

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: P157343

Luminaire Tested: **VST-F04-LED-E-U-5MQ-8030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P157343  
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-F04-LED-E-U-5MQ-8030  
Description: VENTUS LED SITE/ROADWAY LUMINAIRE  
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE MEDIUM  
Light Source: (28) 3000K CCT, 80 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8915 lumens  
Efficiency: N/A  
Efficacy: 87.2 lumens/watt  
Luminous Opening: Rectangular (W 0.67' x L: 1' x H: 0')  
IES Classification: Type V - Short - Full Cutoff  
BUG Rating: B3 - U0 - G2

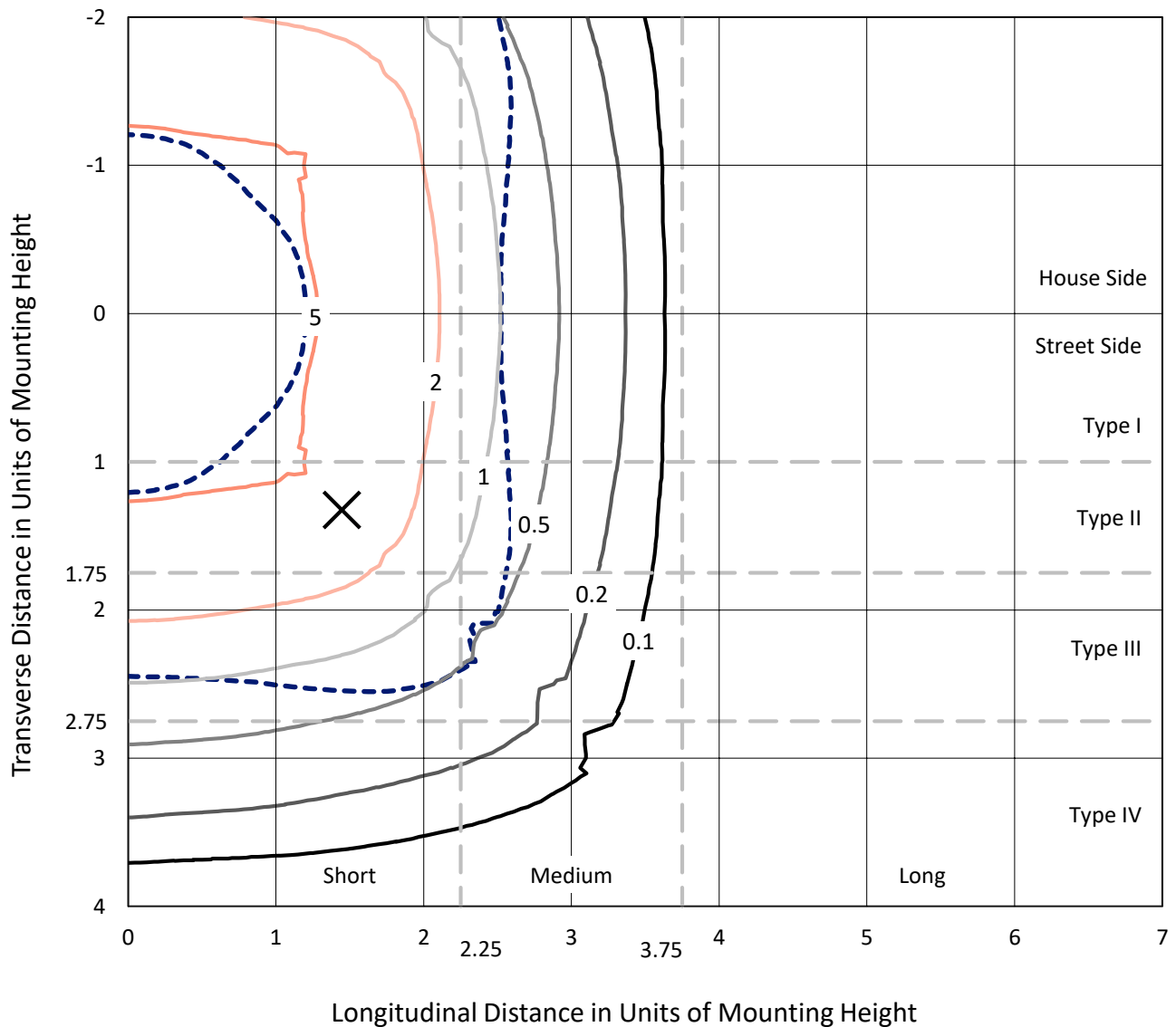
Input Watts (W): 102.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

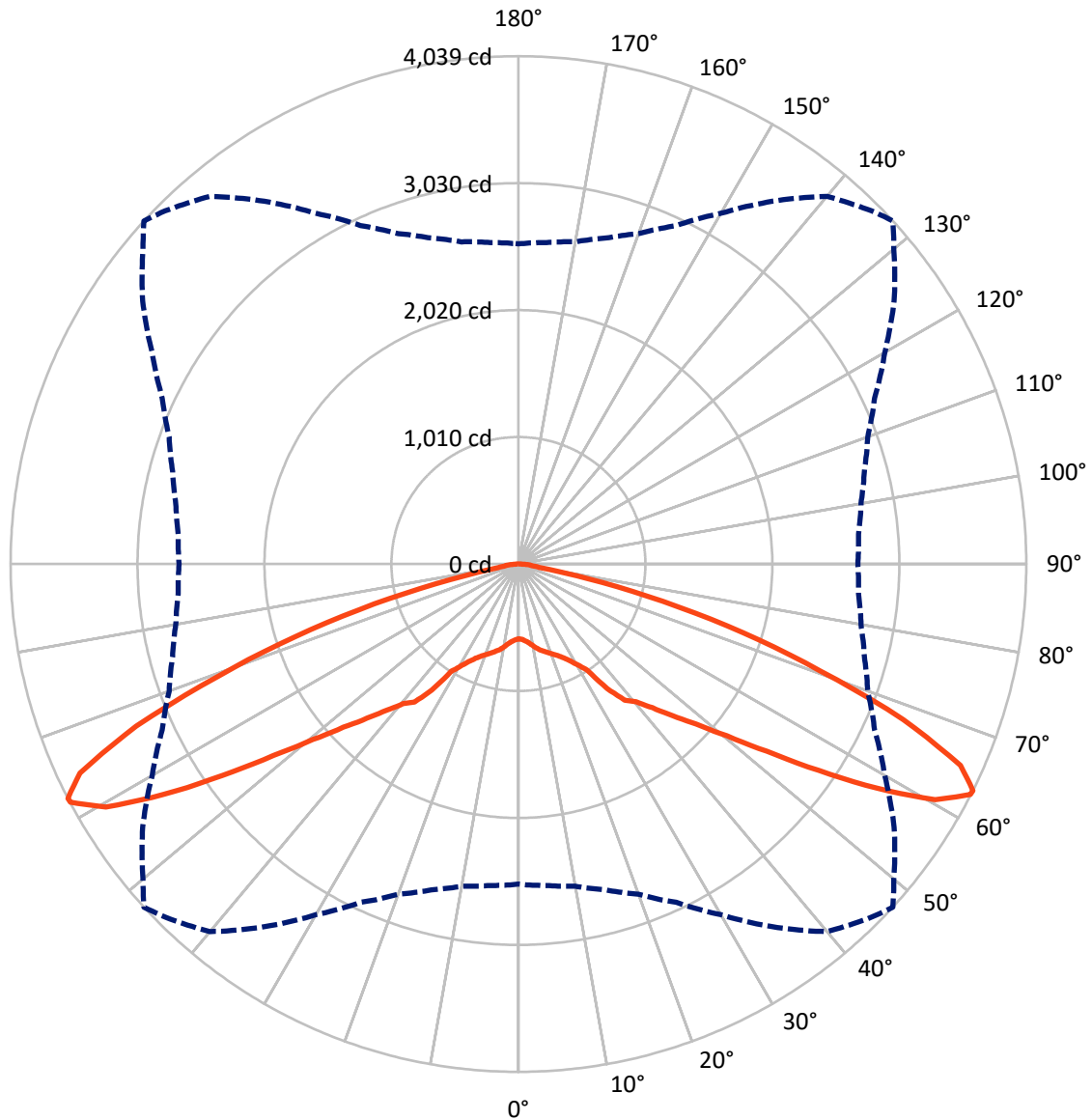
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.5 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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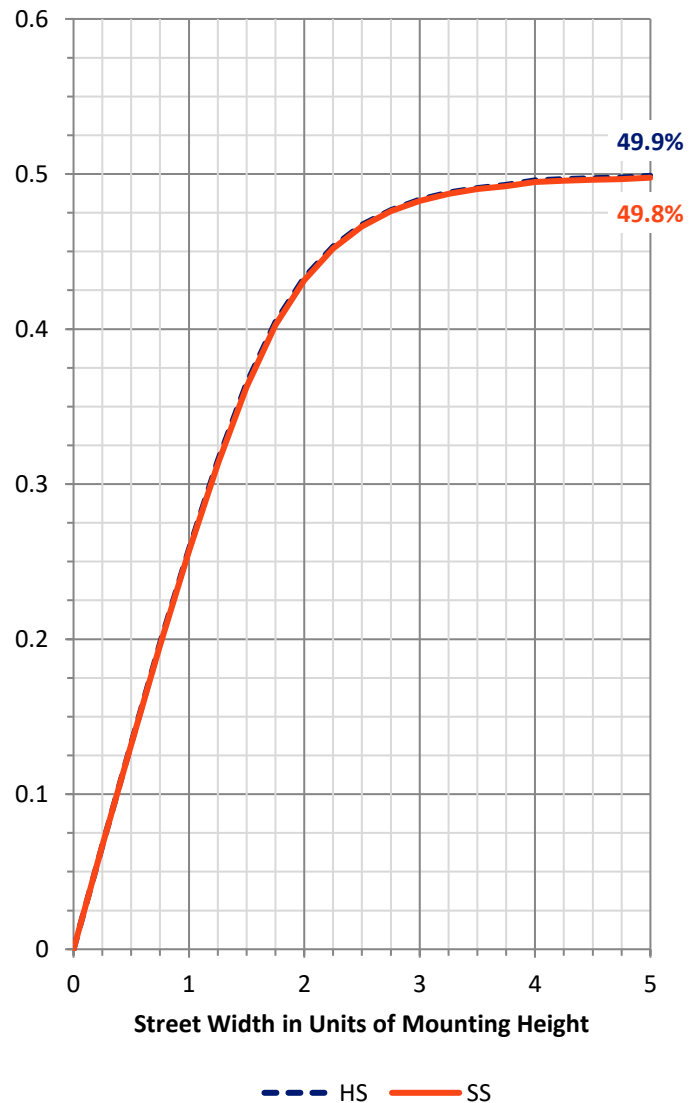
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4457.5	0.0	4457.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	4457.5	0.0	4457.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	8915.0	0.0	8915.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	59.8	0.7
