

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: P157329

Luminaire Tested: **VST-E03-LED-E-U-5MQ-7030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P157329  
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-7030  
Description: VENTUS LED SITE/ROADWAY LUMINAIRE  
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE MEDIUM  
Light Source: (63) 3000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8765 lumens  
Efficiency: N/A  
Efficacy: 116.6 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 - G2

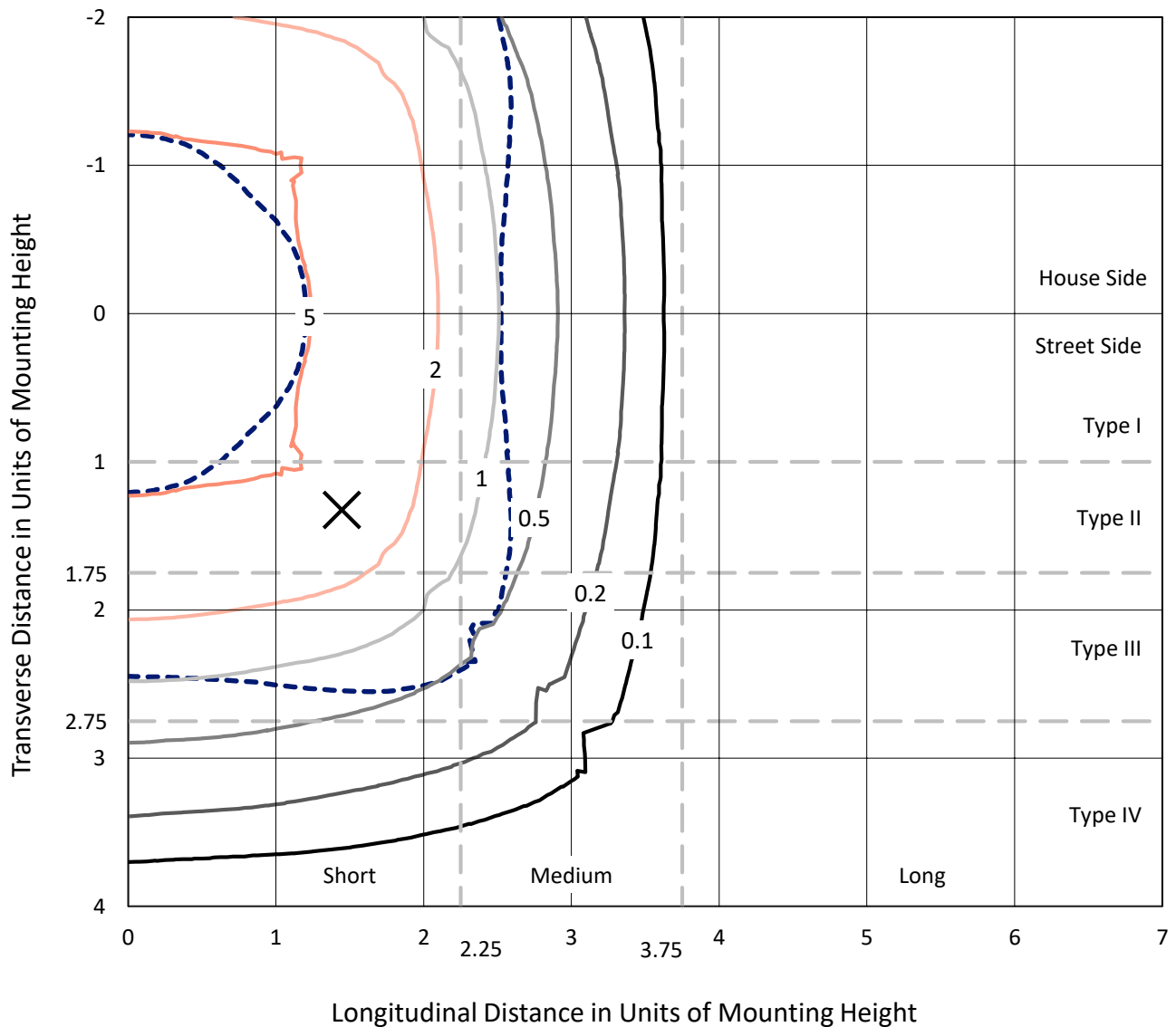
Input Watts (W): 75.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



