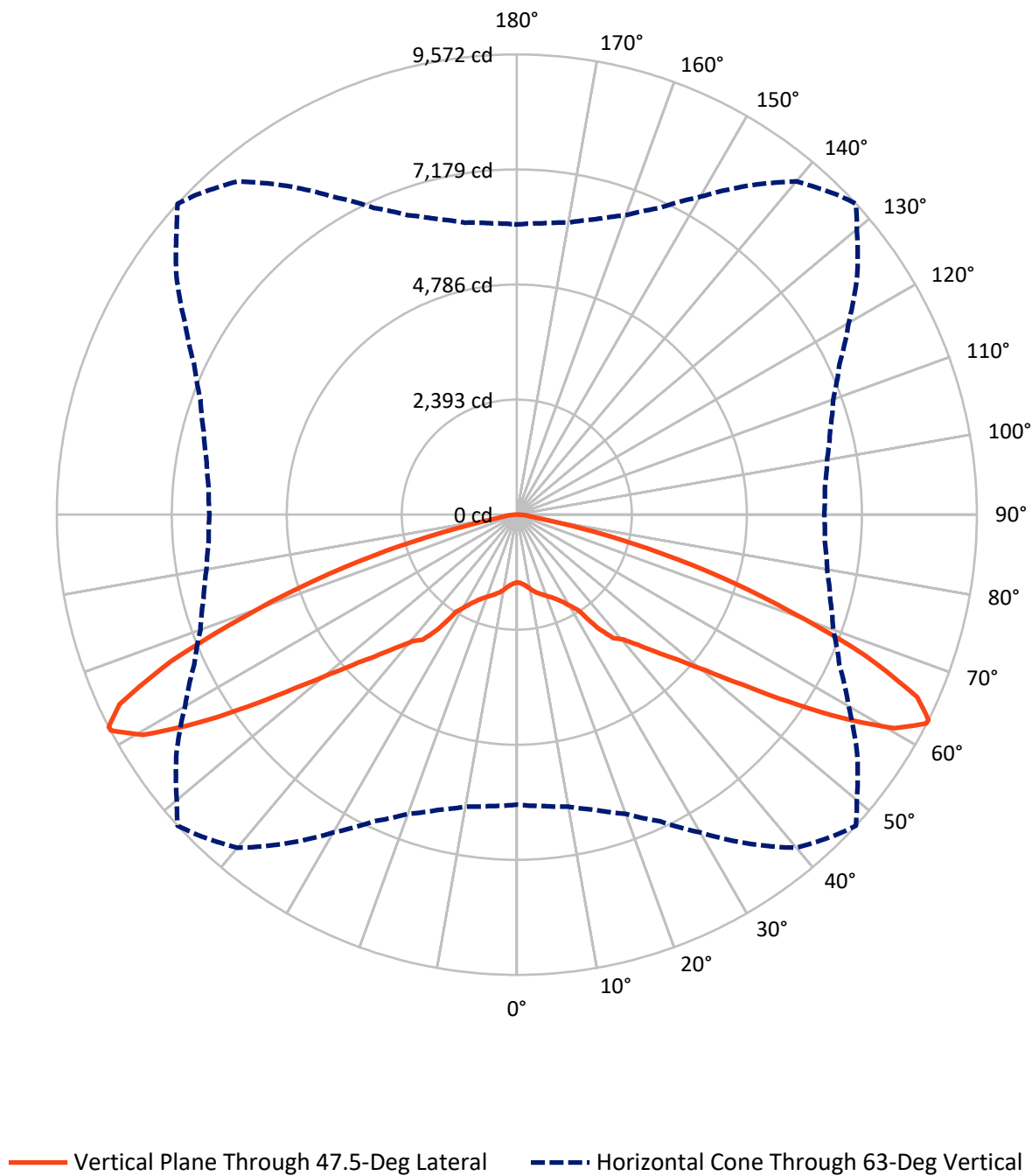


Based on 25 foot mounting height. Maximum calculated value = 2.5 fc
Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10563.0	0.0	10563.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10563.0	0.0	10563.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	21125.9	0.0	21125.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.6	0.7
10°-20°	481.4	2.3
20°-30°	920.9	4.4
30°-40°	1761.5	8.3
40°-50°	3048.0	14.4
50°-60°	5474.0	25.9
60°-70°	6656.5	31.5
70°-80°	2404.0	11.4
80°-90°	238.1	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°	21125.9	100.0
0°-180°	21125.9	100.0

Coefficient of Utilization



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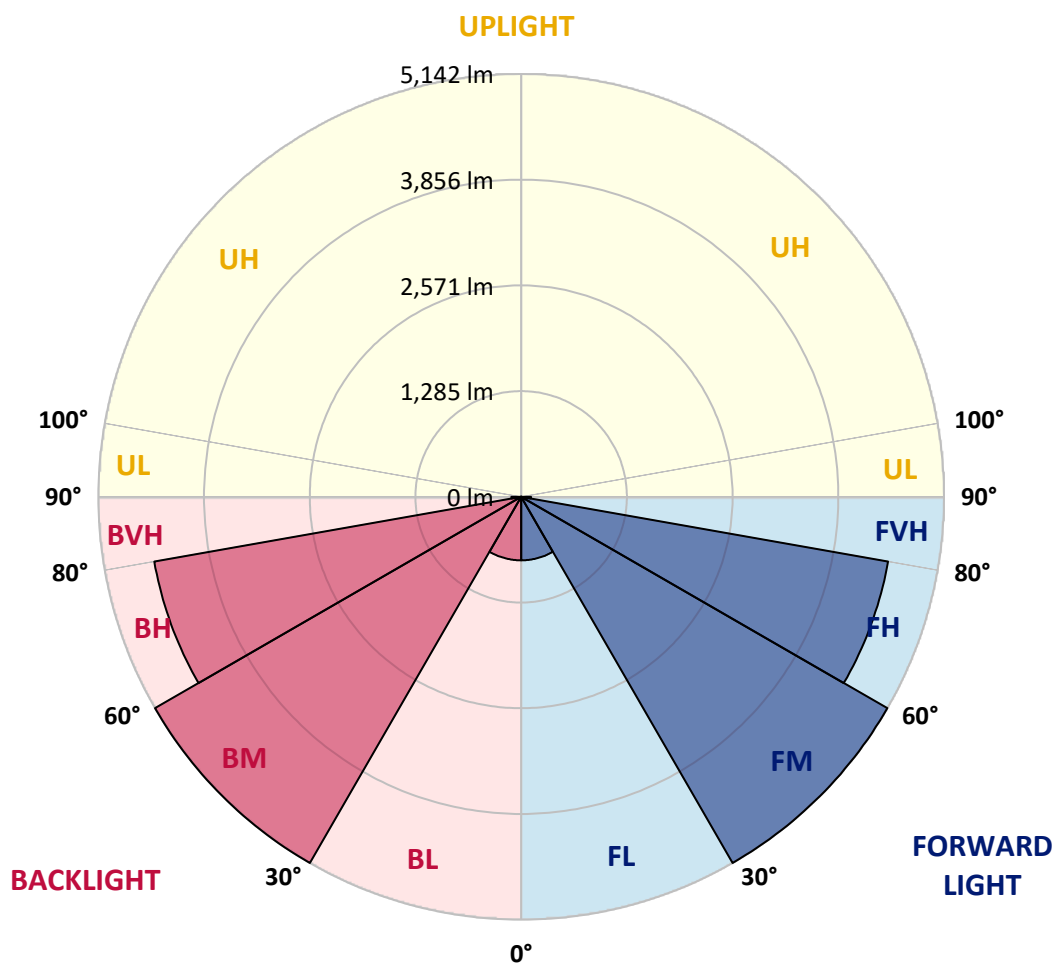
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	771.9	3.7			
FM	(30°-60°)	5141.7	24.3			
FH	(60°-80°)	4530.2	21.4			G2/5000
FVH	(80°-90°)	119.0	0.6			G2/225
BL	(0°-30°)	771.9	3.7	B2/1000		
BM	(30°-60°)	5141.7	24.3	B4/8500		
BH	(60°-80°)	4530.2	21.4	B4/5000		G2/5000
BVH	(80°-90°)	119.0	0.6			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	47.5°
0°	1410.7	1410.7	1410.7	1410.7	1410.7	1410.7	1410.7	1410.7	1410.7	1410.7	1410.7
2.5°	1419.9	1417.3	1418.6	1419.9	1418.6	1417.3	1417.3	1417.3	1419.9	1417.3	1423.9
5°	1447.6	1445.0	1446.3	1446.3	1446.3	1443.7	1443.7	1443.7	1442.4	1443.7	1458.2
7.5°	1500.5	1496.5	1495.2	1497.8	1495.2	1493.9	1492.5	1492.5	1489.9	1489.9	1508.4
10°	1563.9	1558.6	1561.2	1562.6	1558.6	1555.9	1555.9	1555.9	1552.0	1550.7	1574.4
12.5°	1633.9	1631.2	1631.2	1628.6	1627.3	1624.6	1623.3	1624.6	1619.3	1619.3	1643.1
15°	1701.2	1696.0	1697.3	1693.3	1690.7	1688.0	1686.7	1685.4	1682.8	1682.8	1697.3