10°-20°	203.2	2.3
20°-30°	388.6	4.4
30°-40°	743.3	8.3
40°-50°	1286.2	14.4
50°-60°	2310.0	25.9
60°-70°	2809.0	31.5
70°-80°	1014.5	11.4
80°-90°	100.5	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°	8915.0	100.0
0°-180°	8915.0	100.0



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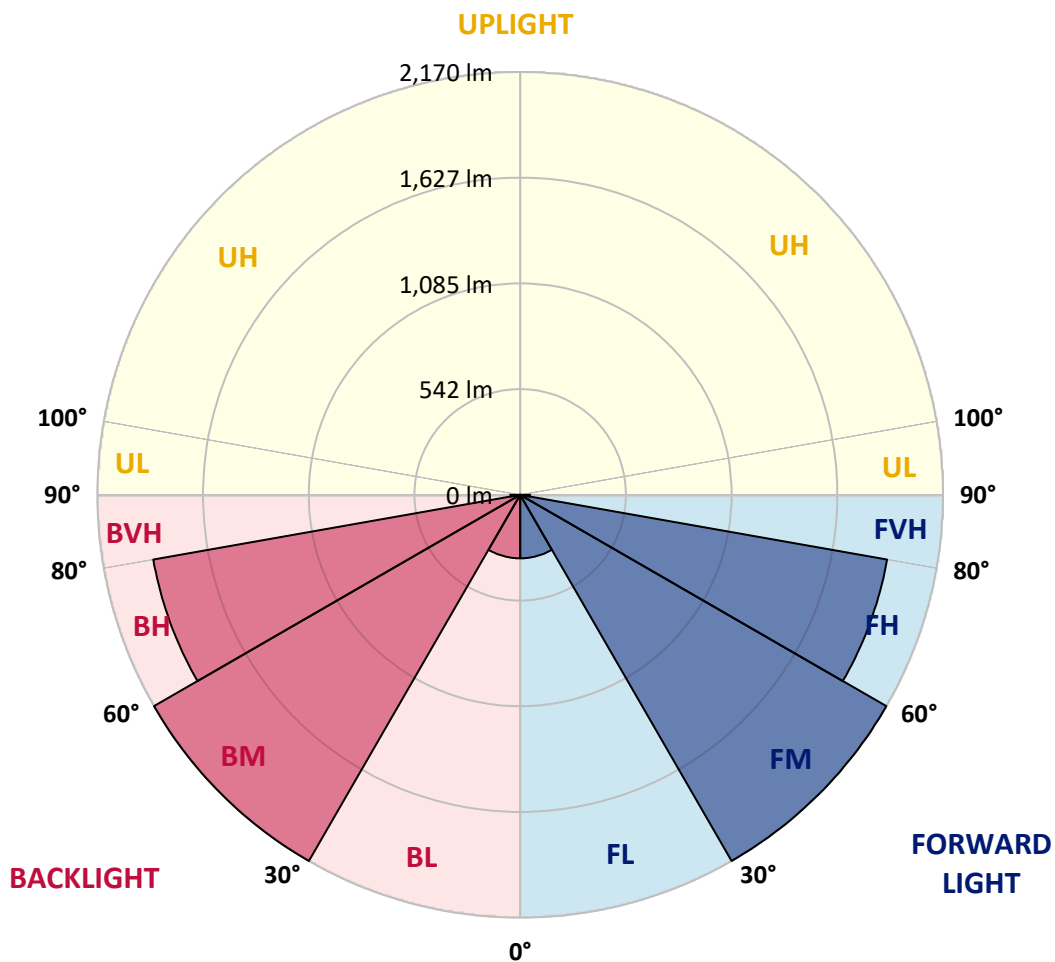
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	325.8	3.7			
FM (30°-60°)	2169.8	24.3			
FH (60°-80°)	1911.7	21.4			G2/5000
FVH (80°-90°)	50.2	0.6			G1/100
BL (0°-30°)	325.8	3.7	B1/500		
BM (30°-60°)	2169.8	24.3	B2/2500		
BH (60°-80°)	1911.7	21.4	B3/2500		G2/5000
BVH (80°-90°)	50.2	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-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°	595.3	595.3	595.3	595.3	595.3	595.3	595.3	595.3	595.3	595.3	595.3
2.5°	599.2	598.1	598.6	599.2	598.6	598.1	598.1	598.1	599.2	598.1	600.9
5°	610.9	609.8	610.3	610.3	610.3	609.2	609.2	609.2	608.7	609.2	615.4
7.5°	633.2	631.5	631.0	632.1	631.0	630.4	629.8	629.8	628.7	628.7	636.5
10°	659.9	657.7	658.8	659.4	657.7	656.6	656.6	656.6	654.9	654.4	664.4
12.5°	689.5	688.4	688.4	687.3	686.7	685.6	685.0	685.6	683.4	683.4	693.4
