

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: P157278

Luminaire Tested: **VTS-E09-LED-E1-5MQ-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P157278
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-E09-LED-E1-5MQ-8030
Description: VENTUS LED SITE LUMINAIRE
(9) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE MEDIUM
Light Source: (189) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

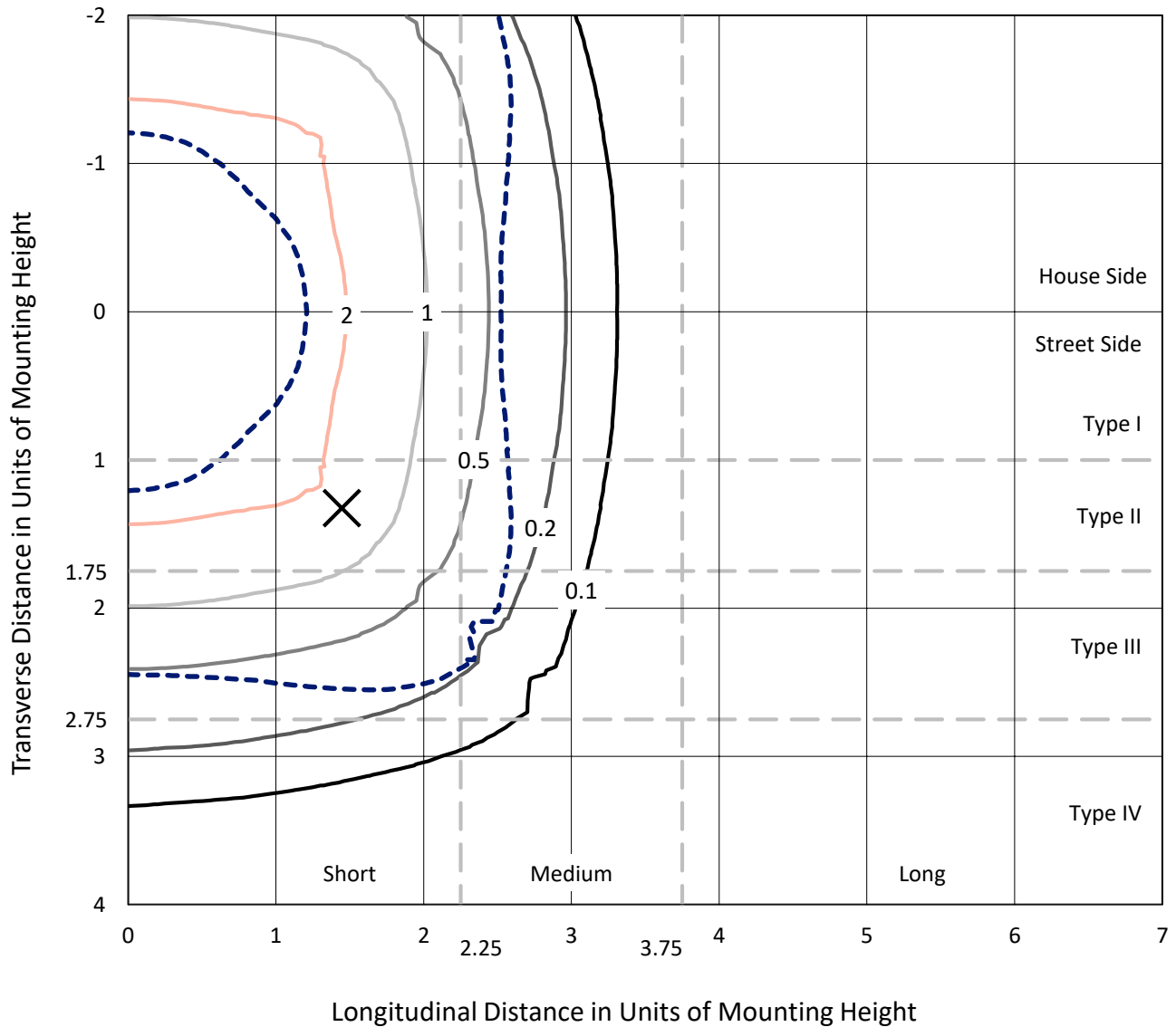
Lumens per Lamp: N/A
Luminaire Lumens: 24298.3 lumens
Efficiency: N/A
Efficacy: 107.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B5 - U0 - G3

