

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: P157328

Luminaire Tested: **VST-E03-LED-E-U-5MQ-8030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P157328  
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-E03-LED-E-U-5MQ-8030  
Description: VENTUS LED SITE/ROADWAY LUMINAIRE  
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE MEDIUM  
Light Source: (63) 3000K CCT, 80 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8099.4 lumens  
Efficiency: N/A  
Efficacy: 107.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type V - Short - Full Cutoff  
BUG Rating: B3 - U0 - G1

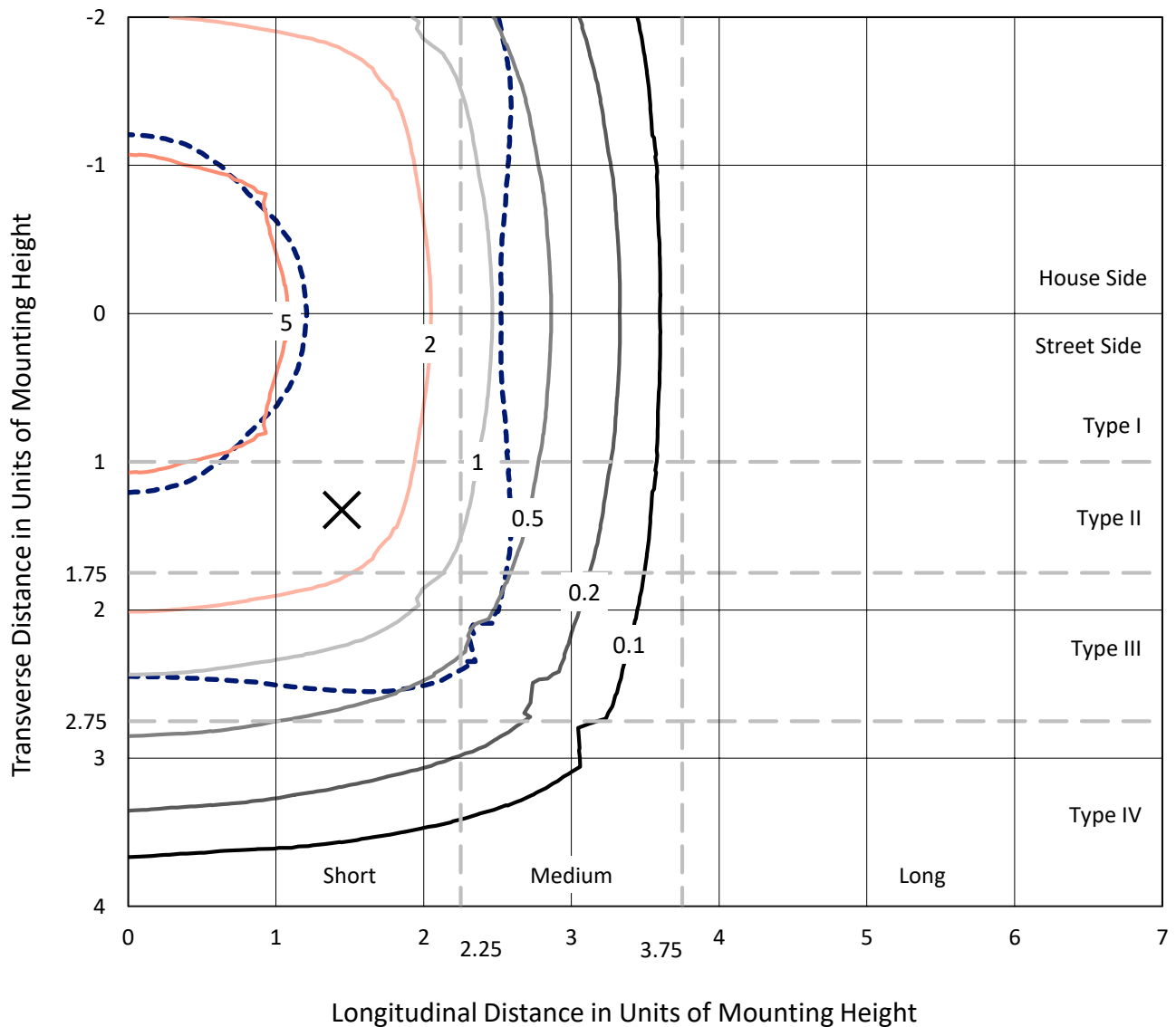
Input Watts (W): 75.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

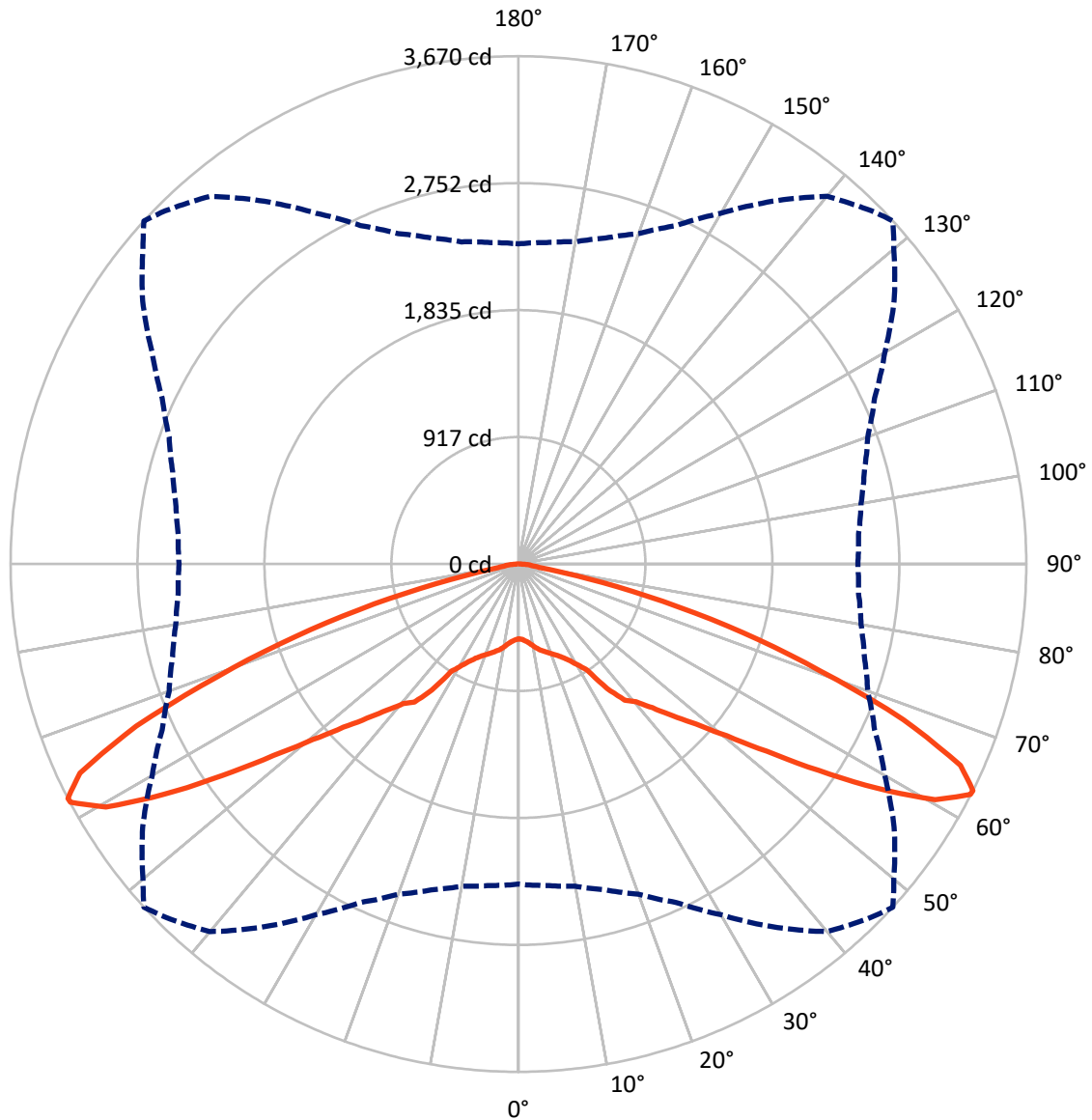
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.9 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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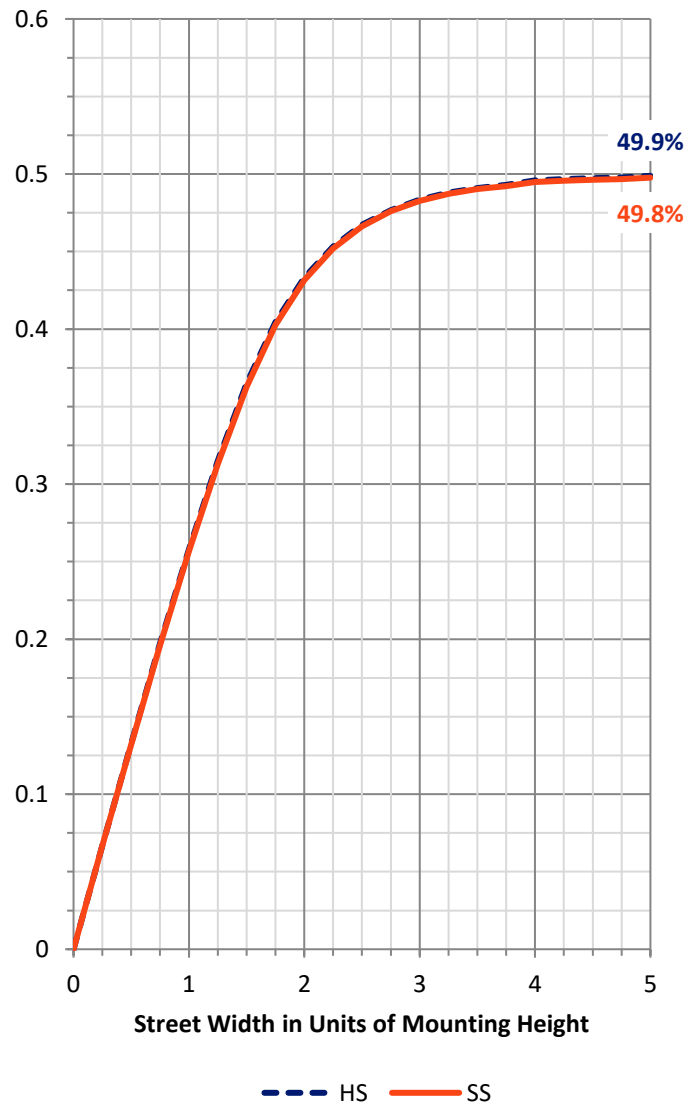
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4049.7	0.0	4049.7
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	4049.7	0.0	4049.7
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	8099.4	0.0	8099.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	54.3	0.7