17.5°	1763.3	1759.4	1758.0	1754.1	1750.1	1746.2	1743.5	1742.2	1738.2	1738.2	1751.4
20°	1828.0	1824.1	1821.4	1814.8	1808.2	1804.3	1799.0	1796.3	1791.1	1792.4	1806.9
22.5°	1902.0	1895.4	1890.1	1884.8	1873.0	1865.0	1858.4	1853.1	1850.5	1850.5	1870.3
25°	2001.1	1997.1	1989.2	1972.0	1957.5	1945.6	1935.0	1929.7	1924.5	1921.8	1952.2
27.5°	2122.6	2118.6	2108.1	2090.9	2071.1	2051.3	2039.4	2030.1	2023.5	2019.6	2063.2
30°	2283.7	2277.1	2267.9	2240.1	2223.0	2192.6	2179.4	2166.2	2151.6	2155.6	2207.1
32.5°	2599.4	2590.2	2561.1	2530.7	2477.9	2436.9	2394.7	2363.0	2332.6	2328.6	2384.1
35°	2886.0	2882.1	2876.8	2855.7	2835.8	2810.7	2790.9	2757.9	2730.2	2723.6	2879.4
37.5°	3040.6	3049.8	3041.9	3039.3	3039.3	3051.1	3088.1	3125.1	3151.5	3167.4	3254.5
40°	3277.0	3277.0	3267.8	3262.5	3251.9	3267.8	3283.6	3311.3	3323.2	3324.6	3413.1
42.5°	3545.1	3546.5	3537.2	3521.4	3516.1	3530.6	3551.7	3578.2	3594.0	3598.0	3701.0
45°	3843.6	3839.7	3831.8	3826.5	3830.4	3843.6	3868.7	3920.3	3944.0	3962.5	4074.8
47.5°	4167.2	4193.7	4171.2	4175.2	4175.2	4216.1	4272.9	4315.2	4353.5	4389.2	4508.0
50°	4591.2	4595.2	4599.2	4611.1	4619.0	4673.1	4744.5	4794.6	4850.1	4896.4	5090.5
52.5°	5157.9	5150.0	5169.8	5183.0	5227.9	5256.9	5375.8	5439.2	5515.8	5575.3	5859.2
55°	5835.5	5831.5	5860.6	5871.1	5930.6	6001.9	6134.0	6272.7	6403.4	6476.1	6864.4
57.5°	6321.5	6332.1	6382.3	6452.3	6568.5	6720.4	6917.2	7223.7	7472.0	7551.2	7979.2
60°	6428.5	6462.9	6538.2	6678.2	6877.6	7160.3	7547.3	8016.2	8470.5	8622.4	9024.0
62.5°	6128.7	6168.3	6279.3	6447.0	6707.2	7125.9	7684.6	8346.4	9021.3	9359.5	9561.6
63°	6033.6	6082.5	6165.7	6359.8	6624.0	7037.4	7631.8	8345.1	9045.1	9413.6	9572.1