Input Watts (W): 225.7
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

REPORT NUMBER: P157278
 CATALOG NUMBER: VTS-E09-LED-E1-5MQ-8030

Iso-Footcandle Lines of Horizontal Illumination

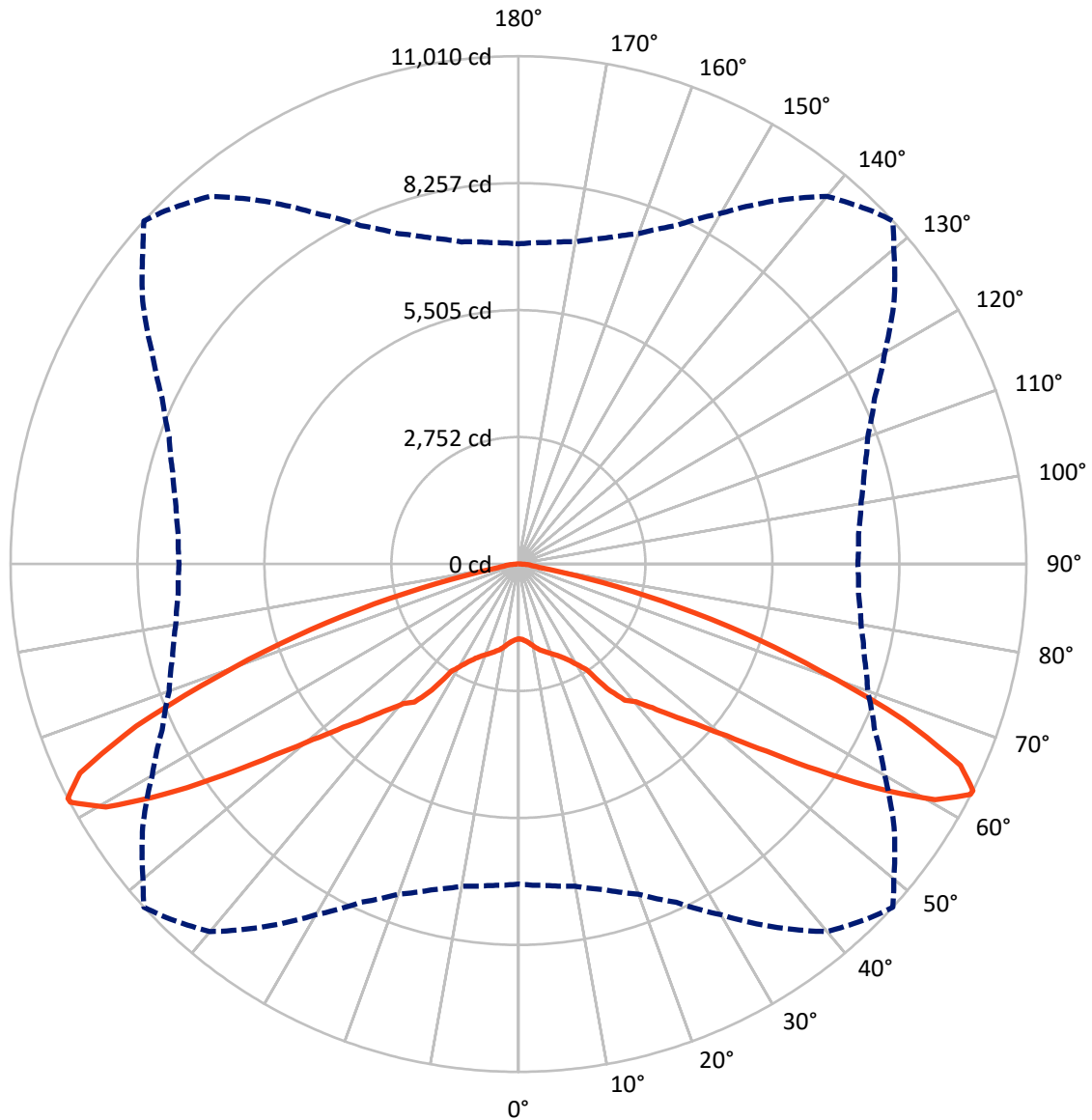
× Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P157278
CATALOG NUMBER: VTS-E09-LED-E1-5MQ-8030

