

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: P157332

Luminaire Tested: **VST-E03-LED-E-U-5MQ-7060**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P157332
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-7060
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE MEDIUM
Light Source: (63) 5700K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9847.1 lumens
Efficiency: N/A
Efficacy: 130.9 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

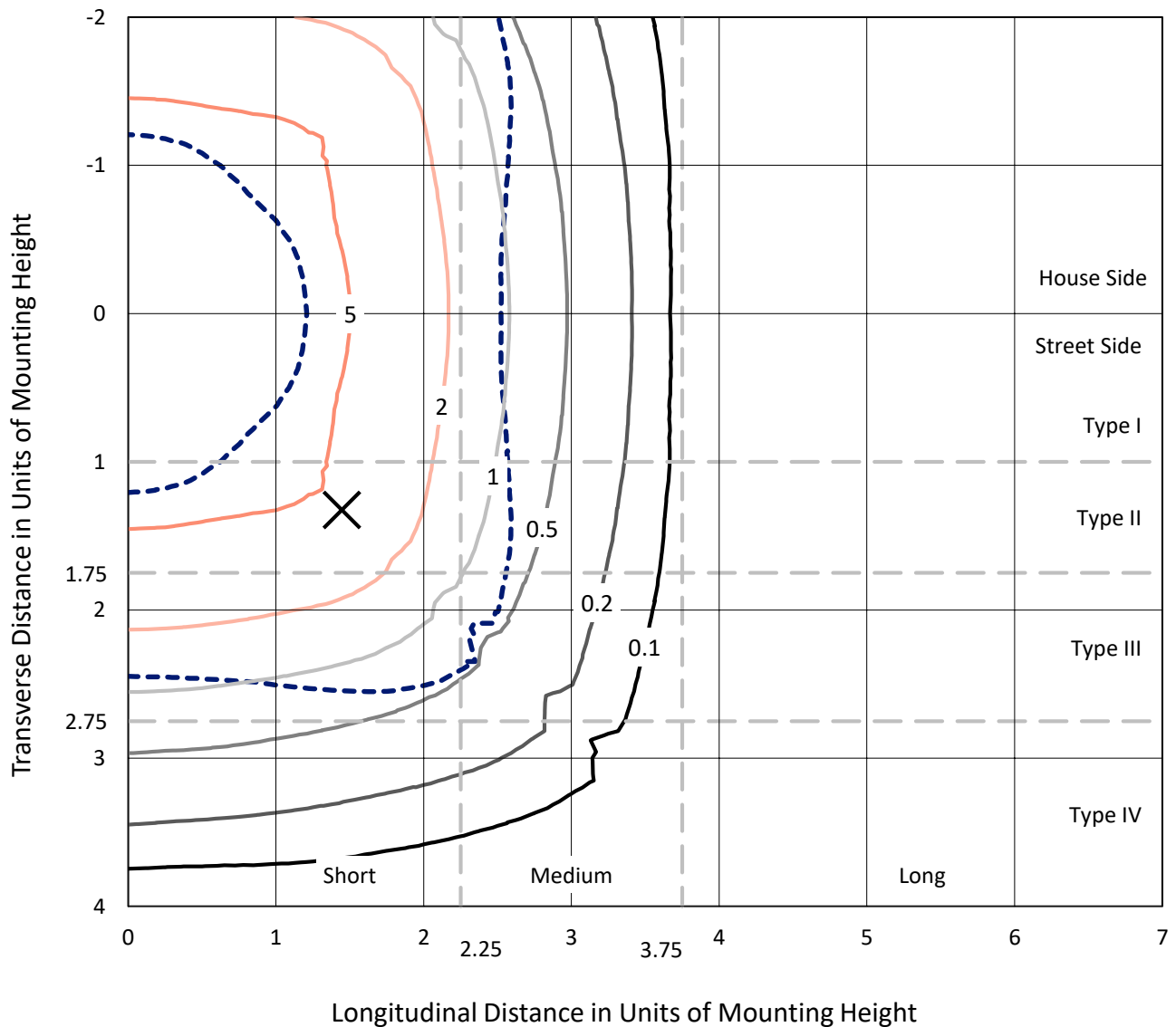
Input Watts (W): 75.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

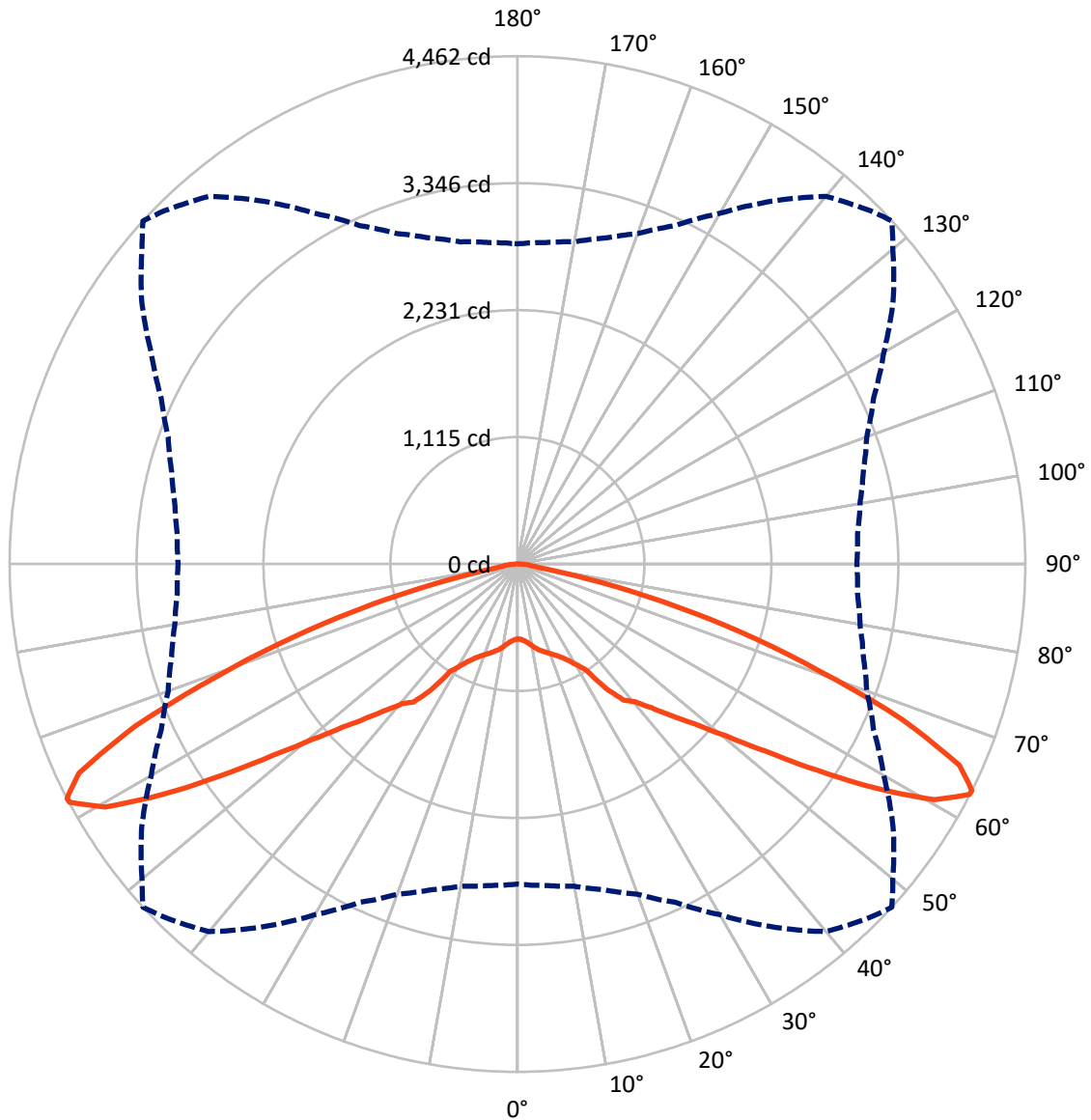
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.2 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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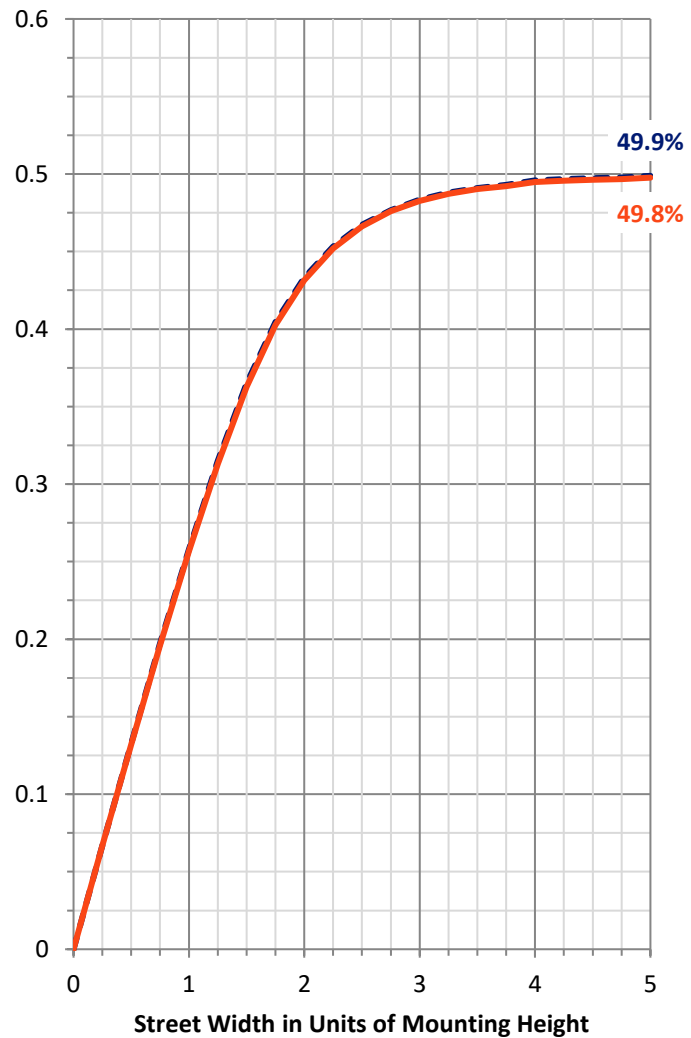
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4923.6	0.0	4923.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4923.6	0.0	4923.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	9847.1	0.0	9847.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.0	0.7
10°-20°	224.4	2.3
20°-30°	429.2	4.4
30°-40°	821.1	8.3
40°-50°	1420.7	14.4
