

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: P157372

Luminaire Tested: **VST-E07-LED-E-U-5MQ-7060**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P157372
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-E07-LED-E-U-5MQ-7060
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(7) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE MEDIUM
Light Source: (147) 5700K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22976.6 lumens
Efficiency: N/A
Efficacy: 133.2 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B4 - U0 - G2

Input Watts (W): 172.5
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

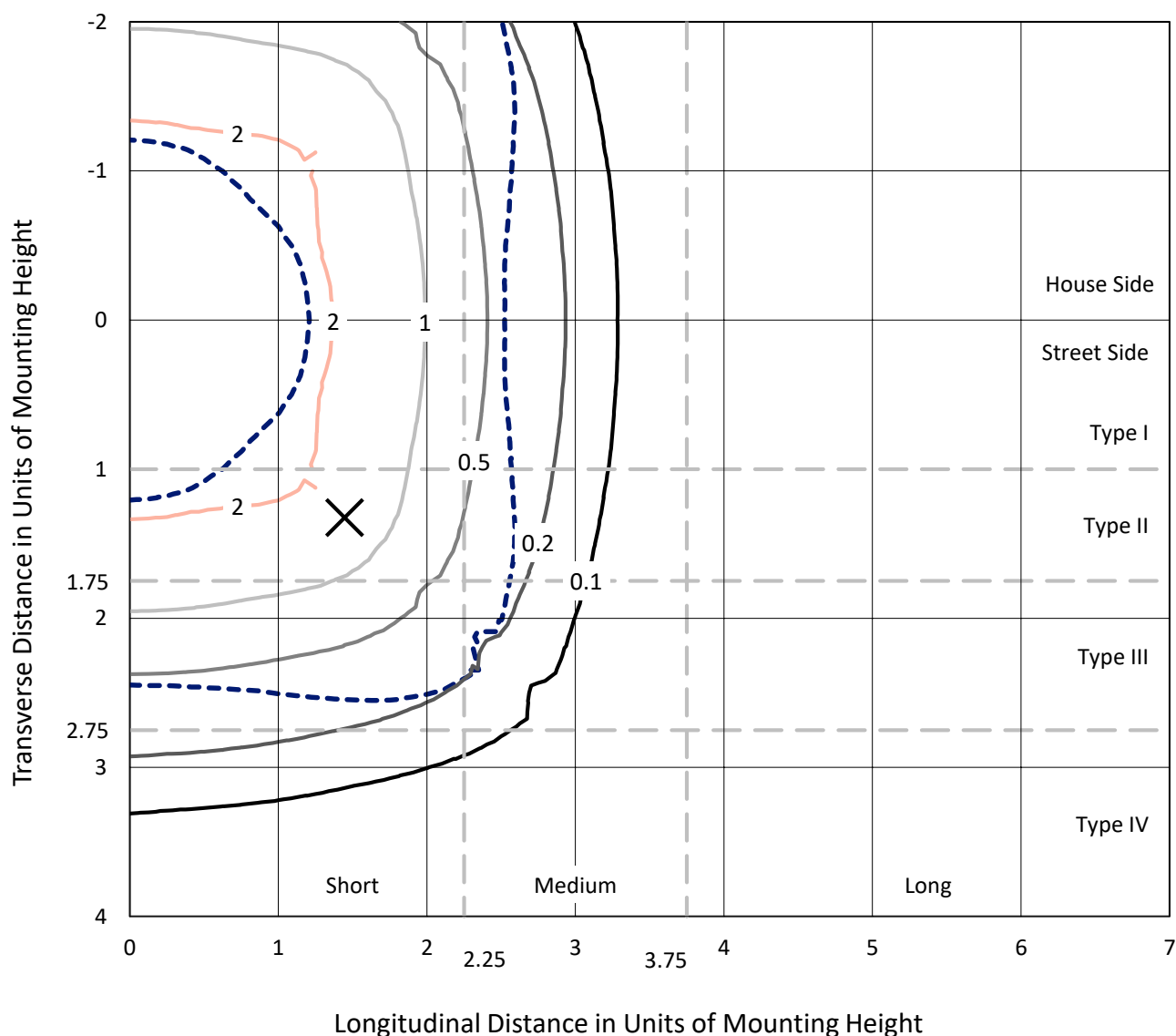