REPORT NUMBER: P157329  
 CATALOG NUMBER: VST-E03-LED-E-U-5MQ-7030

### Iso-Footcandle Lines of Horizontal Illumination

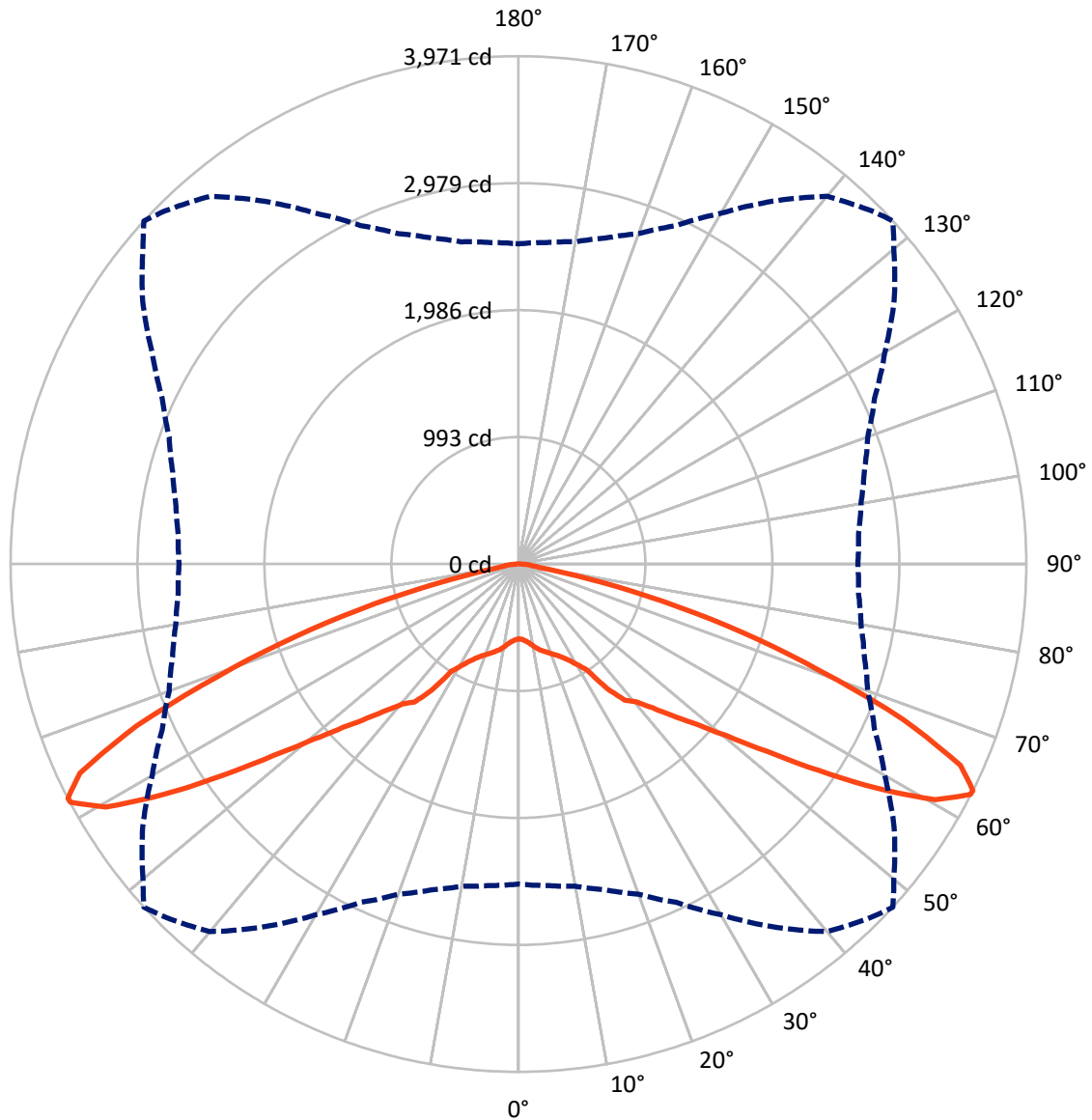
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.4 fc  
 Type V - Short - Full Cutoff

