

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: P157379

Luminaire Tested: **VST-E08-LED-E-U-5MQ-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P157379
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-E08-LED-E-U-5MQ-7030
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(8) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE MEDIUM
Light Source: (168) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23373.4 lumens
Efficiency: N/A
Efficacy: 120.2 lumens/watt
Luminous Opening: Rectangular (W 1.33' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B5 - U0 - G3

Input Watts (W): 194.5
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

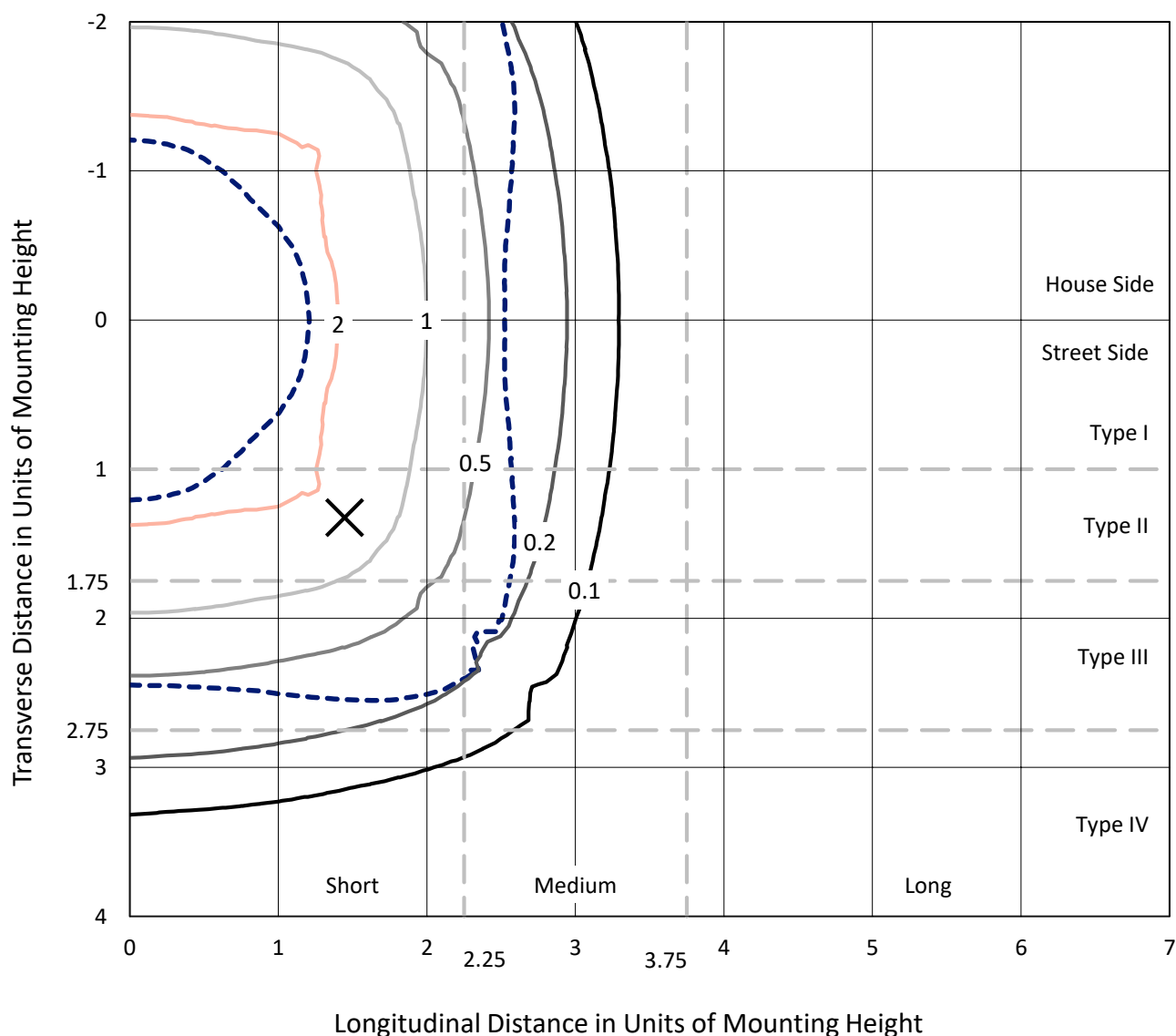