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

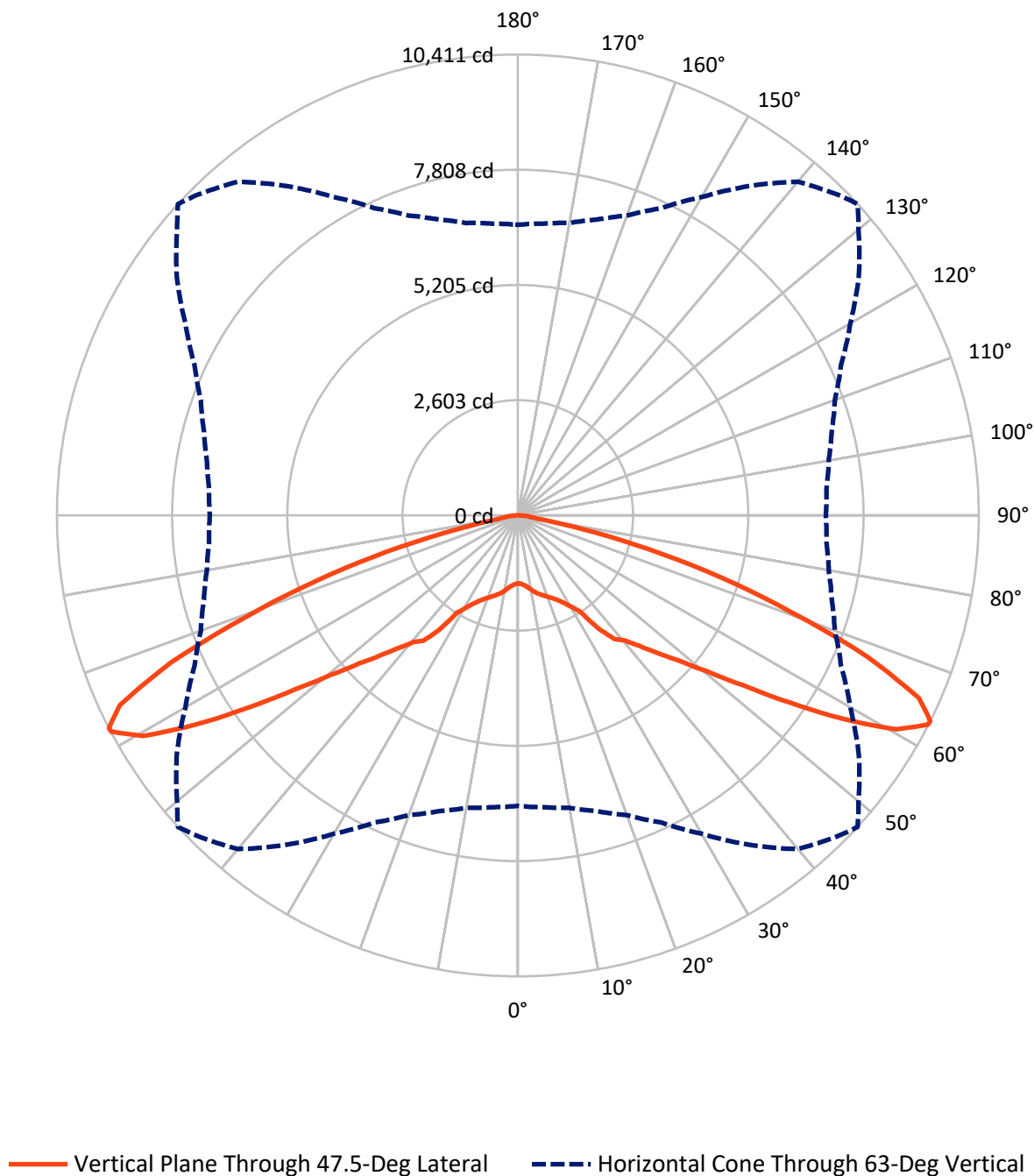


Based on 25 foot mounting height. Maximum calculated value = 2.7 fc
Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11488.3	0.0	11488.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	11488.3	0.0	11488.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	22976.6	0.0	22976.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.0	0.7
10°-20°	523.6	2.3
20°-30°	1001.5	4.4
30°-40°	1915.8	8.3
40°-50°	3315.0	14.4
50°-60°	5953.5	25.9
60°-70°	7239.6	31.5
70°-80°	2614.6	11.4
80°-90°	258.9	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°	22976.6	100.0
0°-180°	22976.6	100.0