Luminous Intensity Polar Plot



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

REPORT NUMBER: P157278

CATALOG NUMBER: VTS-E09-LED-E1-5MQ-8030

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12149.1	0.0	12149.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12149.1	0.0	12149.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	24298.3	0.0	24298.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	162.9	0.7
10°-20°	553.7	2.3
20°-30°	1059.1	4.4
30°-40°	2026.0	8.3
40°-50°	3505.7	14.4
50°-60°	6296.0	25.9
60°-70°	7656.0	31.5
70°-80°	2765.0	11.4
80°-90°	273.8	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°	24298.3	100.0
0°-180°	24298.3	100.0



REPORT NUMBER: P157278

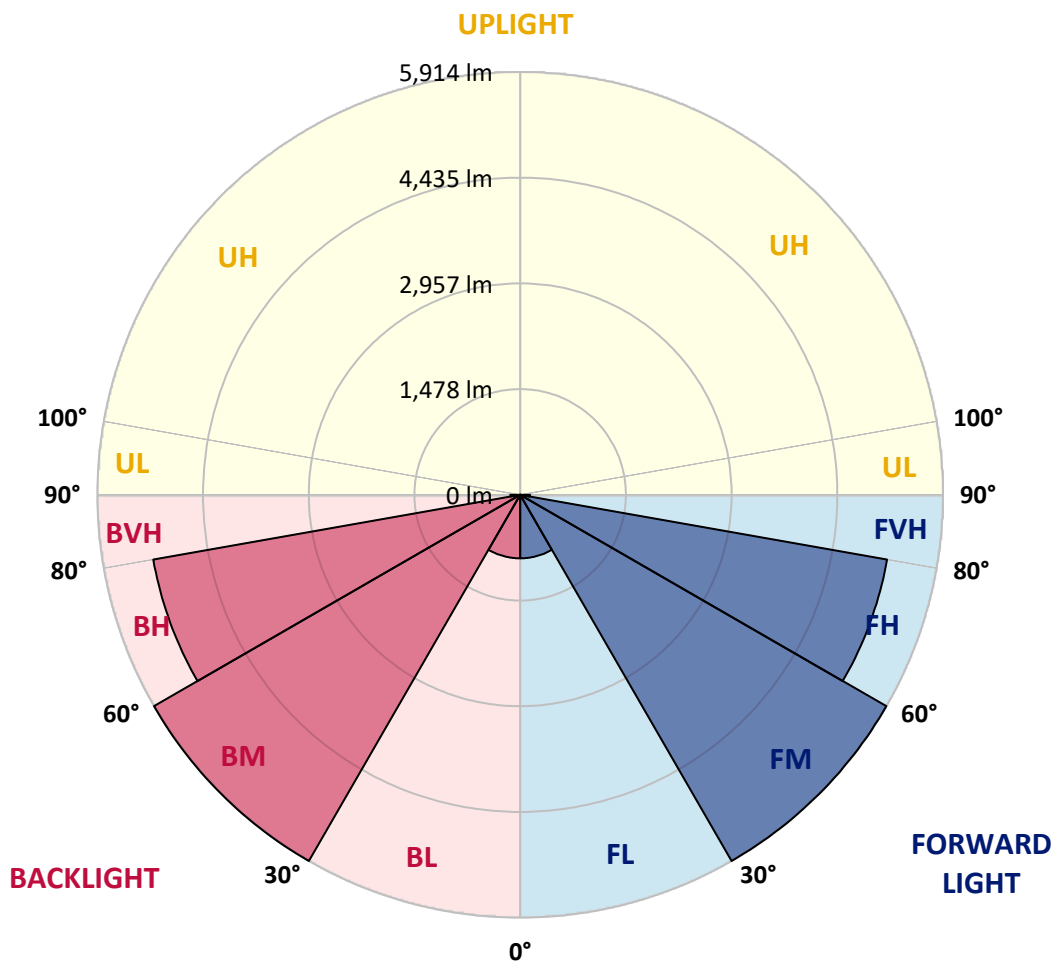
CATALOG NUMBER: VTS-E09-LED-E1-5MQ-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	887.9	3.7			
FM	(30°-60°)	5913.9	24.3			
FH	(60°-80°)	5210.5	21.4			G3/7500
FVH	(80°-90°)	136.9	0.6			G2/225
BL	(0°-30°)	887.9	3.7	B2/1000		
BM	(30°-60°)	5913.9	24.3	B4/8500		
BH	(60°-80°)	5210.5	21.4	B5		G3/7500
BVH	(80°-90°)	136.9	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