50°-60°	2551.5	25.9
60°-70°	3102.7	31.5
70°-80°	1120.5	11.4
80°-90°	111.0	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°	9847.1	100.0
0°-180°	9847.1	100.0



--- HS — SS

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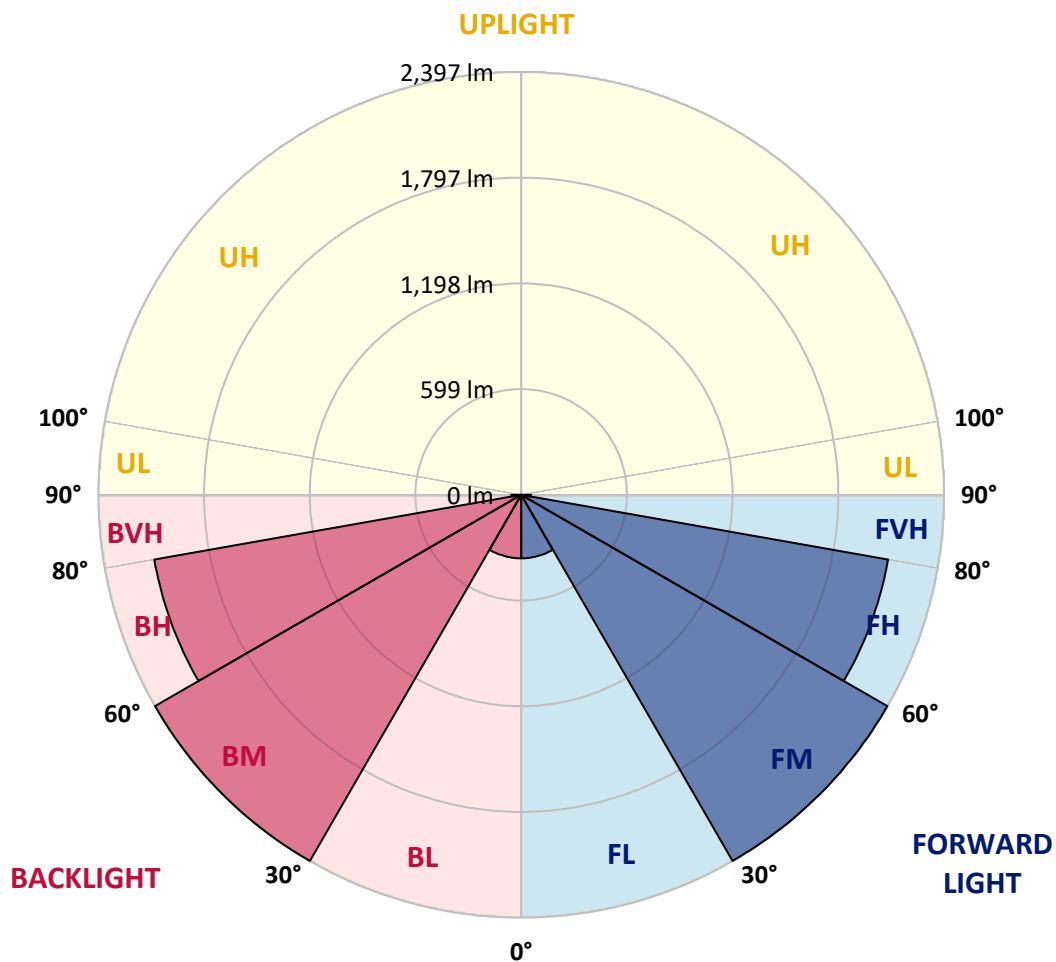
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	359.8	3.7			
FM (30°-60°)	2396.6	24.3			
FH (60°-80°)	2111.6	21.4			G2/5000
FVH (80°-90°)	55.5	0.6			G1/100
BL (0°-30°)	359.8	3.7	B1/500		
BM (30°-60°)	2396.6	24.3	B2/2500		
BH (60°-80°)	2111.6	21.4	B3/2500		G2/5000
BVH (80°-90°)	55.5	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°	657.5	657.5	657.5	657.5	657.5	657.5	657.5	657.5	657.5	657.5	657.5
2.5°	661.9	660.6	661.2	661.9	661.2	660.6	660.6	660.6	661.9	660.6	663.7
5°	674.8	673.6	674.2	674.2	674.2	672.9	672.9	672.9	672.3	672.9	679.7
7.5°	699.4	697.6	697.0	698.2	697.0	696.3	695.7	695.7	694.4	694.4	703.1
10°	728.9	726.5	727.7	728.3	726.5	725.3	725.3	725.3	723.4	722.8	733.9
12.5°	761.6	760.3	760.3	759.1	758.5	757.3	756.7	757.3	754.8	754.8	765.9
15°	793.0	790.5	791.1	789.3	788.0	786.8	786.2	785.6	784.4	784.4	791.1
17.5°	821.9	820.1	819.4	817.6	815.8	813.9	812.7	812.0	810.2	810.2	816.4