65°	5587.2	5596.4	5720.6	5914.7	6211.9	6641.2	7240.8	8065.0	8841.7	9267.0	9157.4
67.5°	4807.9	4846.2	4950.5	5146.0	5435.3	5881.7	6532.9	7295.0	7977.9	8317.3	7827.3
70°	3884.6	3881.9	4011.4	4168.6	4423.5	4815.8	5386.4	6074.5	6616.1	6863.1	6042.8
72.5°	2775.1	2706.4	2801.5	2975.9	3184.5	3497.6	3949.3	4484.3	4969.0	5183.0	4418.2
75°	1264.0	1245.6	1330.1	1503.1	1714.5	1993.1	2364.3	2826.6	3291.5	3542.5	2814.7
77.5°	425.3	430.6	463.6	525.7	639.3	779.3	1010.4	1306.3	1682.8	1931.1	1320.8
80°	285.3	293.2	303.8	313.0	326.2	347.4	397.6	474.2	590.4	714.6	417.4
82.5°	233.8	243.0	266.8	277.4	285.3	291.9	295.9	301.2	301.2	303.8	264.2
85°	167.7	183.6	215.3	235.1	243.0	248.3	254.9	262.8	251.0	240.4	204.7
87.5°	58.1	79.3	116.2	128.1	137.4	138.7	147.9	163.8	155.9	126.8	62.1
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°	1410.7	1410.7	1410.7	1410.7	1410.7	1410.7	1410.7	1410.7	1410.7
2.5°	1417.3	1415.9	1417.3	1418.6	1418.6	1418.6	1419.9	1421.2	1421.2
5°	1443.7	1445.0	1443.7	1445.0	1445.0	1446.3	1446.3	1449.0	1449.0
7.5°	1488.6	1491.2	1489.9	1492.5	1492.5	1495.2	1493.9	1497.8	1497.8
10°	1549.3	1552.0	1554.6	1555.9	1554.6	1557.3	1559.9	1561.2	1559.9
12.5°	1618.0	1619.3	1618.0	1620.7	1620.7	1623.3	1623.3	1627.3	1627.3
15°	1681.4	1680.1	1678.8	1682.8	1685.4	1686.7	1689.4	1693.3	1689.4
17.5°	1738.2	1739.5	1736.9	1740.9	1746.2	1750.1	1752.8	1758.0	1756.7
20°	1795.0	1792.4	1795.0	1801.6	1806.9	1812.2	1817.5	1825.4	1824.1
22.5°	1850.5	1853.1	1859.7	1865.0	1874.3	1882.2	1888.8	1899.4	1903.3
25°	1928.4	1928.4	1939.0	1945.6	1958.8	1969.4	1983.9	1995.8	2002.4
27.5°	2027.5	2027.5	2039.4	2053.9	2073.7	2092.2	2108.1	2123.9	2121.3
30°	2162.2	2168.8	2179.4	2197.9	2224.3	2246.7	2267.9	2283.7	2285.1