REPORT NUMBER: P157278

CATALOG NUMBER: VTS-E09-LED-E1-5MQ-8030

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	47.5°
0°	1622.5	1622.5	1622.5	1622.5	1622.5	1622.5	1622.5	1622.5	1622.5	1622.5	1622.5
2.5°	1633.1	1630.1	1631.6	1633.1	1631.6	1630.1	1630.1	1630.1	1633.1	1630.1	1637.7
5°	1665.0	1662.0	1663.5	1663.5	1663.5	1660.5	1660.5	1660.5	1658.9	1660.5	1677.2
7.5°	1725.8	1721.2	1719.7	1722.8	1719.7	1718.2	1716.7	1716.7	1713.6	1713.6	1734.9
10°	1798.7	1792.6	1795.7	1797.2	1792.6	1789.6	1789.6	1789.6	1785.0	1783.5	1810.9
12.5°	1879.2	1876.2	1876.2	1873.2	1871.6	1868.6	1867.1	1868.6	1862.5	1862.5	1889.9
15°	1956.7	1950.6	1952.2	1947.6	1944.6	1941.5	1940.0	1938.5	1935.4	1935.4	1952.2
17.5°	2028.1	2023.6	2022.0	2017.5	2012.9	2008.4	2005.3	2003.8	1999.2	1999.2	2014.4
20°	2102.6	2098.0	2095.0	2087.4	2079.8	2075.2	2069.1	2066.1	2060.0	2061.5	2078.2
22.5°	2187.6	2180.0	2174.0	2167.9	2154.2	2145.1	2137.5	2131.4	2128.4	2128.4	2151.2
25°	2301.6	2297.0	2287.9	2268.1	2251.4	2237.8	2225.6	2219.5	2213.5	2210.4	2245.4
27.5°	2441.3	2436.8	2424.6	2404.9	2382.1	2359.3	2345.6	2335.0	2327.4	2322.8	2373.0
30°	2626.7	2619.1	2608.4	2576.5	2556.8	2521.8	2506.7	2491.5	2474.8	2479.3	2538.6
32.5°	2989.8	2979.1	2945.7	2910.8	2850.0	2802.9	2754.3	2717.8	2682.9	2678.3	2742.1
35°	3319.4	3314.9	3308.8	3284.5	3261.7	3232.8	3210.0	3172.1	3140.2	3132.6	3311.8
37.5°	3497.2	3507.8	3498.7	3495.6	3495.6	3509.3	3551.9	3594.4	3624.8	3643.0	3743.3
40°	3769.1	3769.1	3758.5	3752.4	3740.2	3758.5	3776.7	3808.6	3822.3	3823.8	3925.6
42.5°	4077.5	4079.0	4068.4	4050.1	4044.1	4060.8	4085.1	4115.5	4133.7	4138.3	4256.8
