

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: P157330

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P157330
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
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE MEDIUM
Light Source: (63) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9596.6 lumens
Efficiency: N/A
Efficacy: 127.6 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



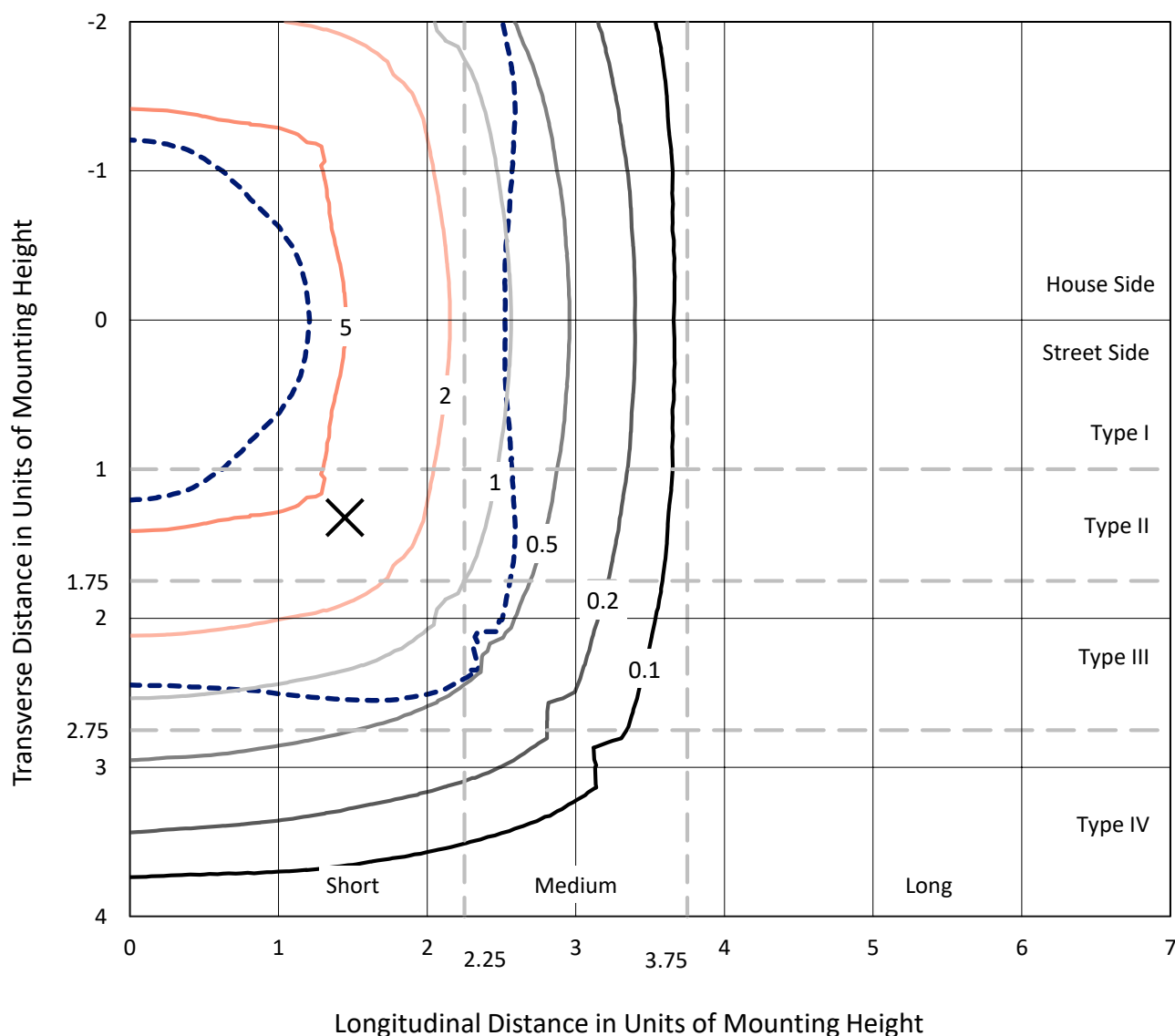
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

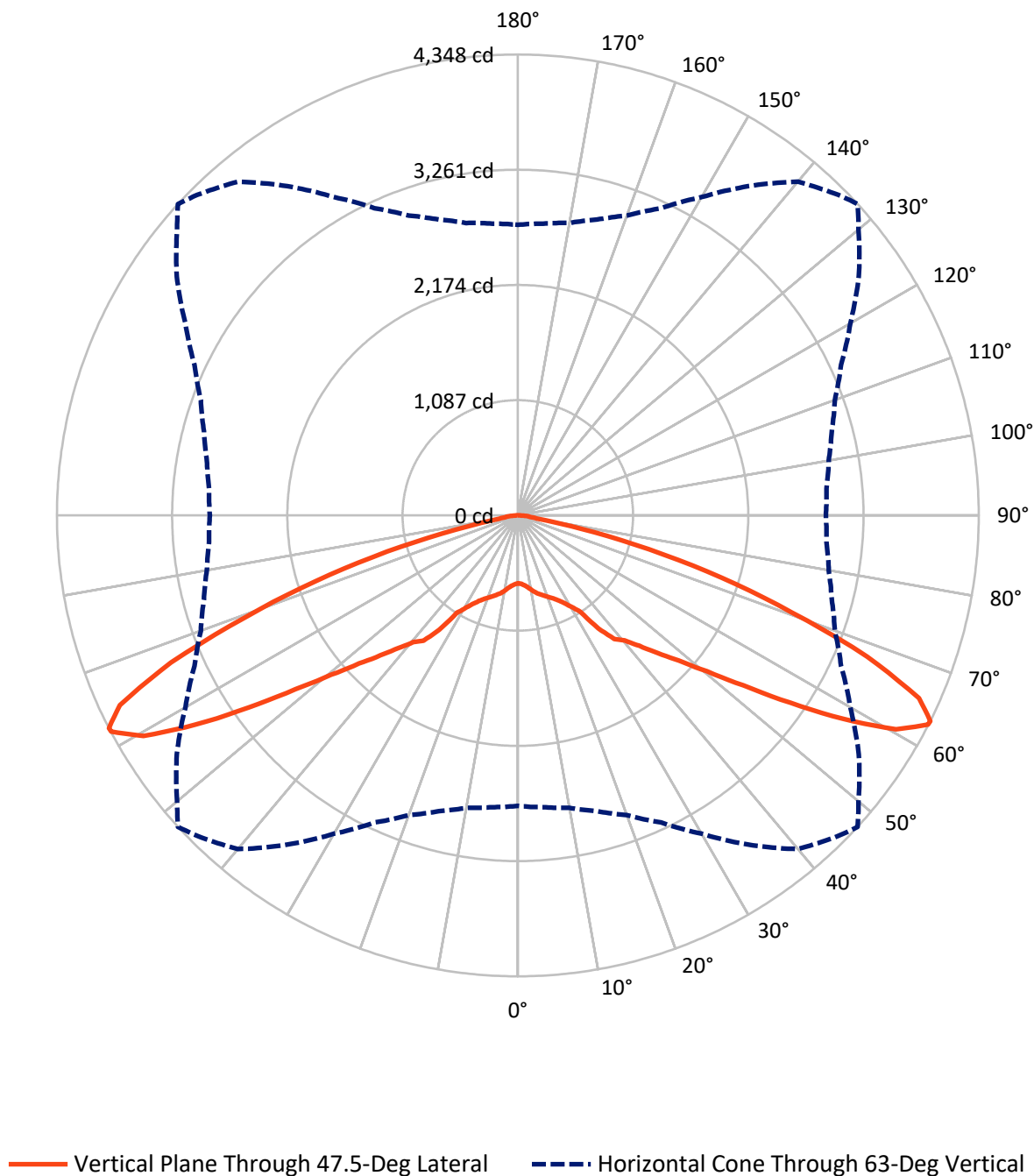


Based on 10 foot mounting height. Maximum calculated value = 7 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4798.3	0.0	4798.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4798.3	0.0	4798.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	9596.6	0.0	9596.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.3	0.7
10°-20°	218.7	2.3
20°-30°	418.3	4.4
30°-40°	800.2	8.3
40°-50°	1384.6	14.4
50°-60°	2486.6	25.9
60°-70°	3023.7	31.5
70°-80°	1092.0	11.4
80°-90°	108.2	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°	9596.6	100.0
0°-180°	9596.6	100.0

Coefficient of Utilization



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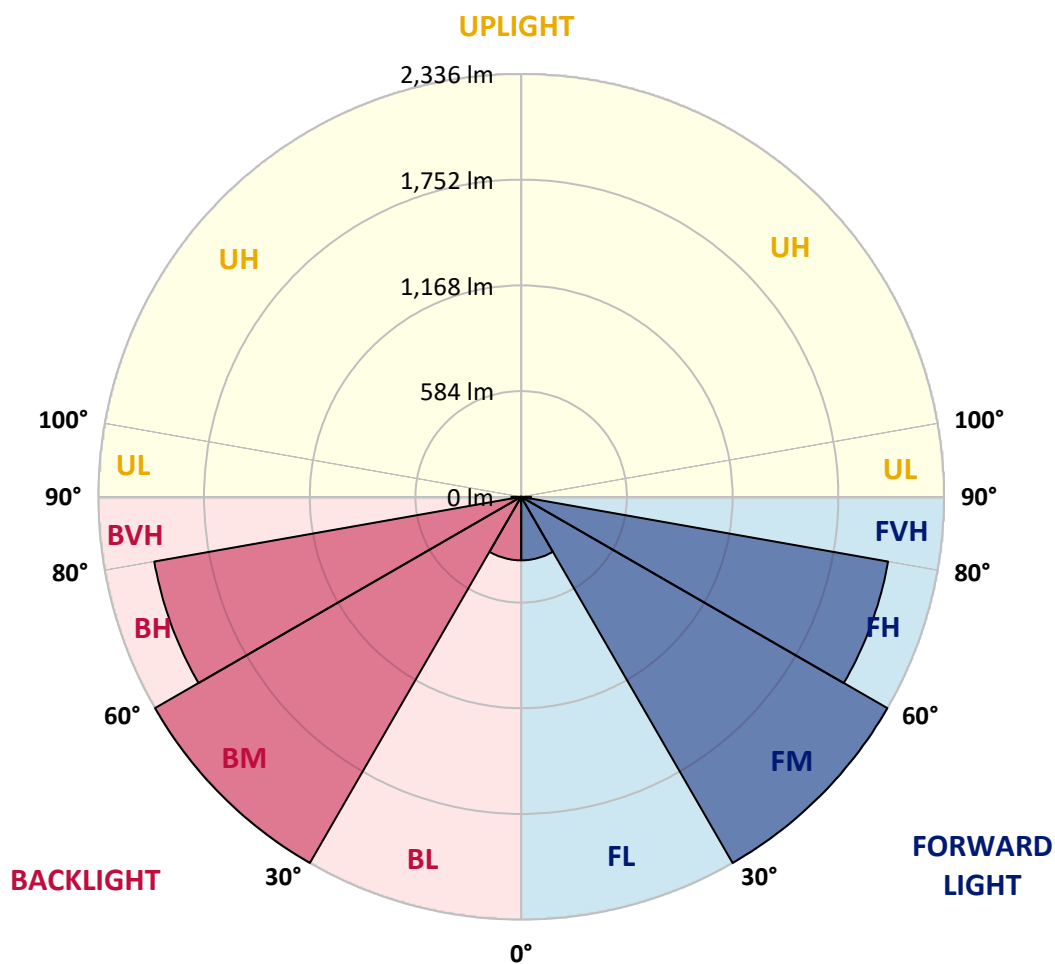
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	350.7	3.7			
FM	(30°-60°)	2335.7	24.3			
FH	(60°-80°)	2057.9	21.4			G2/5000