15°	717.9	715.7	716.2	714.6	713.5	712.3	711.8	711.2	710.1	710.1	716.2
17.5°	744.1	742.4	741.9	740.2	738.5	736.9	735.8	735.2	733.5	733.5	739.1
20°	771.4	769.8	768.6	765.9	763.1	761.4	759.2	758.0	755.8	756.4	762.5
22.5°	802.6	799.9	797.6	795.4	790.4	787.0	784.2	782.0	780.9	780.9	789.3
25°	844.4	842.8	839.4	832.2	826.0	821.0	816.6	814.3	812.1	811.0	823.8
27.5°	895.7	894.1	889.6	882.3	874.0	865.6	860.6	856.7	853.9	852.2	870.6
30°	963.7	960.9	957.0	945.3	938.1	925.3	919.7	914.1	908.0	909.7	931.4
32.5°	1096.9	1093.0	1080.8	1068.0	1045.7	1028.4	1010.5	997.2	984.3	982.7	1006.1
35°	1217.9	1216.2	1214.0	1205.1	1196.7	1186.1	1177.8	1163.8	1152.1	1149.3	1215.1
37.5°	1283.1	1287.0	1283.7	1282.6	1282.6	1287.6	1303.2	1318.8	1329.9	1336.6	1373.4
40°	1382.9	1382.9	1379.0	1376.7	1372.3	1379.0	1385.7	1397.4	1402.4	1402.9	1440.3
42.5°	1496.0	1496.6	1492.7	1486.0	1483.8	1489.9	1498.8	1510.0	1516.7	1518.3	1561.8
45°	1622.0	1620.3	1617.0	1614.8	1616.4	1622.0	1632.6	1654.3	1664.4	1672.2	1719.5
47.5°	1758.6	1769.7	1760.2	1761.9	1761.9	1779.2	1803.2	1821.0	1837.2	1852.2	1902.4
50°	1937.5	1939.2	1940.8	1945.8	1949.2	1972.0	2002.1	2023.3	2046.7	2066.2	2148.2
52.5°	2176.6	2173.3	2181.6	2187.2	2206.1	2218.4	2268.6	2295.3	2327.7	2352.7	2472.6