Coefficient of Utilization



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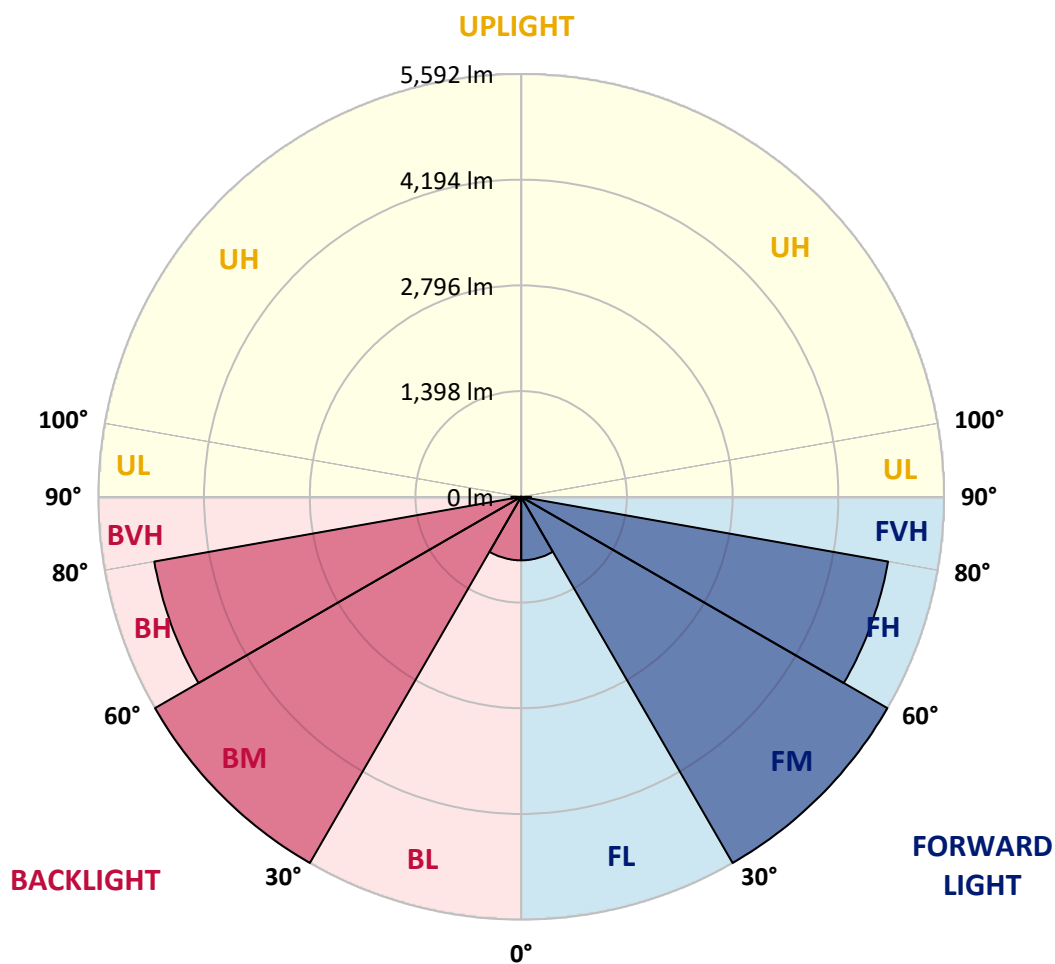
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	839.6	3.7			
FM	(30°-60°)	5592.2	24.3			
FH	(60°-80°)	4927.1	21.4			G2/5000
FVH	(80°-90°)	129.5	0.6			G2/225
BL	(0°-30°)	839.6	3.7	B2/1000		
BM	(30°-60°)	5592.2	24.3	B4/8500		
BH	(60°-80°)	4927.1	21.4	B4/5000		G2/5000
BVH	(80°-90°)	129.5	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°	1534.2	1534.2	1534.2	1534.2	1534.2	1534.2	1534.2	1534.2	1534.2	1534.2	1534.2
2.5°	1544.3	1541.4	1542.9	1544.3	1542.9	1541.4	1541.4	1541.4	1544.3	1541.4	1548.6
5°	1574.5	1571.6	1573.0	1573.0	1573.0	1570.1	1570.1	1570.1	1568.7	1570.1	1585.9
7.5°	1631.9	1627.6	1626.2	1629.0	1626.2	1624.7	1623.3	1623.3	1620.4	1620.4	1640.5
10°	1700.9	1695.1	1698.0	1699.4	1695.1	1692.3	1692.3	1692.3	1687.9	1686.5	1712.4
12.5°	1777.0	1774.1	1774.1	1771.3	1769.8	1767.0	1765.5	1767.0	1761.2	1761.2	1787.1
15°	1850.3	1844.5	1846.0	1841.7	1838.8	1835.9	1834.5	1833.0	1830.2	1830.2	1846.0
17.5°	1917.8	1913.5	1912.0	1907.7	1903.4	1899.1	1896.2	1894.8	1890.5	1890.5	1904.9
20°	1988.2	1983.9	1981.0	1973.8	1966.6	1962.3	1956.6	1953.7	1948.0	1949.4	1965.2
22.5°	2068.6	2061.4	2055.7	2050.0	2037.0	2028.4	2021.2	2015.5	2012.6	2012.6	2034.2
25°	2176.4	2172.1	2163.4	2144.8	2129.0	2116.0	2104.5	2098.8	2093.0	2090.2	2123.2
27.5°	2308.5	2304.2	2292.7	2274.1	2252.5	2231.0	2218.0	2208.0	2200.8	2196.5	2243.9
30°	2483.8	2476.6	2466.6	2436.4	2417.7	2384.7	2370.3	2355.9	2340.1	2344.4	2400.5
32.5°	2827.1	2817.1	2785.5	2752.4	2695.0	2650.4	2604.5	2570.0	2536.9	2532.6	2593.0
35°	3138.9	3134.5	3128.8	3105.8	3084.3	3057.0	3035.4	2999.5	2969.3	2962.2	3131.7
37.5°	3306.9	3317.0	3308.4	3305.5	3305.5	3318.4	3358.6	3398.9	3427.6	3444.8	3539.7
40°	3564.1	3564.1	3554.0	3548.3	3536.8	3554.0	3571.3	3601.4	3614.4	3615.8	3712.0
42.5°	3855.7	3857.1	3847.1	3829.8	3824.1	3839.9	3862.9	3891.6	3908.8	3913.2	4025.2
45°	4180.4	4176.0	4167.4	4161.7	4166.0	4180.4	4207.6	4263.7	4289.5	4309.6	4431.7