45°	4420.8	4416.3	4407.2	4401.1	4405.6	4420.8	4449.7	4508.9	4536.3	4557.6	4686.7
47.5°	4793.0	4823.4	4797.6	4802.1	4802.1	4849.2	4914.6	4963.2	5007.2	5048.2	5185.0
50°	5280.7	5285.2	5289.8	5303.5	5312.6	5374.9	5456.9	5514.6	5578.4	5631.6	5854.9
52.5°	5932.4	5923.3	5946.1	5961.3	6012.9	6046.4	6183.1	6256.0	6344.1	6412.5	6739.1
55°	6711.8	6707.2	6740.6	6752.8	6821.1	6903.2	7055.1	7214.6	7365.0	7448.6	7895.2
57.5°	7270.8	7283.0	7340.7	7421.2	7554.9	7729.6	7956.0	8308.4	8594.0	8685.2	9177.4
60°	7393.9	7433.4	7520.0	7681.0	7910.4	8235.5	8680.6	9219.9	9742.5	9917.2	10379.1
62.5°	7049.0	7094.6	7222.2	7415.1	7714.4	8196.0	8838.6	9599.7	10376.0	10764.9	10997.4
63°	6939.6	6995.8	7091.5	7314.9	7618.7	8094.2	8777.8	9598.2	10403.4	10827.2	11009.5
65°	6426.1	6436.8	6579.6	6802.9	7144.7	7638.5	8328.2	9276.1	10169.4	10658.6	10532.5
67.5°	5529.8	5573.9	5693.9	5918.7	6251.4	6764.9	7513.9	8390.5	9175.9	9566.3	9002.7
70°	4467.9	4464.9	4613.8	4794.5	5087.7	5538.9	6195.2	6986.7	7609.6	7893.7	6950.3
72.5°	3191.8	3112.8	3222.2	3422.7	3662.8	4022.8	4542.4	5157.6	5715.2	5961.3	5081.7
75°	1453.9	1432.6	1529.8	1728.8	1971.9	2292.4	2719.3	3251.1	3785.8	4074.5	3237.4
77.5°	489.2	495.3	533.2	604.6	735.3	896.3	1162.2	1502.5	1935.4	2221.0	1519.2
80°	328.1	337.3	349.4	360.0	375.2	399.5	457.3	545.4	679.1	821.9	480.1
82.5°	268.9	279.5	306.9	319.0	328.1	335.7	340.3	346.4	346.4	349.4	303.8
85°	192.9	211.2	247.6	270.4	279.5	285.6	293.2	302.3	288.6	276.5	235.5
87.5°	66.8	91.2	133.7	147.4	158.0	159.5	170.1	188.4	179.3	145.8	71.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P157278