FVH	(80°-90°)	54.1	0.6			G1/100
BL	(0°-30°)	350.7	3.7	B1/500		
BM	(30°-60°)	2335.7	24.3	B2/2500		
BH	(60°-80°)	2057.9	21.4	B3/2500		G2/5000
BVH	(80°-90°)	54.1	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°	640.8	640.8	640.8	640.8	640.8	640.8	640.8	640.8	640.8	640.8	640.8
2.5°	645.0	643.8	644.4	645.0	644.4	643.8	643.8	643.8	645.0	643.8	646.8
5°	657.6	656.4	657.0	657.0	657.0	655.8	655.8	655.8	655.2	655.8	662.4
7.5°	681.6	679.8	679.2	680.4	679.2	678.6	678.0	678.0	676.8	676.8	685.2
10°	710.4	708.0	709.2	709.8	708.0	706.8	706.8	706.8	705.0	704.4	715.2
12.5°	742.2	741.0	741.0	739.8	739.2	738.0	737.4	738.0	735.6	735.6	746.4
15°	772.8	770.4	771.0	769.2	768.0	766.8	766.2	765.6	764.4	764.4	771.0
17.5°	801.0	799.2	798.6	796.8	795.0	793.2	792.0	791.4	789.6	789.6	795.6
20°	830.4	828.6	827.4	824.4	821.4	819.6	817.2	816.0	813.6	814.2	820.8
22.5°	864.0	861.0	858.6	856.2	850.8	847.2	844.2	841.8	840.6	840.6	849.6
25°	909.0	907.2	903.6	895.8	889.2	883.8	879.0	876.6	874.2	873.0	886.8
27.5°	964.2	962.4	957.6	949.8	940.8	931.8	926.4	922.2	919.2	917.4	937.2
30°	1037.4	1034.4	1030.2	1017.6	1009.8	996.0	990.0	984.0	977.4	979.2	1002.6
32.5°	1180.8	1176.6	1163.4	1149.6	1125.6	1107.0	1087.8	1073.4	1059.6	1057.8	1083.0
35°	1311.0	1309.2	1306.8	1297.2	1288.2	1276.8	1267.8	1252.8	1240.2	1237.2	1308.0
37.5°	1381.2	1385.4	1381.8	1380.6	1380.6	1386.0	1402.8	1419.6	1431.6	1438.8	1478.4
