

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: McGRAW-EDISON

Report Number: P157294

Luminaire Tested: **VTS-F10-LED-E1-5MQ-7030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P157294  
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: MCGRAW-EDISON  
Catalog Number: VTS-F10-LED-E1-5MQ-7030  
Description: VENTUS LED SITE LUMINAIRE  
(10) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE MEDIUM  
Light Source: (70) 3000K CCT, 70 CRI LEDs  
Ballast/Driver: -

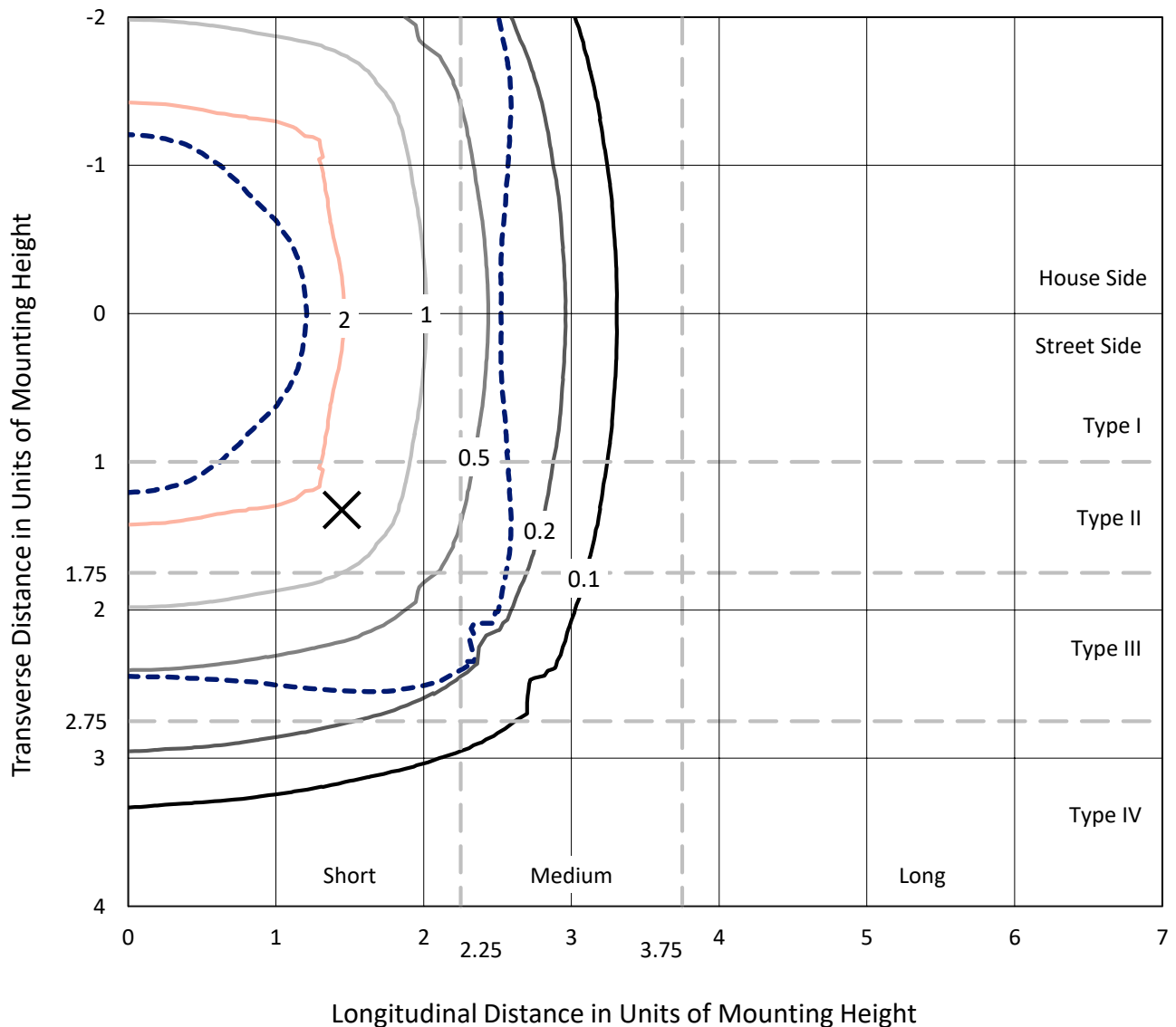
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 24119.2 lumens  
Efficiency: N/A  
Efficacy: 93.2 lumens/watt  
Luminous Opening: Rectangular (W 1.67' x L: 1' x H: 0')  
IES Classification: Type V - Short - Full Cutoff  
BUG Rating: B5 - U0 - G3  
  