CATALOG NUMBER: VTS-E09-LED-E1-5MQ-8030

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	70°	75°	80°	85°	90°
0°	1622.5	1622.5	1622.5	1622.5	1622.5	1622.5	1622.5	1622.5	1622.5
2.5°	1630.1	1628.6	1630.1	1631.6	1631.6	1631.6	1633.1	1634.6	1634.6
5°	1660.5	1662.0	1660.5	1662.0	1662.0	1663.5	1663.5	1666.5	1666.5
7.5°	1712.1	1715.2	1713.6	1716.7	1716.7	1719.7	1718.2	1722.8	1722.8
10°	1782.0	1785.0	1788.1	1789.6	1788.1	1791.1	1794.2	1795.7	1794.2
12.5°	1861.0	1862.5	1861.0	1864.0	1864.0	1867.1	1867.1	1871.6	1871.6
15°	1933.9	1932.4	1930.9	1935.4	1938.5	1940.0	1943.0	1947.6	1943.0
17.5°	1999.2	2000.8	1997.7	2002.3	2008.4	2012.9	2016.0	2022.0	2020.5
20°	2064.6	2061.5	2064.6	2072.2	2078.2	2084.3	2090.4	2099.5	2098.0
22.5°	2128.4	2131.4	2139.0	2145.1	2155.7	2164.8	2172.4	2184.6	2189.1
25°	2218.0	2218.0	2230.2	2237.8	2252.9	2265.1	2281.8	2295.5	2303.1
27.5°	2331.9	2331.9	2345.6	2362.3	2385.1	2406.4	2424.6	2442.8	2439.8
30°	2486.9	2494.5	2506.7	2527.9	2558.3	2584.1	2608.4	2626.7	2628.2
32.5°	2690.5	2699.6	2736.0	2790.7	2854.5	2903.2	2939.6	2983.7	2989.8
35°	3152.3	3175.1	3222.2	3266.2	3292.1	3320.9	3339.2	3340.7	3343.7
37.5°	3638.4	3598.9	3562.5	3529.1	3513.9	3510.8	3510.8	3516.9	3519.9
40°	3816.2	3796.4	3779.7	3758.5	3764.5	3763.0	3773.7	3782.8	3788.8
42.5°	4120.0	4104.8	4089.6	4062.3	4077.5	4072.9	4088.1	4101.8	4109.4
45°	4543.9	4496.8	4463.4	4419.3	4434.5	4425.4	4425.4	4442.1	4445.1
47.5°	5011.8	4957.1	4888.7	4834.0	4815.8	4799.1	4814.3	4814.3	4797.6
50°	5572.4	5507.0	5426.5	5338.4	5308.0	5291.3	5297.4	5305.0	5257.9
52.5°	6333.5	6260.6	6146.6	6012.9	5984.1	5970.4	5967.4	5956.7	5944.6
55°	7365.0	7228.3	7088.5	6912.3	6859.1	6843.9	6845.4	6833.3	6862.2
57.5°	8581.9	8381.3	8059.3	7845.1	7717.5	7668.8	7624.8	7606.6	7608.1
60°	9786.6	9377.9	8896.3	8522.6	8255.2	8085.1	7951.4	7877.0	7855.7
62.5°	10562.9	9920.3	9197.1	8591.0	8151.9	7870.9	7659.7	7526.0	7483.5
63°	10623.7	9943.1	9169.8	8519.6	8057.8	7763.0	7541.2	7403.0	7357.4
65°	10491.5	9713.7	8812.8	8038.0	7532.1	7205.5	6965.5	6834.8	6799.9
67.5°	9464.5	8817.3	7899.8	7099.1	6588.7	6257.5	5982.5	5858.0	5818.5
70°	7699.2	7255.6	6503.6	5820.0	5344.5	5025.5	4747.4	4644.1	4642.6
72.5°	5707.6	5131.8	4683.6	4182.3	3767.6	3513.9	3272.3	3156.9	3099.1
75°	3775.2	3158.4	2657.1	2234.7	1821.5	1593.6	1321.7	1204.7	1136.3
77.5°	1902.0	1409.8	1010.3	700.3	543.9	446.6	408.7	388.9	387.4
80°	633.5	475.5	408.7	382.8	375.2	376.8	372.2	364.6	355.5
82.5°	350.9	369.2	372.2	361.6	361.6	355.5	349.4	320.5	305.4
85°	300.8	331.2	334.2	328.1	326.6	317.5	306.9	267.4	244.6
87.5°	188.4	217.2	212.7	189.9	209.6	196.0	185.3	120.0	88.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)