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

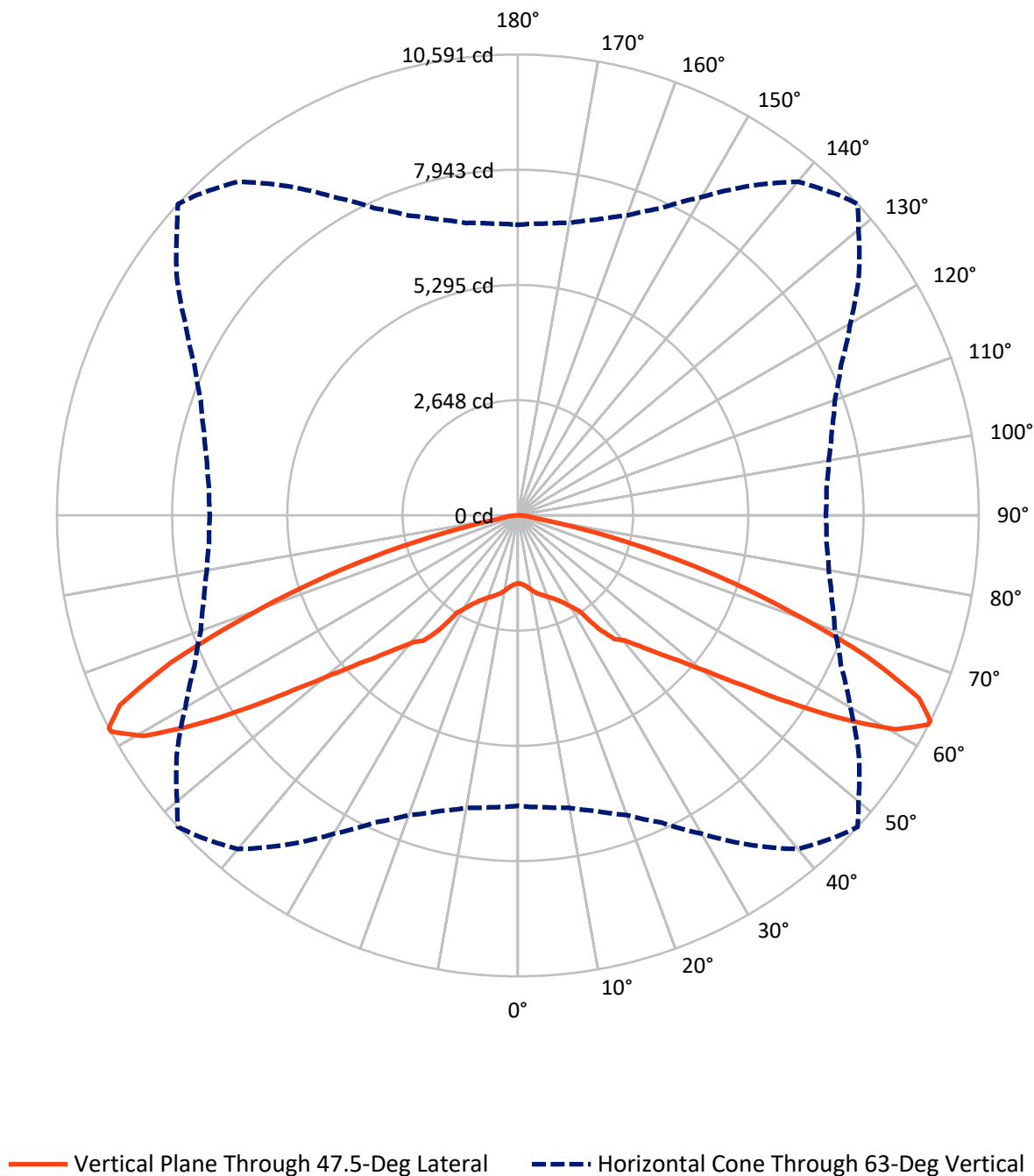


Based on 25 foot mounting height. Maximum calculated value = 2.7 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11686.7	0.0	11686.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	11686.7	0.0	11686.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	23373.4	0.0	23373.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.7	0.7
10°-20°	532.6	2.3
20°-30°	1018.8	4.4
30°-40°	1948.9	8.3
40°-50°	3372.2	14.4
50°-60°	6056.4	25.9
60°-70°	7364.6	31.5
70°-80°	2659.7	11.4
80°-90°	263.4	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°	23373.4	100.0
0°-180°	23373.4	100.0