20°	852.1	850.3	849.0	845.9	842.8	841.0	838.6	837.3	834.8	835.4	842.2
22.5°	886.6	883.5	881.0	878.6	873.0	869.3	866.2	863.8	862.6	862.6	871.8
25°	932.7	930.9	927.2	919.2	912.4	906.9	901.9	899.5	897.0	895.8	910.0
27.5°	989.4	987.5	982.6	974.6	965.3	956.1	950.6	946.3	943.2	941.3	961.7
30°	1064.5	1061.4	1057.1	1044.2	1036.1	1022.0	1015.9	1009.7	1002.9	1004.8	1028.8
32.5°	1211.6	1207.3	1193.8	1179.6	1155.0	1135.9	1116.2	1101.4	1087.3	1085.4	1111.3
35°	1345.2	1343.4	1340.9	1331.0	1321.8	1310.2	1300.9	1285.5	1272.6	1269.5	1342.1
37.5°	1417.3	1421.6	1417.9	1416.7	1416.7	1422.2	1439.4	1456.7	1469.0	1476.4	1517.0
40°	1527.5	1527.5	1523.2	1520.7	1515.8	1523.2	1530.5	1543.4	1549.0	1549.6	1590.9
42.5°	1652.5	1653.1	1648.7	1641.4	1638.9	1645.7	1655.5	1667.8	1675.2	1677.1	1725.1
45°	1791.6	1789.7	1786.0	1783.6	1785.4	1791.6	1803.3	1827.3	1838.4	1847.0	1899.3
47.5°	1942.4	1954.7	1944.2	1946.1	1946.1	1965.2	1991.7	2011.4	2029.2	2045.8	2101.3
50°	2140.0	2141.9	2143.7	2149.3	2153.0	2178.2	2211.5	2234.9	2260.7	2282.3	2372.8
52.5°	2404.1	2400.5	2409.7	2415.8	2436.8	2450.3	2505.7	2535.3	2571.0	2598.7	2731.1
55°	2720.0	2718.2	2731.7	2736.6	2764.3	2797.6	2859.1	2923.8	2984.8	3018.6	3199.6