10°-20°	184.6	2.3
20°-30°	353.0	4.4
30°-40°	675.3	8.3
40°-50°	1168.6	14.4
50°-60°	2098.7	25.9
60°-70°	2552.0	31.5
70°-80°	921.7	11.4
80°-90°	91.3	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°	8099.4	100.0
0°-180°	8099.4	100.0

**Coefficient of Utilization**



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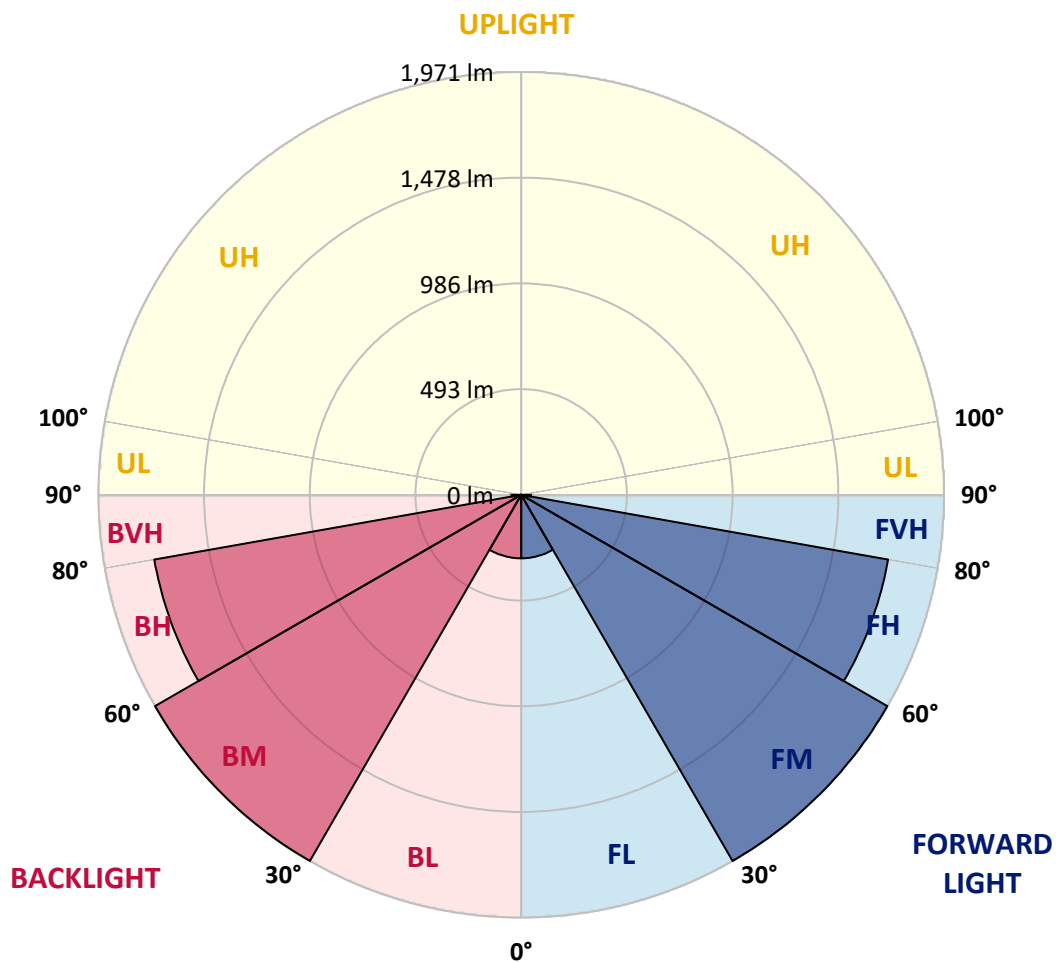
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	296.0	3.7			
FM (30°-60°)	1971.3	24.3			
FH (60°-80°)	1736.8	21.4			G1/1800
FVH (80°-90°)	45.6	0.6			G1/100
BL (0°-30°)	296.0	3.7	B1/500		
BM (30°-60°)	1971.3	24.3	B2/2500		
BH (60°-80°)	1736.8	21.4	B3/2500		G1/1800
BVH (80°-90°)	45.6	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-G1**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	47.5°
0°	540.8	540.8	540.8	540.8	540.8	540.8	540.8	540.8	540.8	540.8	540.8
2.5°	544.4	543.4	543.8	544.4	543.8	543.4	543.4	543.4	544.4	543.4	545.9
5°	555.0	554.0	554.5	554.5	554.5	553.5	553.5	553.5	553.0	553.5	559.1
7.5°	575.3	573.7	573.2	574.3	573.2	572.8	572.2	572.2	571.2	571.2	578.3
10°	599.6	597.5	598.6	599.0	597.5	596.5	596.5	596.5	595.0	594.5	603.6
12.5°	626.4	625.4	625.4	624.4	623.9	622.9	622.4	622.9	620.8	620.8	629.9