40°	1488.6	1488.6	1484.4	1482.0	1477.2	1484.4	1491.6	1504.2	1509.6	1510.2	1550.4
42.5°	1610.4	1611.0	1606.8	1599.6	1597.2	1603.8	1613.4	1625.4	1632.6	1634.4	1681.2
45°	1746.0	1744.2	1740.6	1738.2	1740.0	1746.0	1757.4	1780.8	1791.6	1800.0	1851.0
47.5°	1893.0	1905.0	1894.8	1896.6	1896.6	1915.2	1941.0	1960.2	1977.6	1993.8	2047.8
50°	2085.6	2087.4	2089.2	2094.6	2098.2	2122.8	2155.2	2178.0	2203.2	2224.2	2312.4
52.5°	2343.0	2339.4	2348.4	2354.4	2374.8	2388.0	2442.0	2470.8	2505.6	2532.6	2661.6
55°	2650.8	2649.0	2662.2	2667.0	2694.0	2726.4	2786.4	2849.4	2908.8	2941.8	3118.2
57.5°	2871.6	2876.4	2899.2	2931.0	2983.8	3052.8	3142.2	3281.4	3394.2	3430.2	3624.6
60°	2920.2	2935.8	2970.0	3033.6	3124.2	3252.6	3428.4	3641.4	3847.8	3916.8	4099.2
62.5°	2784.0	2802.0	2852.4	2928.6	3046.8	3237.0	3490.8	3791.4	4098.0	4251.6	4343.4
63°	2740.8	2763.0	2800.8	2889.0	3009.0	3196.8	3466.8	3790.8	4108.8	4276.2	4348.2
65°	2538.0	2542.2	2598.6	2686.8	2821.8	3016.8	3289.2	3663.6	4016.4	4209.6	4159.8
67.5°	2184.0	2201.4	2248.8	2337.6	2469.0	2671.8	2967.6	3313.8	3624.0	3778.2	3555.6
70°	1764.6	1763.4	1822.2	1893.6	2009.4	2187.6	2446.8	2759.4	3005.4	3117.6	2745.0
72.5°	1260.6	1229.4	1272.6	1351.8	1446.6	1588.8	1794.0	2037.0	2257.2	2354.4	2007.0
75°	574.2	565.8	604.2	682.8	778.8	905.4	1074.0	1284.0	1495.2	1609.2	1278.6
77.5°	193.2	195.6	210.6	238.8	290.4	354.0	459.0	593.4	764.4	877.2	600.0