REPORT NUMBER: P157329  
CATALOG NUMBER: VST-E03-LED-E-U-5MQ-7030

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P157329

CATALOG NUMBER: VST-E03-LED-E-U-5MQ-7030

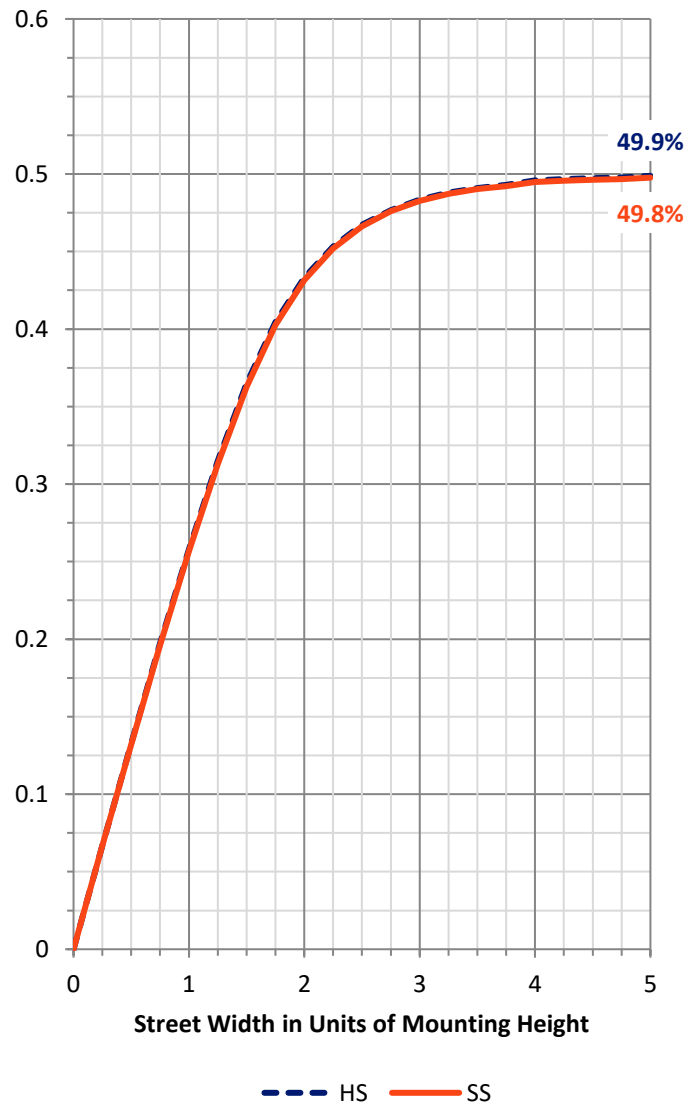
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4382.5	0.0	4382.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	4382.5	0.0	4382.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	8765.0	0.0	8765.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	58.8	0.7
10°-20°	199.7	2.3
20°-30°	382.1	4.4
30°-40°	730.8	8.3
40°-50°	1264.6	14.4
50°-60°	2271.1	25.9
60°-70°	2761.7	31.5
70°-80°	997.4	11.4
80°-90°	98.8	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°	8765.0	100.0
0°-180°	8765.0	100.0