15°	652.3	650.2	650.7	649.2	648.2	647.2	646.7	646.1	645.1	645.1	650.7
17.5°	676.0	674.5	674.0	672.5	671.0	669.5	668.5	667.9	666.4	666.4	671.5
20°	700.9	699.4	698.3	695.8	693.2	691.7	689.7	688.7	686.7	687.2	692.8
22.5°	729.2	726.7	724.7	722.6	718.1	715.0	712.5	710.5	709.4	709.4	717.1
25°	767.2	765.7	762.7	756.1	750.5	745.9	741.8	739.9	737.8	736.8	748.4
27.5°	813.8	812.3	808.2	801.6	794.0	786.4	781.9	778.3	775.8	774.3	791.0
30°	875.6	873.0	869.5	858.8	852.2	840.6	835.6	830.5	824.9	826.4	846.2
32.5°	996.6	993.1	981.9	970.3	950.0	934.3	918.1	905.9	894.3	892.8	914.0
35°	1106.5	1105.0	1102.9	1094.8	1087.2	1077.6	1070.0	1057.4	1046.7	1044.2	1103.9
37.5°	1165.7	1169.3	1166.2	1165.2	1165.2	1169.8	1184.0	1198.1	1208.3	1214.3	1247.8
40°	1256.3	1256.3	1252.8	1250.8	1246.7	1252.8	1258.9	1269.5	1274.1	1274.6	1308.5
42.5°	1359.2	1359.7	1356.1	1350.1	1348.0	1353.6	1361.7	1371.8	1377.9	1379.4	1418.9
45°	1473.6	1472.1	1469.0	1467.0	1468.6	1473.6	1483.2	1503.0	1512.1	1519.2	1562.2
47.5°	1597.7	1607.8	1599.2	1600.7	1600.7	1616.4	1638.2	1654.4	1669.1	1682.8	1728.3
50°	1760.2	1761.7	1763.3	1767.8	1770.8	1791.6	1819.0	1838.2	1859.5	1877.2	1951.6