80°	129.6	133.2	138.0	142.2	148.2	157.8	180.6	215.4	268.2	324.6	189.6
82.5°	106.2	110.4	121.2	126.0	129.6	132.6	134.4	136.8	136.8	138.0	120.0
85°	76.2	83.4	97.8	106.8	110.4	112.8	115.8	119.4	114.0	109.2	93.0
87.5°	26.4	36.0	52.8	58.2	62.4	63.0	67.2	74.4	70.8	57.6	28.2
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°	640.8	640.8	640.8	640.8	640.8	640.8	640.8	640.8	640.8
2.5°	643.8	643.2	643.8	644.4	644.4	644.4	645.0	645.6	645.6
5°	655.8	656.4	655.8	656.4	656.4	657.0	657.0	658.2	658.2
7.5°	676.2	677.4	676.8	678.0	678.0	679.2	678.6	680.4	680.4
10°	703.8	705.0	706.2	706.8	706.2	707.4	708.6	709.2	708.6
12.5°	735.0	735.6	735.0	736.2	736.2	737.4	737.4	739.2	739.2
15°	763.8	763.2	762.6	764.4	765.6	766.2	767.4	769.2	767.4
17.5°	789.6	790.2	789.0	790.8	793.2	795.0	796.2	798.6	798.0
20°	815.4	814.2	815.4	818.4	820.8	823.2	825.6	829.2	828.6
22.5°	840.6	841.8	844.8	847.2	851.4	855.0	858.0	862.8	864.6
25°	876.0	876.0	880.8	883.8	889.8	894.6	901.2	906.6	909.6
27.5°	921.0	921.0	926.4	933.0	942.0	950.4	957.6	964.8	963.6
30°	982.2	985.2	990.0	998.4	1010.4	1020.6	1030.2	1037.4	1038.0
32.5°	1062.6	1066.2	1080.6	1102.2	1127.4	1146.6	1161.0	1178.4	1180.8
35°	1245.0	1254.0	1272.6	1290.0	1300.2	1311.6	1318.8	1319.4	1320.6
37.5°	1437.0	1421.4	1407.0	1393.8	1387.8	1386.6	1386.6	1389.0	1390.2
40°	1507.2	1499.4	1492.8	1484.4	1486.8	1486.2	1490.4	1494.0	1496.4