REPORT NUMBER: P157329

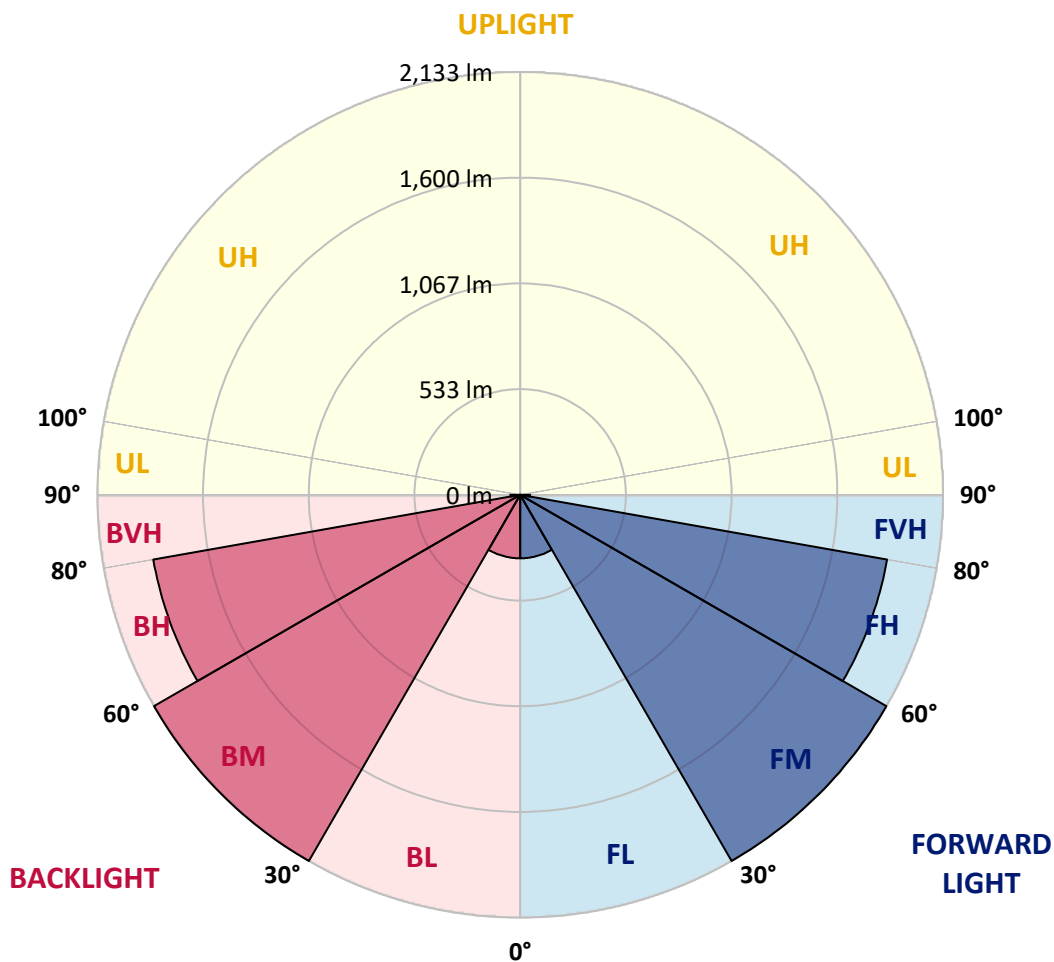
CATALOG NUMBER: VST-E03-LED-E-U-5MQ-7030

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	320.3	3.7			
FM	(30°-60°)	2133.3	24.3			
FH	(60°-80°)	1879.6	21.4			G2/5000
FVH	(80°-90°)	49.4	0.6			G1/100
BL	(0°-30°)	320.3	3.7	B1/500		
BM	(30°-60°)	2133.3	24.3	B2/2500		
BH	(60°-80°)	1879.6	21.4	B3/2500		G2/5000
BVH	(80°-90°)	49.4	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