Input Watts (W): 258.7  
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: 25 FT

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### Iso-Footcandle Lines of Horizontal Illumination

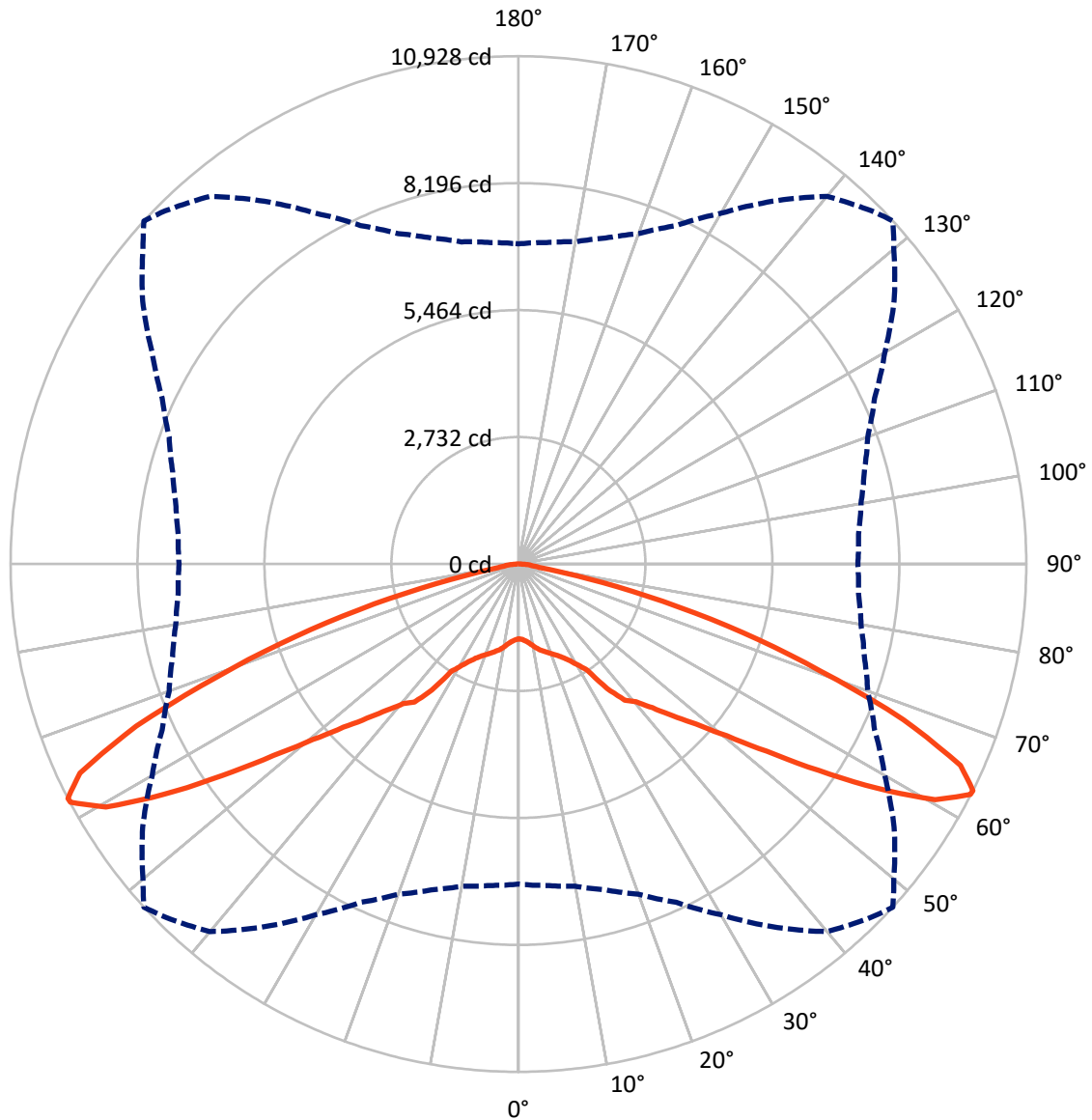
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 fc  
 Type V - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 47.5-Deg Lateral    - - - Horizontal Cone Through 63-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	12059.6	0.0	12059.6
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	12059.6	0.0	12059.6
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	24119.2	0.0	24119.2
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	161.7	0.7
10°-20°	549.6	2.3
20°-30°	1051.3	4.4
30°-40°	2011.1	8.3
40°-50°	3479.8	14.4
50°-60°	6249.6	25.9
60°-70°	7599.6	31.5
70°-80°	2744.6	11.4
80°-90°	271.8	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°	24119.2	100.0
0°-180°	24119.2	100.0