52.5°	1977.5	1974.4	1982.0	1987.1	2004.3	2015.5	2061.0	2085.4	2114.7	2137.5	2246.3
55°	2237.3	2235.7	2246.9	2250.9	2273.7	2301.1	2351.7	2404.9	2455.0	2482.9	2631.7
57.5°	2423.6	2427.7	2446.9	2473.7	2518.3	2576.5	2652.0	2769.5	2864.7	2895.1	3059.1
60°	2464.6	2477.8	2506.7	2560.3	2636.8	2745.2	2893.6	3073.3	3247.5	3305.8	3459.7
62.5°	2349.7	2364.8	2407.4	2471.7	2571.5	2732.0	2946.2	3199.9	3458.7	3588.3	3665.8
63°	2313.2	2332.0	2363.8	2438.3	2539.6	2698.1	2926.0	3199.4	3467.8	3609.1	3669.8
65°	2142.1	2145.6	2193.2	2267.6	2381.6	2546.2	2776.1	3092.0	3389.8	3552.8	3510.8
67.5°	1843.3	1858.0	1898.0	1972.9	2083.8	2255.0	2504.6	2796.8	3058.6	3188.8	3000.9
70°	1489.3	1488.3	1537.9	1598.2	1695.9	1846.3	2065.1	2328.9	2536.6	2631.2	2316.8
72.5°	1063.9	1037.6	1074.1	1140.9	1220.9	1340.9	1514.1	1719.2	1905.1	1987.1	1693.9
75°	484.6	477.5	509.9	576.3	657.3	764.2	906.4	1083.7	1261.9	1358.2	1079.1
77.5°	163.1	165.1	177.7	201.5	245.1	298.8	387.4	500.8	645.1	740.3	506.4
80°	109.4	112.4	116.5	120.0	125.1	133.2	152.4	181.8	226.4	274.0	160.0
82.5°	89.6	93.2	102.3	106.3	109.4	111.9	113.5	115.4	115.4	116.5	101.3
85°	64.3	70.4	82.6	90.1	93.2	95.2	97.7	100.8	96.2	92.2	78.5
87.5°	22.3	30.4	44.6	49.1	52.7	53.2	56.7	62.8	59.8	48.6	23.8