Coefficient of Utilization



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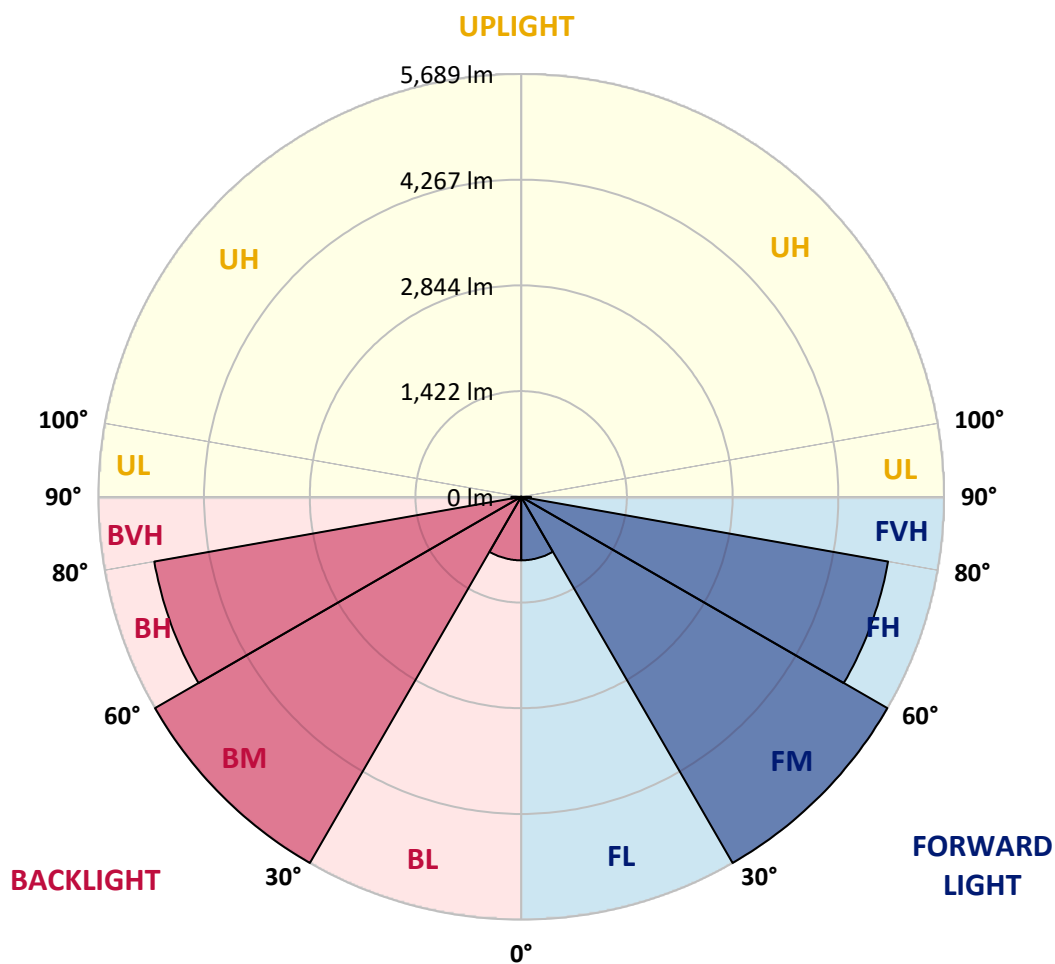
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	854.1	3.7			
FM	(30°-60°)	5688.8	24.3			
FH	(60°-80°)	5012.2	21.4			G3/7500
FVH	(80°-90°)	131.7	0.6			G2/225
BL	(0°-30°)	854.1	3.7	B2/1000		
BM	(30°-60°)	5688.8	24.3	B4/8500		
BH	(60°-80°)	5012.2	21.4	B5		G3/7500
BVH	(80°-90°)	131.7	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°	1560.7	1560.7	1560.7	1560.7	1560.7	1560.7	1560.7	1560.7	1560.7	1560.7	1560.7
2.5°	1571.0	1568.0	1569.5	1571.0	1569.5	1568.0	1568.0	1568.0	1571.0	1568.0	1575.3
5°	1601.7	1598.7	1600.2	1600.2	1600.2	1597.3	1597.3	1597.3	1595.8	1597.3	1613.3
7.5°	1660.1	1655.7	1654.3	1657.2	1654.3	1652.8	1651.3	1651.3	1648.4	1648.4	1668.9
10°	1730.3	1724.4	1727.3	1728.8	1724.4	1721.5	1721.5	1721.5	1717.1	1715.6	1741.9
12.5°	1807.7	1804.8	1804.8	1801.9	1800.4	1797.5	1796.0	1797.5	1791.6	1791.6	1817.9
15°	1882.2	1876.4	1877.8	1873.5	1870.5	1867.6	1866.2	1864.7	1861.8	1861.8	1877.8
17.5°	1950.9	1946.5	1945.1	1940.7	1936.3	1931.9	1929.0	1927.5	1923.2	1923.2	1937.8
20°	2022.5	2018.1	2015.2	2007.9	2000.6	1996.2	1990.4	1987.5	1981.6	1983.1	1999.1
22.5°	2104.4	2097.1	2091.2	2085.4	2072.2	2063.4	2056.1	2050.3	2047.4	2047.4	2069.3
25°	2214.0	2209.6	2200.8	2181.8	2165.7	2152.6	2140.9	2135.0	2129.2	2126.3	2159.9
27.5°	2348.4	2344.0	2332.3	2313.3	2291.4	2269.5	2256.3	2246.1	2238.8	2234.4	2282.6
30°	2526.7	2519.4	2509.2	2478.5	2459.5	2425.9	2411.2	2396.6	2380.6	2384.9	2441.9
32.5°	2876.0	2865.7	2833.6	2800.0	2741.5	2696.2	2649.4	2614.4	2580.8	2576.4	2637.8
35°	3193.1	3188.7	3182.8	3159.5	3137.5	3109.8	3087.9	3051.3	3020.6	3013.3	3185.8
37.5°	3364.1	3374.3	3365.5	3362.6	3362.6	3375.7	3416.7	3457.6	3486.8	3504.3	3600.8
40°	3625.6	3625.6	3615.4	3609.6	3597.9	3615.4	3632.9	3663.6	3676.8	3678.2	3776.2
42.5°	3922.3	3923.8	3913.5	3896.0	3890.1	3906.2	3929.6	3958.8	3976.4	3980.7	4094.7
45°	4252.6	4248.2	4239.4	4233.6	4237.9	4252.6	4280.3	4337.3	4363.6	4384.1	4508.3