REPORT NUMBER: P157329

CATALOG NUMBER: VST-E03-LED-E-U-5MQ-7030

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	47.5°
0°	585.3	585.3	585.3	585.3	585.3	585.3	585.3	585.3	585.3	585.3	585.3
2.5°	589.1	588.0	588.5	589.1	588.5	588.0	588.0	588.0	589.1	588.0	590.8
5°	600.6	599.5	600.1	600.1	600.1	599.0	599.0	599.0	598.4	599.0	605.0
7.5°	622.6	620.9	620.3	621.4	620.3	619.8	619.3	619.3	618.2	618.2	625.8
10°	648.8	646.7	647.8	648.3	646.7	645.5	645.5	645.5	643.9	643.4	653.2
12.5°	677.9	676.8	676.8	675.7	675.1	674.0	673.5	674.0	671.9	671.9	681.7
15°	705.8	703.6	704.2	702.5	701.5	700.4	699.8	699.2	698.2	698.2	704.2
17.5°	731.6	730.0	729.4	727.7	726.1	724.4	723.4	722.8	721.2	721.2	726.7
20°	758.5	756.8	755.7	752.9	750.2	748.6	746.4	745.3	743.1	743.6	749.7
22.5°	789.1	786.4	784.2	782.0	777.1	773.8	771.1	768.8	767.8	767.8	776.0
25°	830.2	828.6	825.3	818.2	812.2	807.2	802.9	800.6	798.5	797.3	809.9
27.5°	880.7	879.0	874.6	867.5	859.3	851.0	846.1	842.3	839.6	837.9	856.0
30°	947.5	944.8	940.9	929.4	922.3	909.7	904.2	898.7	892.7	894.4	915.7
32.5°	1078.5	1074.7	1062.6	1050.0	1028.0	1011.1	993.5	980.4	967.8	966.1	989.2
35°	1197.4	1195.7	1193.6	1184.8	1176.6	1166.2	1157.9	1144.3	1132.7	1130.0	1194.7
37.5°	1261.5	1265.3	1262.0	1261.0	1261.0	1265.9	1281.2	1296.6	1307.6	1314.1	1350.3
40°	1359.6	1359.6	1355.8	1353.6	1349.2	1355.8	1362.4	1373.9	1378.8	1379.3	1416.1
42.5°	1470.8	1471.4	1467.6	1461.0	1458.8	1464.8	1473.6	1484.6	1491.1	1492.8	1535.5
45°	1594.7	1593.1	1589.8	1587.6	1589.2	1594.7	1605.1	1626.5	1636.4	1644.1	1690.6
47.5°	1729.0	1739.9	1730.6	1732.3	1732.3	1749.2	1772.8	1790.3	1806.2	1821.1	1870.4
50°	1904.9	1906.5	1908.2	1913.1	1916.4	1938.8	1968.5	1989.3	2012.3	2031.5	2112.1
52.5°	2140.0	2136.7	2144.9	2150.4	2169.0	2181.1	2230.4	2256.7	2288.5	2313.2	2431.0
55°	2421.1	2419.4	2431.5	2435.9	2460.5	2490.2	2545.0	2602.5	2656.7	2686.9	2848.0
57.5°	2622.8	2627.2	2648.0	2677.0	2725.3	2788.3	2869.9	2997.1	3100.1	3133.0	3310.5
60°	2667.2	2681.4	2712.7	2770.7	2853.5	2970.8	3131.3	3325.9	3514.4	3577.4	3744.0
62.5°	2542.7	2559.2	2605.3	2674.9	2782.8	2956.5	3188.3	3462.9	3742.9	3883.2	3967.0
63°	2503.3	2523.6	2558.1	2638.7	2748.3	2919.8	3166.4	3462.3	3752.8	3905.6	3971.4
65°	2318.1	2321.9	2373.4	2454.0	2577.3	2755.4	3004.2	3346.1	3668.4	3844.9	3799.4
67.5°	1994.8	2010.7	2053.9	2135.0	2255.0	2440.3	2710.4	3026.6	3310.0	3450.8	3247.5
70°	1611.7	1610.6	1664.3	1729.5	1835.3	1998.1	2234.8	2520.3	2745.0	2847.5	2507.2
72.5°	1151.3	1122.9	1162.3	1234.7	1321.3	1451.2	1638.5	1860.5	2061.6	2150.4	1833.1
75°	524.5	516.8	551.8	623.6	711.3	826.9	980.9	1172.8	1365.7	1469.8	1167.8
77.5°	176.5	178.7	192.4	218.1	265.3	323.3	419.2	542.0	698.2	801.2	548.0
80°	118.4	121.7	126.1	129.9	135.4	144.1	164.9	196.7	245.0	296.5	173.2
82.5°	97.0	100.9	110.7	115.1	118.4	121.1	122.8	124.9	124.9	126.1	109.6
85°	69.6	76.2	89.3	97.6	100.9	103.0	105.8	109.1	104.1	99.7	85.0
87.5°	24.1	32.9	48.2	53.2	57.0	57.5	61.4	68.0	64.7	52.6	25.7
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: P157329