55°	2462.5	2460.9	2473.1	2477.6	2502.7	2532.8	2588.5	2647.0	2702.2	2732.9	2896.7
57.5°	2667.7	2672.1	2693.3	2722.8	2771.9	2836.0	2919.0	3048.4	3153.1	3186.6	3367.2
60°	2712.8	2727.3	2759.1	2818.2	2902.3	3021.6	3184.9	3382.8	3574.5	3638.6	3808.1
62.5°	2586.3	2603.0	2649.8	2720.6	2830.4	3007.1	3242.9	3522.1	3807.0	3949.7	4034.9
63°	2546.2	2566.8	2601.9	2683.8	2795.3	2969.8	3220.6	3521.6	3817.0	3972.5	4039.4
65°	2357.8	2361.7	2414.0	2496.0	2621.4	2802.5	3055.6	3403.4	3731.2	3910.6	3864.4
67.5°	2028.9	2045.1	2089.1	2171.6	2293.7	2482.1	2756.8	3078.5	3366.6	3509.9	3303.1
70°	1639.3	1638.2	1692.8	1759.1	1866.7	2032.2	2273.0	2563.4	2792.0	2896.2	2550.1
72.5°	1171.1	1142.1	1182.2	1255.8	1343.9	1476.0	1666.6	1892.3	2096.9	2187.2	1864.5
75°	533.4	525.6	561.3	634.3	723.5	841.1	997.7	1192.8	1389.0	1494.9	1187.8
77.5°	179.5	181.7	195.6	221.8	269.8	328.9	426.4	551.3	710.1	814.9	557.4
80°	120.4	123.7	128.2	132.1	137.7	146.6	167.8	200.1	249.2	301.5	176.1
82.5°	98.7	102.6	112.6	117.1	120.4	123.2	124.9	127.1	127.1	128.2	111.5
85°	70.8	77.5	90.9	99.2	102.6	104.8	107.6	110.9	105.9	101.4	86.4
87.5°	24.5	33.4	49.1	54.1	58.0	58.5	62.4	69.1	65.8	53.5	26.2