57.5°	2946.5	2951.5	2974.9	3007.5	3061.7	3132.5	3224.2	3367.1	3482.8	3519.7	3719.2
60°	2996.5	3012.4	3047.5	3112.8	3205.7	3337.5	3517.9	3736.4	3948.2	4019.0	4206.2
62.5°	2856.7	2875.1	2926.9	3005.0	3126.4	3321.5	3581.9	3890.4	4205.0	4362.6	4456.8
63°	2812.3	2835.1	2873.9	2964.4	3087.5	3280.3	3557.3	3889.7	4216.1	4387.9	4461.7
65°	2604.2	2608.6	2666.5	2756.9	2895.5	3095.6	3375.1	3759.2	4121.2	4319.5	4268.4
67.5°	2241.0	2258.9	2307.5	2398.6	2533.4	2741.5	3045.1	3400.3	3718.6	3876.8	3648.4
70°	1810.7	1809.4	1869.8	1943.0	2061.8	2244.7	2510.7	2831.5	3083.9	3199.0	2816.6
72.5°	1293.5	1261.5	1305.8	1387.1	1484.3	1630.3	1840.9	2090.2	2316.1	2415.8	2059.4
75°	589.2	580.6	620.0	700.6	799.1	929.0	1102.0	1317.5	1534.3	1651.2	1312.0
77.5°	198.2	200.7	216.1	245.0	298.0	363.2	471.0	608.9	784.4	900.1	615.7
80°	133.0	136.7	141.6	145.9	152.0	161.9	185.3	221.0	275.2	333.1	194.5
82.5°	109.0	113.3	124.4	129.3	133.0	136.1	137.9	140.4	140.4	141.6	123.1
85°	78.2	85.6	100.4	109.6	113.3	115.7	118.8	122.5	117.0	112.1	95.4
87.5°	27.1	37.0	54.2	59.7	64.0	64.6	68.9	76.3	72.7	59.1	28.9
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°	657.5	657.5	657.5	657.5	657.5	657.5	657.5	657.5	657.5