CATALOG NUMBER: VST-E03-LED-E-U-5MQ-7030

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	70°	75°	80°	85°	90°
0°	585.3	585.3	585.3	585.3	585.3	585.3	585.3	585.3	585.3
2.5°	588.0	587.5	588.0	588.5	588.5	588.5	589.1	589.7	589.7
5°	599.0	599.5	599.0	599.5	599.5	600.1	600.1	601.1	601.1
7.5°	617.6	618.7	618.2	619.3	619.3	620.3	619.8	621.4	621.4
10°	642.8	643.9	645.0	645.5	645.0	646.1	647.2	647.8	647.2
12.5°	671.3	671.9	671.3	672.4	672.4	673.5	673.5	675.1	675.1
15°	697.6	697.1	696.5	698.2	699.2	699.8	700.9	702.5	700.9
17.5°	721.2	721.7	720.7	722.3	724.4	726.1	727.2	729.4	728.9
20°	744.7	743.6	744.7	747.5	749.7	751.9	754.1	757.4	756.8
22.5°	767.8	768.8	771.6	773.8	777.6	780.9	783.7	788.0	789.7
25°	800.1	800.1	804.5	807.2	812.7	817.1	823.1	828.1	830.8
27.5°	841.2	841.2	846.1	852.2	860.4	868.0	874.6	881.2	880.1
30°	897.1	899.8	904.2	911.9	922.9	932.2	940.9	947.5	948.1
32.5°	970.5	973.8	986.9	1006.7	1029.7	1047.2	1060.4	1076.3	1078.5
35°	1137.1	1145.3	1162.3	1178.2	1187.5	1198.0	1204.5	1205.1	1206.2
37.5°	1312.5	1298.2	1285.1	1273.0	1267.6	1266.5	1266.5	1268.6	1269.7
40°	1376.6	1369.5	1363.4	1355.8	1358.0	1357.4	1361.3	1364.5	1366.7
42.5°	1486.2	1480.7	1475.2	1465.4	1470.8	1469.2	1474.7	1479.6	1482.4
45°	1639.1	1622.1	1610.0	1594.1	1599.7	1596.4	1596.4	1602.4	1603.5
47.5°	1807.9	1788.2	1763.5	1743.8	1737.2	1731.2	1736.6	1736.6	1730.6
50°	2010.1	1986.5	1957.5	1925.7	1914.7	1908.7	1910.9	1913.6	1896.7
52.5°	2284.7	2258.3	2217.2	2169.0	2158.6	2153.7	2152.6	2148.7	2144.3
55°	2656.7	2607.4	2557.0	2493.4	2474.3	2468.8	2469.4	2464.9	2475.4
57.5°	3095.7	3023.4	2907.2	2829.9	2783.9	2766.4	2750.5	2743.9	2744.5
60°	3530.3	3382.9	3209.2	3074.3	2977.9	2916.5	2868.3	2841.4	2833.7
62.5°	3810.3	3578.5	3317.6	3099.0	2940.6	2839.3	2763.1	2714.8	2699.5
63°	3832.3	3586.7	3307.8	3073.3	2906.6	2800.3	2720.3	2670.5	2654.0
65°	3784.6	3504.0	3179.0	2899.5	2717.0	2599.2	2512.6	2465.5	2452.9
67.5°	3414.1	3180.7	2849.6	2560.9	2376.7	2257.3	2158.1	2113.1	2098.9
70°	2777.3	2617.3	2346.1	2099.4	1927.9	1812.8	1712.5	1675.3	1674.7
72.5°	2058.9	1851.2	1689.5	1508.7	1359.1	1267.6	1180.4	1138.7	1117.9
75°	1361.8	1139.3	958.4	806.1	657.1	574.9	476.8	434.6	409.9
77.5°	686.1	508.6	364.4	252.7	196.2	161.1	147.4	140.3	139.7
80°	228.5	171.5	147.4	138.1	135.4	135.9	134.3	131.5	128.2
82.5°	126.6	133.1	134.3	130.4	130.4	128.2	126.1	115.6	110.2
85°	108.5	119.5	120.5	118.4	117.8	114.5	110.7	96.4	88.2
87.5°	68.0	78.4	76.7	68.5	75.6	70.7	66.8	43.3	31.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)