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°	540.8	540.8	540.8	540.8	540.8	540.8	540.8	540.8	540.8
2.5°	543.4	542.9	543.4	543.8	543.8	543.8	544.4	544.9	544.9
5°	553.5	554.0	553.5	554.0	554.0	554.5	554.5	555.5	555.5
7.5°	570.7	571.7	571.2	572.2	572.2	573.2	572.8	574.3	574.3
10°	594.0	595.0	596.0	596.5	596.0	597.1	598.1	598.6	598.1
12.5°	620.3	620.8	620.3	621.4	621.4	622.4	622.4	623.9	623.9
15°	644.6	644.2	643.6	645.1	646.1	646.7	647.7	649.2	647.7
17.5°	666.4	666.9	665.9	667.4	669.5	671.0	672.0	674.0	673.5
20°	688.2	687.2	688.2	690.7	692.8	694.8	696.8	699.8	699.4
22.5°	709.4	710.5	713.0	715.0	718.6	721.6	724.1	728.2	729.7
25°	739.3	739.3	743.4	745.9	751.0	755.0	760.6	765.2	767.7
27.5°	777.3	777.3	781.9	787.4	795.1	802.1	808.2	814.3	813.2
30°	829.0	831.5	835.6	842.6	852.8	861.4	869.5	875.6	876.1
32.5°	896.8	899.9	912.0	930.2	951.5	967.7	979.9	994.6	996.6
35°	1050.8	1058.3	1074.1	1088.8	1097.3	1107.0	1113.1	1113.5	1114.6
37.5°	1212.8	1199.6	1187.5	1176.4	1171.3	1170.3	1170.3	1172.3	1173.3
40°	1272.1	1265.5	1259.9	1252.8	1254.8	1254.4	1257.9	1260.9	1262.9
42.5°	1373.3	1368.3	1363.2	1354.1	1359.2	1357.6	1362.7	1367.3	1369.8
45°	1514.6	1498.9	1487.8	1473.1	1478.2	1475.1	1475.1	1480.7	1481.7