47.5°	4532.3	4561.0	4536.6	4540.9	4540.9	4585.5	4647.2	4693.2	4734.9	4773.6	4902.9
50°	4993.4	4997.7	5002.1	5015.0	5023.6	5082.5	5160.1	5214.7	5275.0	5325.3	5536.5
52.5°	5609.7	5601.1	5622.6	5637.0	5685.9	5717.5	5846.7	5915.7	5999.0	6063.7	6372.5
55°	6346.7	6342.4	6374.0	6385.5	6450.1	6527.7	6671.3	6822.2	6964.4	7043.4	7465.7
57.5°	6875.3	6886.8	6941.4	7017.5	7144.0	7309.2	7523.2	7856.5	8126.5	8212.7	8678.2
60°	6991.7	7029.0	7110.9	7263.2	7480.1	7787.5	8208.4	8718.4	9212.6	9377.8	9814.5
62.5°	6665.6	6708.7	6829.3	7011.8	7294.8	7750.2	8357.8	9077.5	9811.6	10179.4	10399.2
63°	6562.1	6615.3	6705.8	6917.0	7204.3	7653.9	8300.4	9076.1	9837.5	10238.3	10410.7
65°	6076.6	6086.7	6221.7	6432.9	6756.1	7223.0	7875.2	8771.6	9616.2	10078.8	9959.6
67.5°	5229.0	5270.7	5384.2	5596.8	5911.4	6396.9	7105.2	7934.1	8676.7	9045.9	8513.0
70°	4224.9	4222.0	4362.8	4533.7	4811.0	5237.7	5858.2	6606.7	7195.7	7464.3	6572.2
72.5°	3018.2	2943.5	3046.9	3236.5	3463.5	3804.0	4295.3	4877.1	5404.3	5637.0	4805.3
75°	1374.8	1354.7	1446.6	1634.8	1864.6	2167.8	2571.4	3074.2	3579.9	3852.8	3061.3
77.5°	462.6	468.3	504.2	571.7	695.3	847.6	1099.0	1420.7	1830.2	2100.2	1436.5
80°	310.3	318.9	330.4	340.5	354.8	377.8	432.4	515.7	642.1	777.2	453.9
82.5°	254.3	264.3	290.2	301.7	310.3	317.5	321.8	327.5	327.5	330.4	287.3
85°	182.4	199.7	234.2	255.7	264.3	270.1	277.3	285.9	272.9	261.5	222.7
87.5°	63.2	86.2	126.4	139.3	149.4	150.8	160.9	178.1	169.5	137.9	67.5
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°	1534.2	1534.2	1534.2	1534.2	1534.2	1534.2	1534.2	1534.2	1534.2
2.5°	1541.4	1540.0	1541.4	1542.9	1542.9	1542.9	1544.3	1545.7	1545.7
5°	1570.1	1571.6	1570.1	1571.6	1571.6	1573.0	1573.0	1575.9	1575.9
7.5°	1619.0	1621.9	1620.4	1623.3	1623.3	1626.2	1624.7	1629.0	1629.0
10°	1685.1	1687.9	1690.8	1692.3	1690.8	1693.7	1696.6	1698.0	1696.6
12.5°	1759.8	1761.2	1759.8	1762.6	1762.6	1765.5	1765.5	1769.8	1769.8
15°	1828.7	1827.3	1825.9	1830.2	1833.0	1834.5	1837.3	1841.7	1837.3
17.5°	1890.5	1891.9	1889.1	1893.4	1899.1	1903.4	1906.3	1912.0	1910.6