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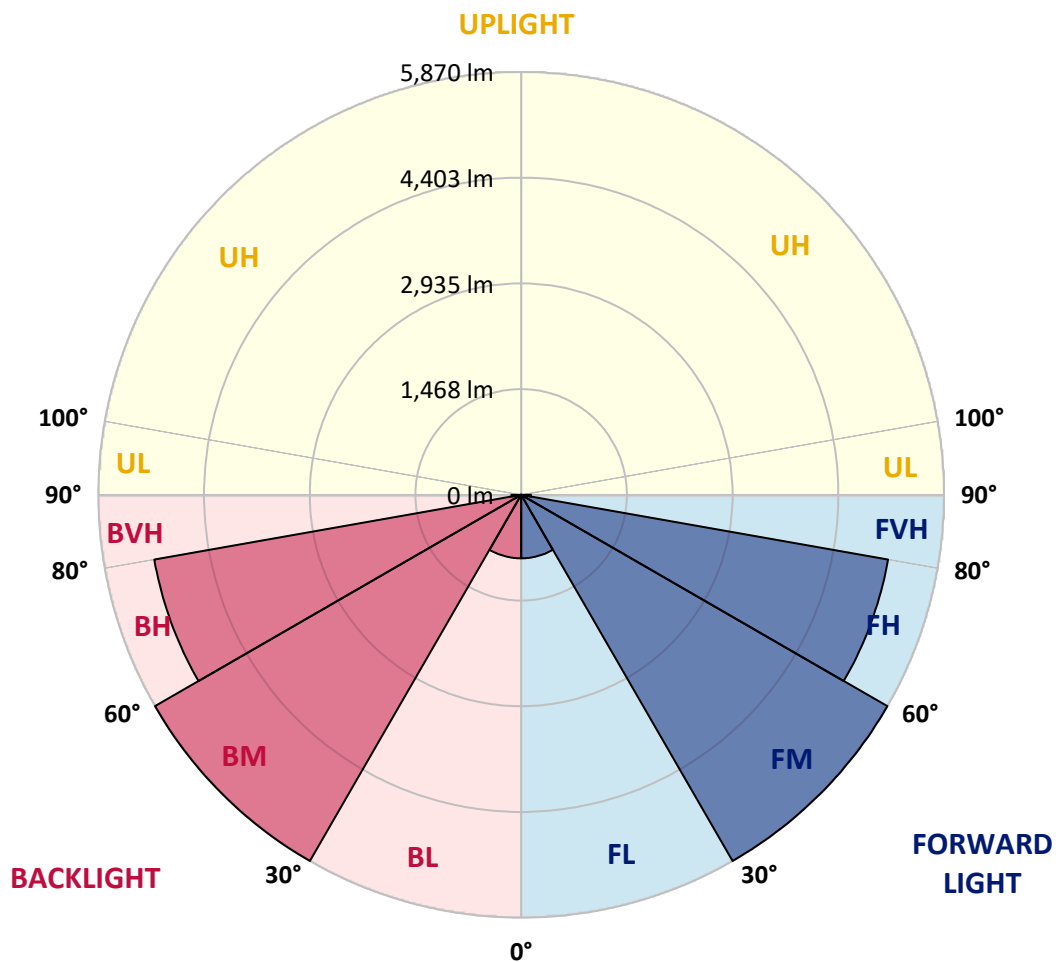
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	881.3	3.7			
FM	(30°-60°)	5870.3	24.3			
FH	(60°-80°)	5172.1	21.4			G3/7500
FVH	(80°-90°)	135.9	0.6			G2/225
BL	(0°-30°)	881.3	3.7	B2/1000		
BM	(30°-60°)	5870.3	24.3	B4/8500		
BH	(60°-80°)	5172.1	21.4	B5		G3/7500
BVH	(80°-90°)	135.9	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°	1610.5	1610.5	1610.5	1610.5	1610.5	1610.5	1610.5	1610.5	1610.5	1610.5	1610.5
2.5°	1621.1	1618.1	1619.6	1621.1	1619.6	1618.1	1618.1	1618.1	1621.1	1618.1	1625.6
5°	1652.8	1649.7	1651.2	1651.2	1651.2	1648.2	1648.2	1648.2	1646.7	1648.2	1664.8
7.5°	1713.1	1708.5	1707.0	1710.1	1707.0	1705.5	1704.0	1704.0	1701.0	1701.0	1722.1
10°	1785.5	1779.4	1782.4	1783.9	1779.4	1776.4	1776.4	1776.4	1771.9	1770.4	1797.5
12.5°	1865.4	1862.4	1862.4	1859.3	1857.8	1854.8	1853.3	1854.8	1848.8	1848.8	1875.9
15°	1942.3	1936.3	1937.8	1933.2	1930.2	1927.2	1925.7	1924.2	1921.2	1921.2	1937.8
17.5°	2013.2	2008.6	2007.1	2002.6	1998.1	1993.6	1990.5	1989.0	1984.5	1984.5	1999.6
20°	2087.1	2082.5	2079.5	2072.0	2064.4	2059.9	2053.9	2050.9	2044.8	2046.3	2062.9
22.5°	2171.5	2164.0	2157.9	2151.9	2138.3	2129.3	2121.7	2115.7	2112.7	2112.7	2135.3
25°	2284.6	2280.1	2271.0	2251.4	2234.8	2221.3	2209.2	2203.2	2197.1	2194.1	2228.8
27.5°	2423.3	2418.8	2406.7	2387.1	2364.5	2341.9	2328.3	2317.8	2310.2	2305.7	2355.5
30°	2607.3	2599.8	2589.2	2557.5	2537.9	2503.3	2488.2	2473.1	2456.5	2461.0	2519.8
32.5°	2967.7	2957.2	2924.0	2889.3	2829.0	2782.2	2734.0	2697.8	2663.1	2658.6	2721.9
35°	3295.0	3290.4	3284.4	3260.3	3237.6	3209.0	3186.4	3148.7	3117.0	3109.5	3287.4
37.5°	3471.4	3481.9	3472.9	3469.9	3469.9	3483.4	3525.7	3567.9	3598.1	3616.2	3715.7