2.5°	660.6	660.0	660.6	661.2	661.2	661.2	661.9	662.5	662.5
5°	672.9	673.6	672.9	673.6	673.6	674.2	674.2	675.4	675.4
7.5°	693.8	695.1	694.4	695.7	695.7	697.0	696.3	698.2	698.2
10°	722.2	723.4	724.6	725.3	724.6	725.9	727.1	727.7	727.1
12.5°	754.2	754.8	754.2	755.4	755.4	756.7	756.7	758.5	758.5
15°	783.7	783.1	782.5	784.4	785.6	786.2	787.4	789.3	787.4
17.5°	810.2	810.8	809.6	811.4	813.9	815.8	817.0	819.4	818.8
20°	836.7	835.4	836.7	839.8	842.2	844.7	847.1	850.9	850.3
22.5°	862.6	863.8	866.9	869.3	873.6	877.3	880.4	885.3	887.2
25°	898.9	898.9	903.8	906.9	913.0	917.9	924.7	930.2	933.4
27.5°	945.1	945.1	950.6	957.4	966.6	975.2	982.6	990.0	988.7
30°	1007.8	1010.9	1015.9	1024.4	1036.8	1047.2	1057.1	1064.5	1065.1
32.5°	1090.3	1094.0	1108.8	1131.0	1156.9	1176.5	1191.3	1209.2	1211.6
35°	1277.5	1286.8	1305.8	1323.7	1334.2	1345.9	1353.2	1353.8	1355.1
37.5°	1474.5	1458.5	1443.7	1430.2	1424.0	1422.8	1422.8	1425.2	1426.5
40°	1546.6	1538.5	1531.8	1523.2	1525.6	1525.0	1529.3	1533.0	1535.5
42.5°	1669.7	1663.5	1657.4	1646.3	1652.5	1650.6	1656.7	1662.3	1665.4
45°	1841.5	1822.4	1808.8	1790.9	1797.1	1793.4	1793.4	1800.2	1801.4
47.5°	2031.1	2008.9	1981.2	1959.1	1951.7	1944.9	1951.0	1951.0	1944.2