20°	1952.3	1949.4	1952.3	1959.5	1965.2	1970.9	1976.7	1985.3	1983.9
22.5°	2012.6	2015.5	2022.7	2028.4	2038.5	2047.1	2054.3	2065.8	2070.1
25°	2097.4	2097.4	2108.9	2116.0	2130.4	2141.9	2157.7	2170.6	2177.8
27.5°	2205.1	2205.1	2218.0	2233.8	2255.4	2275.5	2292.7	2310.0	2307.1
30°	2351.6	2358.8	2370.3	2390.4	2419.1	2443.6	2466.6	2483.8	2485.2
32.5°	2544.1	2552.7	2587.2	2638.9	2699.3	2745.2	2779.7	2821.4	2827.1
35°	2980.8	3002.4	3046.9	3088.6	3113.0	3140.3	3157.5	3159.0	3161.8
37.5°	3440.5	3403.2	3368.7	3337.1	3322.7	3319.9	3319.9	3325.6	3328.5
40°	3608.6	3589.9	3574.1	3554.0	3559.8	3558.3	3568.4	3577.0	3582.7
42.5°	3895.9	3881.6	3867.2	3841.3	3855.7	3851.4	3865.7	3878.7	3885.9
45°	4296.7	4252.2	4220.6	4178.9	4193.3	4184.7	4184.7	4200.5	4203.3
47.5°	4739.2	4687.5	4622.8	4571.1	4553.9	4538.1	4552.4	4552.4	4536.6
50°	5269.3	5207.5	5131.3	5048.0	5019.3	5003.5	5009.2	5016.4	4971.9
52.5°	5989.0	5920.0	5812.3	5685.9	5658.6	5645.6	5642.8	5632.7	5621.2
55°	6964.4	6835.1	6702.9	6536.3	6486.0	6471.6	6473.1	6461.6	6488.9
57.5°	8115.1	7925.4	7620.9	7418.3	7297.7	7251.7	7210.0	7192.8	7194.2
60°	9254.2	8867.8	8412.4	8059.0	7806.2	7645.3	7518.9	7448.5	7428.4
62.5°	9988.3	9380.7	8696.9	8123.7	7708.5	7442.8	7243.1	7116.7	7076.4
63°	10045.8	9402.2	8671.0	8056.2	7619.4	7340.8	7131.0	7000.3	6957.2
65°	9920.8	9185.3	8333.4	7600.8	7122.4	6813.5	6586.6	6463.0	6430.0
67.5°	8949.7	8337.7	7470.0	6713.0	6230.3	5917.1	5657.1	5539.3	5502.0
70°	7280.4	6861.0	6149.9	5503.4	5053.8	4752.1	4489.2	4391.5	4390.1
72.5°	5397.1	4852.7	4428.9	3954.8	3562.6	3322.7	3094.3	2985.1	2930.6
75°	3569.8	2986.6	2512.5	2113.2	1722.4	1506.9	1249.8	1139.2	1074.5
77.5°	1798.6	1333.1	955.3	662.2	514.3	422.3	386.4	367.8	366.3
80°	599.0	449.6	386.4	362.0	354.8	356.3	352.0	344.8	336.2
82.5°	331.8	349.1	352.0	341.9	341.9	336.2	330.4	303.1	288.7
85°	284.4	313.2	316.0	310.3	308.9	300.2	290.2	252.8	231.3
87.5°	178.1	205.4	201.1	179.6	198.2	185.3	175.3	113.5	83.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)