47.5°	4610.6	4639.8	4615.0	4619.4	4619.4	4664.7	4727.5	4774.3	4816.6	4856.1	4987.6
50°	5079.7	5084.1	5088.5	5101.6	5110.4	5170.3	5249.2	5304.7	5366.1	5417.3	5632.1
52.5°	5706.6	5697.8	5719.8	5734.4	5784.1	5816.2	5947.7	6017.9	6102.6	6168.4	6482.6
55°	6456.3	6451.9	6484.1	6495.7	6561.5	6640.4	6786.6	6940.0	7084.7	7165.1	7594.7
57.5°	6994.1	7005.8	7061.3	7138.7	7267.3	7435.4	7653.1	7992.2	8266.9	8354.6	8828.1
60°	7112.4	7150.4	7233.7	7388.6	7609.3	7922.0	8350.2	8869.0	9371.7	9539.8	9984.0
62.5°	6780.7	6824.6	6947.3	7132.9	7420.8	7884.0	8502.2	9234.3	9981.1	10355.2	10578.8
63°	6675.5	6729.6	6821.6	7036.5	7328.7	7786.1	8443.7	9232.9	10007.4	10415.1	10590.5
65°	6181.6	6191.8	6329.2	6544.0	6872.8	7347.7	8011.2	8923.1	9782.3	10252.9	10131.6
67.5°	5319.4	5361.7	5477.2	5693.5	6013.5	6507.4	7227.9	8071.1	8826.6	9202.2	8660.0
70°	4297.9	4294.9	4438.2	4612.1	4894.1	5328.1	5959.4	6720.8	7320.0	7593.2	6685.7
72.5°	3070.3	2994.3	3099.5	3292.4	3523.3	3869.7	4369.5	4961.3	5497.6	5734.4	4888.3
75°	1398.5	1378.1	1471.6	1663.0	1896.8	2205.2	2615.8	3127.3	3641.7	3919.4	3114.2
77.5°	470.6	476.4	512.9	581.6	707.3	862.2	1117.9	1445.3	1861.8	2136.5	1461.4
80°	315.7	324.4	336.1	346.3	361.0	384.3	439.9	524.6	653.2	790.6	461.8
82.5°	258.7	268.9	295.2	306.9	315.7	323.0	327.3	333.2	333.2	336.1	292.3
85°	185.6	203.1	238.2	260.1	268.9	274.7	282.0	290.8	277.7	266.0	226.5
87.5°	64.3	87.7	128.6	141.8	152.0	153.4	163.7	181.2	172.4	140.3	68.7
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°	1560.7	1560.7	1560.7	1560.7	1560.7	1560.7	1560.7	1560.7	1560.7
2.5°	1568.0	1566.6	1568.0	1569.5	1569.5	1569.5	1571.0	1572.4	1572.4
5°	1597.3	1598.7	1597.3	1598.7	1598.7	1600.2	1600.2	1603.1	1603.1
7.5°	1647.0	1649.9	1648.4	1651.3	1651.3	1654.3	1652.8	1657.2	1657.2
10°	1714.2	1717.1	1720.0	1721.5	1720.0	1722.9	1725.9	1727.3	1725.9
12.5°	1790.2	1791.6	1790.2	1793.1	1793.1	1796.0	1796.0	1800.4	1800.4
15°	1860.3	1858.9	1857.4	1861.8	1864.7	1866.2	1869.1	1873.5	1869.1
17.5°	1923.2	1924.6	1921.7	1926.1	1931.9	1936.3	1939.2	1945.1	1943.6