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°	595.3	595.3	595.3	595.3	595.3	595.3	595.3	595.3	595.3
2.5°	598.1	597.5	598.1	598.6	598.6	598.6	599.2	599.7	599.7
5°	609.2	609.8	609.2	609.8	609.8	610.3	610.3	611.5	611.5
7.5°	628.2	629.3	628.7	629.8	629.8	631.0	630.4	632.1	632.1
10°	653.8	654.9	656.0	656.6	656.0	657.2	658.3	658.8	658.3
12.5°	682.8	683.4	682.8	683.9	683.9	685.0	685.0	686.7	686.7
15°	709.6	709.0	708.4	710.1	711.2	711.8	712.9	714.6	712.9
17.5°	733.5	734.1	733.0	734.6	736.9	738.5	739.7	741.9	741.3
20°	757.5	756.4	757.5	760.3	762.5	764.7	767.0	770.3	769.8
22.5°	780.9	782.0	784.8	787.0	790.9	794.3	797.1	801.5	803.2
25°	813.8	813.8	818.2	821.0	826.6	831.1	837.2	842.2	845.0
27.5°	855.6	855.6	860.6	866.7	875.1	882.9	889.6	896.3	895.2
30°	912.4	915.2	919.7	927.5	938.6	948.1	957.0	963.7	964.3
32.5°	987.1	990.5	1003.9	1023.9	1047.3	1065.2	1078.5	1094.7	1096.9
35°	1156.6	1164.9	1182.2	1198.4	1207.9	1218.5	1225.1	1225.7	1226.8
37.5°	1334.9	1320.5	1307.1	1294.8	1289.2	1288.1	1288.1	1290.4	1291.5
40°	1400.2	1392.9	1386.8	1379.0	1381.2	1380.7	1384.6	1387.9	1390.1
42.5°	1511.6	1506.1	1500.5	1490.5	1496.0	1494.4	1499.9	1504.9	1507.7
45°	1667.1	1649.9	1637.6	1621.4	1627.0	1623.7	1623.7	1629.8	1630.9