40°	3741.3	3741.3	3730.8	3724.7	3712.7	3730.8	3748.9	3780.5	3794.1	3795.6	3896.6
42.5°	4047.4	4048.9	4038.4	4020.3	4014.3	4030.8	4055.0	4085.1	4103.2	4107.8	4225.4
45°	4388.2	4383.7	4374.7	4368.6	4373.2	4388.2	4416.9	4475.7	4502.8	4524.0	4652.1
47.5°	4757.7	4787.9	4762.2	4766.7	4766.7	4813.5	4878.3	4926.6	4970.3	5011.0	5146.8
50°	5241.8	5246.3	5250.8	5264.4	5273.4	5335.3	5416.7	5474.0	5537.3	5590.1	5811.8
52.5°	5888.7	5879.6	5902.3	5917.3	5968.6	6001.8	6137.5	6209.9	6297.4	6365.2	6689.4
55°	6662.3	6657.8	6690.9	6703.0	6770.9	6852.3	7003.1	7161.4	7310.7	7393.7	7837.0
57.5°	7217.2	7229.3	7286.6	7366.5	7499.2	7672.6	7897.3	8247.2	8530.7	8621.2	9109.7
60°	7339.4	7378.6	7464.5	7624.4	7852.1	8174.8	8616.6	9152.0	9670.7	9844.1	10302.6
62.5°	6997.1	7042.3	7169.0	7360.5	7657.6	8135.6	8773.5	9529.0	10299.6	10685.6	10916.3
63°	6888.5	6944.3	7039.3	7261.0	7562.6	8034.6	8713.1	9527.5	10326.7	10747.4	10928.4
65°	6378.8	6389.3	6531.1	6752.8	7092.1	7582.2	8266.8	9207.8	10094.5	10580.0	10454.9
67.5°	5489.1	5532.8	5651.9	5875.1	6205.4	6715.1	7458.5	8328.6	9108.2	9495.8	8936.3
70°	4435.0	4432.0	4579.8	4759.2	5050.2	5498.1	6149.6	6935.2	7553.5	7835.5	6899.0
72.5°	3168.3	3089.9	3198.4	3397.5	3635.8	3993.1	4508.9	5119.6	5673.0	5917.3	5044.2
75°	1443.1	1422.0	1518.5	1716.1	1957.4	2275.6	2699.3	3227.1	3757.9	4044.4	3213.5
77.5°	485.6	491.6	529.3	600.2	729.9	889.7	1153.6	1491.4	1921.2	2204.7	1508.0
80°	325.7	334.8	346.8	357.4	372.5	396.6	453.9	541.4	674.1	815.8	476.5
82.5°	266.9	277.5	304.6	316.7	325.7	333.3	337.8	343.8	343.8	346.8	301.6
85°	191.5	209.6	245.8	268.4	277.5	283.5	291.0	300.1	286.5	274.5	233.7
87.5°	66.4	90.5	132.7	146.3	156.8	158.3	168.9	187.0	177.9	144.8	70.9
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):**