47.5°	1670.6	1652.3	1629.6	1611.4	1605.3	1599.7	1604.8	1604.8	1599.2
50°	1857.5	1835.7	1808.8	1779.5	1769.3	1763.8	1765.8	1768.3	1752.7
52.5°	2111.2	2086.9	2048.9	2004.3	1994.7	1990.1	1989.1	1985.6	1981.5
55°	2455.0	2409.4	2362.9	2304.1	2286.4	2281.3	2281.8	2277.8	2287.4
57.5°	2860.6	2793.8	2686.4	2615.0	2572.5	2556.3	2541.6	2535.5	2536.0
60°	3262.2	3126.0	2965.4	2840.9	2751.7	2695.0	2650.4	2625.7	2618.6
62.5°	3521.0	3306.8	3065.7	2863.7	2717.3	2623.6	2553.2	2508.7	2494.5
63°	3541.2	3314.3	3056.6	2839.9	2685.9	2587.7	2513.8	2467.7	2452.4
65°	3497.2	3237.9	2937.6	2679.4	2510.7	2401.8	2321.8	2278.3	2266.6
67.5°	3154.9	2939.1	2633.3	2366.4	2196.2	2085.8	1994.2	1952.6	1939.5
70°	2566.4	2418.5	2167.9	1940.0	1781.5	1675.1	1582.5	1548.1	1547.5
72.5°	1902.5	1710.6	1561.2	1394.1	1255.9	1171.3	1090.8	1052.3	1033.0
75°	1258.4	1052.8	885.7	744.9	607.1	531.2	440.6	401.6	378.8
77.5°	634.0	469.9	336.8	233.5	181.3	148.9	136.2	129.7	129.1
80°	211.1	158.5	136.2	127.6	125.1	125.6	124.1	121.6	118.5
82.5°	117.0	123.1	124.1	120.5	120.5	118.5	116.5	106.9	101.8
85°	100.3	110.4	111.4	109.4	108.9	105.8	102.3	89.1	81.5
87.5°	62.8	72.4	70.9	63.3	69.9	65.3	61.8	40.0	29.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)