47.5°	1838.8	1818.8	1793.7	1773.6	1766.9	1760.8	1766.4	1766.4	1760.2
50°	2044.5	2020.5	1991.0	1958.7	1947.5	1941.4	1943.6	1946.4	1929.1
52.5°	2323.8	2297.0	2255.2	2206.1	2195.6	2190.5	2189.4	2185.5	2181.1
55°	2702.2	2652.1	2600.8	2536.1	2516.6	2511.0	2511.6	2507.1	2517.7
57.5°	3148.7	3075.1	2956.9	2878.4	2831.5	2813.7	2797.5	2790.8	2791.4
60°	3590.7	3440.8	3264.1	3126.9	3028.8	2966.4	2917.4	2890.1	2882.3
62.5°	3875.5	3639.7	3374.4	3152.0	2990.9	2887.8	2810.4	2761.3	2745.7
63°	3897.8	3648.1	3364.4	3125.8	2956.4	2848.3	2766.9	2716.2	2699.4
65°	3849.3	3563.9	3233.4	2949.1	2763.5	2643.7	2555.6	2507.7	2494.9
67.5°	3472.5	3235.1	2898.4	2604.7	2417.4	2295.9	2195.0	2149.3	2134.8
70°	2824.8	2662.1	2386.2	2135.4	1960.9	1843.8	1741.8	1703.9	1703.4
72.5°	2094.1	1882.9	1718.4	1534.5	1382.3	1289.2	1200.6	1158.3	1137.1
75°	1385.1	1158.8	974.9	819.9	668.3	584.7	484.9	442.0	416.9
77.5°	697.9	517.3	370.7	257.0	199.5	163.9	149.9	142.7	142.1
80°	232.4	174.5	149.9	140.5	137.7	138.2	136.6	133.8	130.4
82.5°	128.8	135.4	136.6	132.7	132.7	130.4	128.2	117.6	112.0
85°	110.4	121.5	122.6	120.4	119.8	116.5	112.6	98.1	89.7
87.5°	69.1	79.7	78.0	69.7	76.9	71.9	68.0	44.0	32.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)