42.5°	1627.2	1621.2	1615.2	1604.4	1610.4	1608.6	1614.6	1620.0	1623.0
45°	1794.6	1776.0	1762.8	1745.4	1751.4	1747.8	1747.8	1754.4	1755.6
47.5°	1979.4	1957.8	1930.8	1909.2	1902.0	1895.4	1901.4	1901.4	1894.8
50°	2200.8	2175.0	2143.2	2108.4	2096.4	2089.8	2092.2	2095.2	2076.6
52.5°	2501.4	2472.6	2427.6	2374.8	2363.4	2358.0	2356.8	2352.6	2347.8
55°	2908.8	2854.8	2799.6	2730.0	2709.0	2703.0	2703.6	2698.8	2710.2
57.5°	3389.4	3310.2	3183.0	3098.4	3048.0	3028.8	3011.4	3004.2	3004.8
60°	3865.2	3703.8	3513.6	3366.0	3260.4	3193.2	3140.4	3111.0	3102.6
62.5°	4171.8	3918.0	3632.4	3393.0	3219.6	3108.6	3025.2	2972.4	2955.6
63°	4195.8	3927.0	3621.6	3364.8	3182.4	3066.0	2978.4	2923.8	2905.8
65°	4143.6	3836.4	3480.6	3174.6	2974.8	2845.8	2751.0	2699.4	2685.6
67.5°	3738.0	3482.4	3120.0	2803.8	2602.2	2471.4	2362.8	2313.6	2298.0
70°	3040.8	2865.6	2568.6	2298.6	2110.8	1984.8	1875.0	1834.2	1833.6
72.5°	2254.2	2026.8	1849.8	1651.8	1488.0	1387.8	1292.4	1246.8	1224.0
75°	1491.0	1247.4	1049.4	882.6	719.4	629.4	522.0	475.8	448.8
77.5°	751.2	556.8	399.0	276.6	214.8	176.4	161.4	153.6	153.0
80°	250.2	187.8	161.4	151.2	148.2	148.8	147.0	144.0	140.4
82.5°	138.6	145.8	147.0	142.8	142.8	140.4	138.0	126.6	120.6
85°	118.8	130.8	132.0	129.6	129.0	125.4	121.2	105.6	96.6
87.5°	74.4	85.8	84.0	75.0	82.8	77.4	73.2	47.4	34.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)