32.5°	2339.2	2347.1	2378.8	2426.4	2481.9	2524.1	2555.8	2594.1	2599.4
35°	2740.7	2760.6	2801.5	2839.8	2862.3	2887.4	2903.2	2904.5	2907.2
37.5°	3163.4	3129.1	3097.4	3068.3	3055.1	3052.5	3052.5	3057.7	3060.4
40°	3317.9	3300.8	3286.2	3267.8	3273.0	3271.7	3281.0	3288.9	3294.2
42.5°	3582.1	3568.9	3555.7	3531.9	3545.1	3541.2	3554.4	3566.3	3572.9
45°	3950.6	3909.7	3880.6	3842.3	3855.5	3847.6	3847.6	3862.1	3864.8
47.5°	4357.5	4309.9	4250.5	4202.9	4187.1	4172.5	4185.7	4185.7	4171.2
50°	4844.8	4788.0	4718.0	4641.4	4615.0	4600.5	4605.8	4612.4	4571.4
52.5°	5506.6	5443.2	5344.1	5227.9	5202.8	5190.9	5188.3	5179.0	5168.4
55°	6403.4	6284.6	6163.0	6009.8	5963.6	5950.4	5951.7	5941.1	5966.2
57.5°	7461.4	7287.1	7007.1	6820.8	6709.9	6667.6	6629.3	6613.4	6614.8
60°	8508.9	8153.5	7734.8	7409.9	7177.4	7029.5	6913.3	6848.6	6830.1
62.5°	9183.8	8625.1	7996.4	7469.3	7087.6	6843.3	6659.7	6543.4	6506.5
63°	9236.6	8644.9	7972.6	7407.3	7005.7	6749.5	6556.6	6436.5	6396.8
65°	9121.7	8445.5	7662.2	6988.6	6548.7	6264.7	6056.1	5942.5	5912.1
67.5°	8228.8	7666.2	6868.4	6172.3	5728.5	5440.5	5201.5	5093.2	5058.8
70°	6694.0	6308.3	5654.5	5060.1	4646.7	4369.3	4127.6	4037.8	4036.5
72.5°	4962.4	4461.8	4072.1	3636.3	3275.7	3055.1	2845.1	2744.7	2694.5
75°	3282.3	2746.0	2310.1	1943.0	1583.7	1385.6	1149.1	1047.4	988.0
77.5°	1653.7	1225.7	878.4	608.9	472.9	388.3	355.3	338.1	336.8
80°	550.8	413.4	355.3	332.9	326.2	327.6	323.6	317.0	309.1
82.5°	305.1	321.0	323.6	314.4	314.4	309.1	303.8	278.7	265.5
85°	261.5	287.9	290.6	285.3	284.0	276.1	266.8	232.5	212.7
87.5°	163.8	188.9	184.9	165.1	182.3	170.4	161.1	104.3	76.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)