

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: P157336

Luminaire Tested: **VST-F03-LED-E-U-5MQ-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P157336
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-F03-LED-E-U-5MQ-7050
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE MEDIUM
Light Source: (21) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8129 lumens
Efficiency: N/A
Efficacy: 103.8 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): 78.3
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

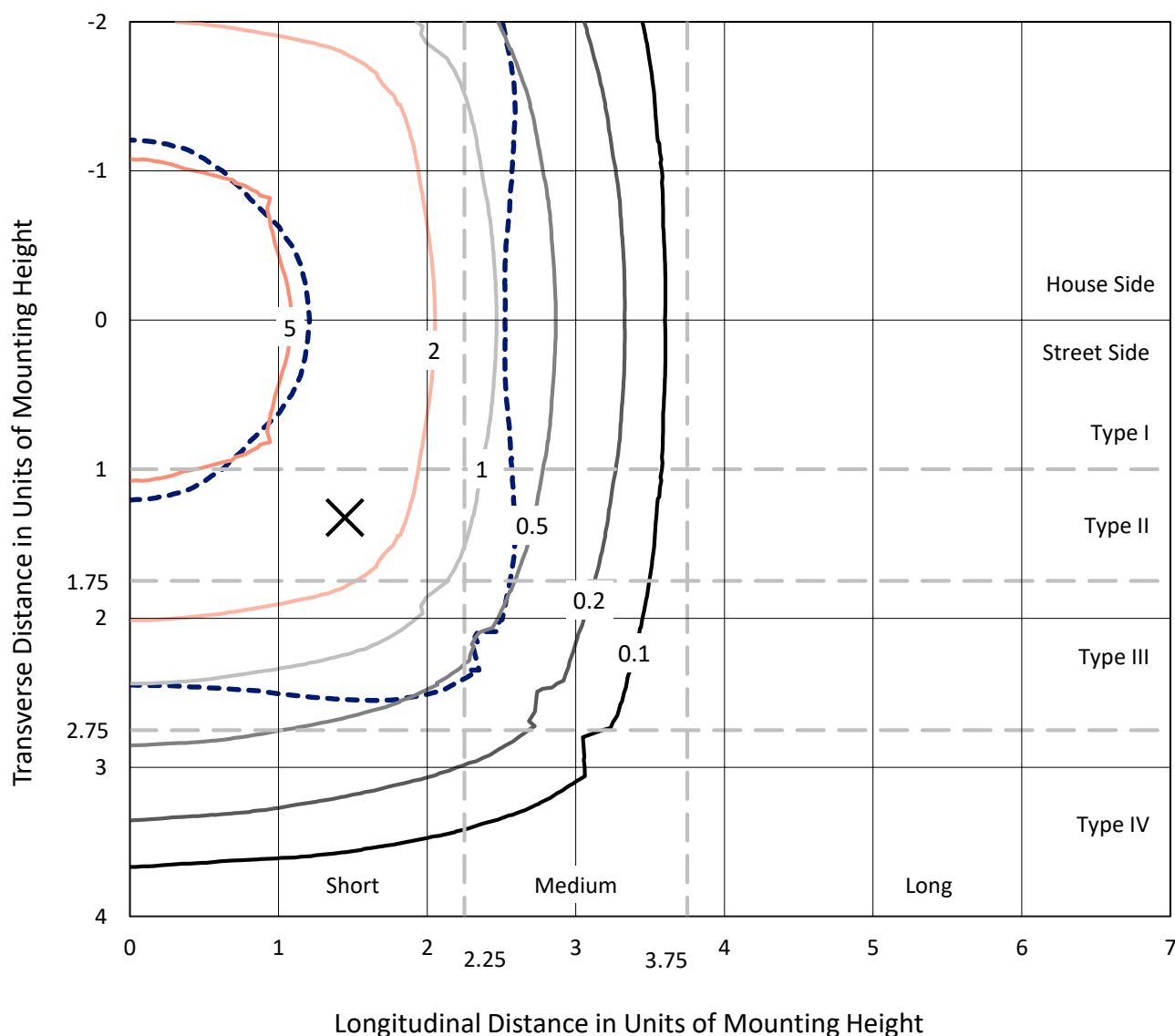


REPORT NUMBER: P157336

CATALOG NUMBER: VST-F03-LED-E-U-5MQ-7050

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