20°	1986.0	1983.1	1986.0	1993.3	1999.1	2005.0	2010.8	2019.6	2018.1
22.5°	2047.4	2050.3	2057.6	2063.4	2073.7	2082.4	2089.7	2101.4	2105.8
25°	2133.6	2133.6	2145.3	2152.6	2167.2	2178.9	2195.0	2208.1	2215.4
27.5°	2243.2	2243.2	2256.3	2272.4	2294.3	2314.8	2332.3	2349.9	2346.9
30°	2392.2	2399.6	2411.2	2431.7	2460.9	2485.8	2509.2	2526.7	2528.2
32.5°	2588.1	2596.8	2631.9	2684.5	2745.9	2792.7	2827.7	2870.1	2876.0
35°	3032.3	3054.2	3099.5	3141.9	3166.8	3194.5	3212.1	3213.5	3216.5
37.5°	3500.0	3462.0	3426.9	3394.7	3380.1	3377.2	3377.2	3383.0	3386.0
40°	3670.9	3651.9	3635.9	3615.4	3621.3	3619.8	3630.0	3638.8	3644.6
42.5°	3963.2	3948.6	3934.0	3907.7	3922.3	3917.9	3932.5	3945.7	3953.0
45°	4370.9	4325.6	4293.5	4251.1	4265.7	4256.9	4256.9	4273.0	4275.9
47.5°	4821.0	4768.4	4702.7	4650.0	4632.5	4616.4	4631.1	4631.1	4615.0
50°	5360.3	5297.4	5220.0	5135.2	5106.0	5089.9	5095.8	5103.1	5057.8
52.5°	6092.4	6022.3	5912.7	5784.1	5756.3	5743.1	5740.2	5730.0	5718.3
55°	7084.7	6953.2	6818.7	6649.2	6598.0	6583.4	6584.9	6573.2	6601.0
57.5°	8255.2	8062.3	7752.5	7546.5	7423.7	7376.9	7334.6	7317.0	7318.5
60°	9414.1	9021.0	8557.7	8198.2	7941.0	7777.4	7648.8	7577.2	7556.7
62.5°	10160.8	9542.7	8847.1	8264.0	7841.7	7571.3	7368.2	7239.6	7198.7
63°	10219.3	9564.6	8820.8	8195.3	7751.1	7467.6	7254.2	7121.2	7077.4
65°	10092.2	9343.9	8477.4	7732.1	7245.4	6931.2	6700.3	6574.7	6541.0
67.5°	9104.3	8481.7	7599.1	6828.9	6337.9	6019.3	5754.8	5635.0	5597.0
70°	7406.2	6979.5	6256.1	5598.5	5141.1	4834.2	4566.8	4467.4	4465.9
72.5°	5490.3	4936.5	4505.4	4023.1	3624.2	3380.1	3147.8	3036.7	2981.2
75°	3631.5	3038.2	2555.9	2149.7	1752.2	1533.0	1271.4	1158.9	1093.1
77.5°	1829.6	1356.1	971.8	673.7	523.2	429.6	393.1	374.1	372.6
80°	609.4	457.4	393.1	368.3	361.0	362.4	358.0	350.7	342.0
82.5°	337.6	355.1	358.0	347.8	347.8	342.0	336.1	308.3	293.7
85°	289.3	318.6	321.5	315.7	314.2	305.4	295.2	257.2	235.3
87.5°	181.2	209.0	204.6	182.7	201.7	188.5	178.3	115.4	84.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)