	50°	55°	60°	65°	70°	75°	80°	85°	90°
0°	1610.5	1610.5	1610.5	1610.5	1610.5	1610.5	1610.5	1610.5	1610.5
2.5°	1618.1	1616.6	1618.1	1619.6	1619.6	1619.6	1621.1	1622.6	1622.6
5°	1648.2	1649.7	1648.2	1649.7	1649.7	1651.2	1651.2	1654.3	1654.3
7.5°	1699.5	1702.5	1701.0	1704.0	1704.0	1707.0	1705.5	1710.1	1710.1
10°	1768.9	1771.9	1774.9	1776.4	1774.9	1777.9	1780.9	1782.4	1780.9
12.5°	1847.3	1848.8	1847.3	1850.3	1850.3	1853.3	1853.3	1857.8	1857.8
15°	1919.7	1918.2	1916.7	1921.2	1924.2	1925.7	1928.7	1933.2	1928.7
17.5°	1984.5	1986.0	1983.0	1987.5	1993.6	1998.1	2001.1	2007.1	2005.6
20°	2049.4	2046.3	2049.4	2056.9	2062.9	2069.0	2075.0	2084.0	2082.5
22.5°	2112.7	2115.7	2123.2	2129.3	2139.8	2148.9	2156.4	2168.5	2173.0
25°	2201.7	2201.7	2213.7	2221.3	2236.3	2248.4	2265.0	2278.6	2286.1
27.5°	2314.8	2314.8	2328.3	2344.9	2367.5	2388.7	2406.7	2424.8	2421.8
30°	2468.6	2476.1	2488.2	2509.3	2539.5	2565.1	2589.2	2607.3	2608.8
32.5°	2670.6	2679.7	2715.9	2770.2	2833.5	2881.8	2918.0	2961.7	2967.7
35°	3129.1	3151.7	3198.4	3242.2	3267.8	3296.5	3314.6	3316.1	3319.1
37.5°	3611.6	3572.4	3536.2	3503.1	3488.0	3485.0	3485.0	3491.0	3494.0
40°	3788.1	3768.5	3751.9	3730.8	3736.8	3735.3	3745.8	3754.9	3760.9
42.5°	4089.7	4074.6	4059.5	4032.4	4047.4	4042.9	4058.0	4071.6	4079.1
45°	4510.4	4463.6	4430.5	4386.7	4401.8	4392.8	4392.8	4409.4	4412.4
47.5°	4974.8	4920.6	4852.7	4798.4	4780.3	4763.7	4778.8	4778.8	4762.2
50°	5531.3	5466.5	5386.5	5299.1	5268.9	5252.3	5258.4	5265.9	5219.1
52.5°	6286.8	6214.4	6101.3	5968.6	5940.0	5926.4	5923.4	5912.8	5900.8
55°	7310.7	7175.0	7036.3	6861.3	6808.6	6793.5	6795.0	6782.9	6811.6
57.5°	8518.6	8319.6	7999.9	7787.2	7660.6	7612.3	7568.6	7550.5	7552.0
60°	9714.5	9308.8	8830.8	8459.8	8194.4	8025.5	7892.8	7818.9	7797.8
62.5°	10485.0	9847.2	9129.4	8527.7	8091.9	7812.9	7603.3	7470.6	7428.3
63°	10545.4	9869.8	9102.2	8456.8	7998.4	7705.8	7485.6	7348.4	7303.2
65°	10414.2	9642.1	8747.8	7978.8	7476.6	7152.4	6914.1	6784.4	6749.7
67.5°	9394.8	8752.4	7841.5	7046.8	6540.1	6211.4	5938.5	5814.8	5775.6
70°	7642.5	7202.1	6455.7	5777.1	5305.1	4988.4	4712.5	4609.9	4608.4
72.5°	5665.5	5094.0	4649.1	4151.5	3739.8	3488.0	3248.2	3133.6	3076.3
75°	3747.3	3135.1	2637.5	2218.2	1808.1	1581.9	1311.9	1195.8	1128.0
77.5°	1888.0	1399.4	1002.8	695.2	539.9	443.3	405.6	386.0	384.5
80°	628.8	472.0	405.6	380.0	372.5	374.0	369.5	361.9	352.9
82.5°	348.3	366.4	369.5	358.9	358.9	352.9	346.8	318.2	303.1
85°	298.6	328.7	331.8	325.7	324.2	315.2	304.6	265.4	242.8
87.5°	187.0	215.6	211.1	188.5	208.1	194.5	184.0	119.1	87.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)