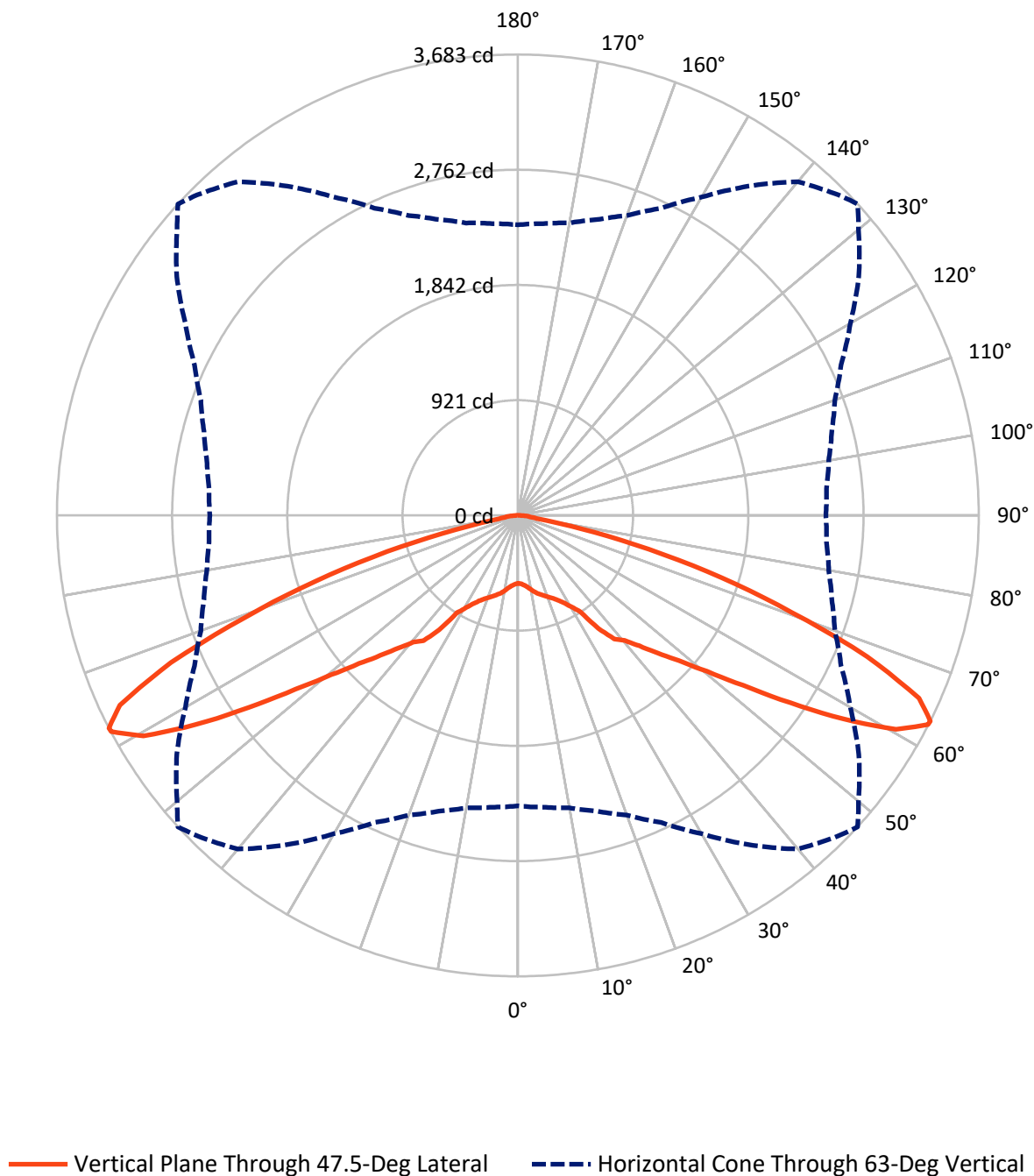


Based on 10 foot mounting height. Maximum calculated value = 6 fc
 Type V - Short - Full Cutoff

REPORT NUMBER: P157336

CATALOG NUMBER: VST-F03-LED-E-U-5MQ-7050

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4064.5	0.0	4064.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4064.5	0.0	4064.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	8129.0	0.0	8129.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.5	0.7
10°-20°	185.2	2.3
20°-30°	354.3	4.4
30°-40°	677.8	8.3
40°-50°	1172.8	14.4
50°-60°	2106.3	25.9
60°-70°	2561.3	31.5
70°-80°	925.0	11.4
80°-90°	91.6	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°	8129.0	100.0
0°-180°	8129.0	100.0