50°	2258.3	2231.8	2199.1	2163.4	2151.1	2144.3	2146.8	2149.9	2130.8
52.5°	2566.7	2537.2	2491.0	2436.8	2425.1	2419.6	2418.3	2414.0	2409.1
55°	2984.8	2929.3	2872.7	2801.3	2779.7	2773.6	2774.2	2769.2	2780.9
57.5°	3477.9	3396.6	3266.1	3179.3	3127.6	3107.9	3090.0	3082.6	3083.2
60°	3966.1	3800.5	3605.3	3453.9	3345.5	3276.5	3222.4	3192.2	3183.6
62.5°	4280.7	4020.3	3727.2	3481.6	3303.7	3189.8	3104.2	3050.0	3032.8
63°	4305.4	4029.5	3716.2	3452.6	3265.5	3146.0	3056.2	3000.1	2981.6
65°	4251.8	3936.5	3571.4	3257.5	3052.4	2920.1	2822.8	2769.8	2755.7
67.5°	3835.6	3573.3	3201.4	2877.0	2670.1	2535.9	2424.5	2374.0	2358.0
70°	3120.2	2940.4	2635.7	2358.6	2165.9	2036.6	1924.0	1882.1	1881.5
72.5°	2313.1	2079.7	1898.1	1694.9	1526.8	1424.0	1326.1	1279.3	1256.0
75°	1529.9	1280.0	1076.8	905.6	738.2	645.8	535.6	488.2	460.5
77.5°	770.8	571.3	409.4	283.8	220.4	181.0	165.6	157.6	157.0
80°	256.7	192.7	165.6	155.2	152.0	152.7	150.8	147.8	144.1
82.5°	142.2	149.6	150.8	146.5	146.5	144.1	141.6	129.9	123.7
85°	121.9	134.2	135.4	133.0	132.4	128.7	124.4	108.4	99.1
87.5°	76.3	88.0	86.2	77.0	85.0	79.4	75.1	48.7	35.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)