Coefficient of Utilization



REPORT NUMBER: P157336

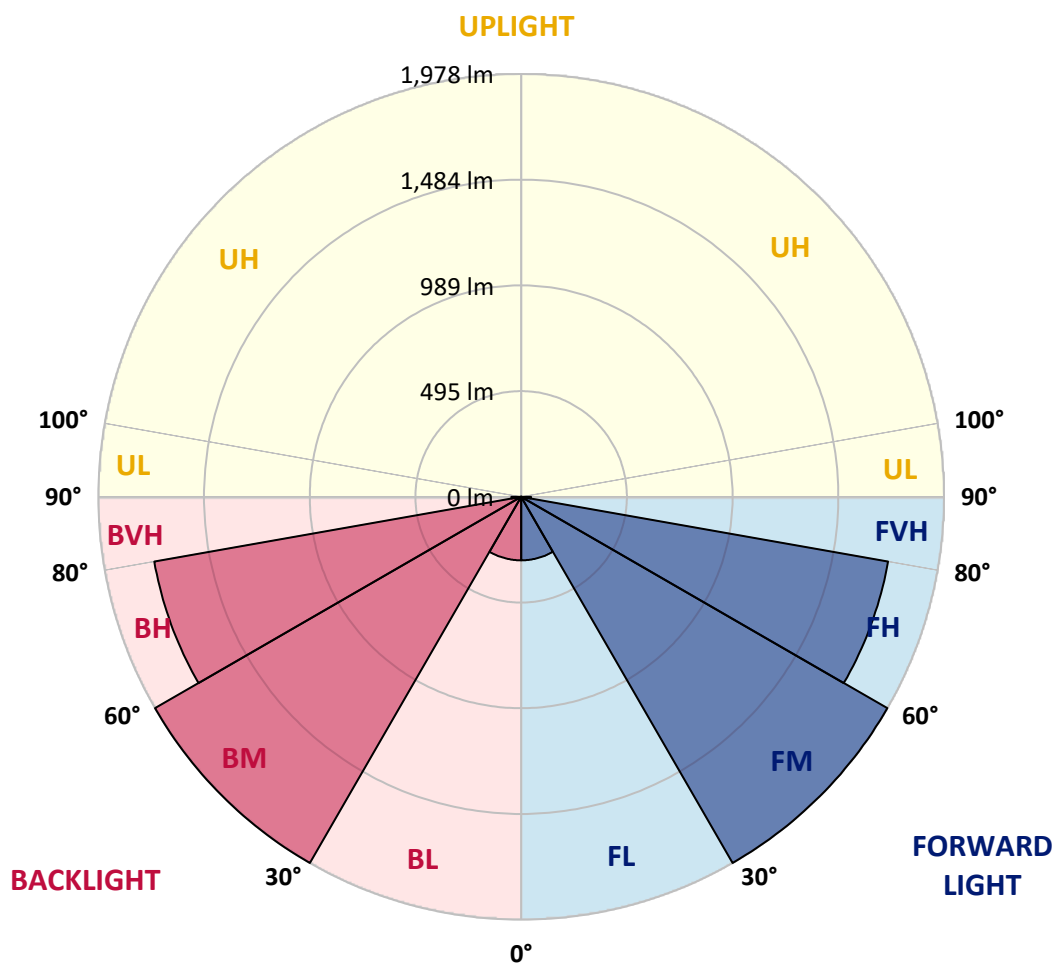
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	297.0	3.7			
FM	(30°-60°)	1978.5	24.3			
FH	(60°-80°)	1743.2	21.4			G1/1800
FVH	(80°-90°)	45.8	0.6			G1/100
BL	(0°-30°)	297.0	3.7	B1/500		
BM	(30°-60°)	1978.5	24.3	B2/2500		
BH	(60°-80°)	1743.2	21.4	B3/2500		G1/1800
BVH	(80°-90°)	45.8	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





REPORT NUMBER: P157336

CATALOG NUMBER: VST-F03-LED-E-U-5MQ-7050

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	47.5°
0°	542.8	542.8	542.8	542.8	542.8	542.8	542.8	542.8	542.8	542.8	542.8
2.5°	546.4	545.3	545.9	546.4	545.9	545.3	545.3	545.3	546.4	545.3	547.9
5°	557.0	556.0	556.5	556.5	556.5	555.5	555.5	555.5	555.0	555.5	561.1
7.5°	577.4	575.8	575.3	576.4	575.3	574.8	574.3	574.3	573.3	573.3	580.4
10°	601.7	599.7	600.7	601.3	599.7	598.7	598.7	598.7	597.2	596.7	605.8
12.5°	628.7	627.7	627.7	626.6	626.2	625.1	624.7	625.1	623.1	623.1	632.3
15°	654.6	652.6	653.1	651.6	650.6	649.6	649.0	648.5	647.5	647.5	653.1
17.5°	678.5	677.0	676.5	674.9	673.4	671.9	670.9	670.4	668.9	668.9	673.9
20°	703.4	701.9	700.9	698.3	695.8	694.3	692.2	691.2	689.2	689.7	695.3
22.5°	731.9	729.4	727.3	725.3	720.7	717.7	715.1	713.0	712.1	712.1	719.7
25°	770.0	768.5	765.4	758.8	753.2	748.6	744.6	742.6	740.5	739.5	751.2
27.5°	816.8	815.2	811.1	804.5	796.9	789.3	784.7	781.2	778.6	777.1	793.9
30°	878.8	876.2	872.6	862.0	855.4	843.7	838.6	833.5	827.9	829.4	849.3
32.5°	1000.2	996.7	985.5	973.8	953.5	937.7	921.4	909.2	897.5	896.0	917.4
35°	1110.5	1109.0	1106.9	1098.8	1091.2	1081.6	1073.9	1061.2	1050.5	1048.0	1108.0
37.5°	1170.0	1173.5	1170.5	1169.5	1169.5	1174.0	1188.3	1202.5	1212.7	1218.8	1252.3
40°	1261.0	1261.0	1257.4	1255.4	1251.3	1257.4	1263.5	1274.2	1278.7	1279.3	1313.3
42.5°	1364.2	1364.6	1361.1	1355.0	1352.9	1358.5	1366.7	1376.8	1382.9	1384.4	1424.1
45°	1479.0	1477.4	1474.4	1472.4	1473.9	1479.0	1488.7	1508.5	1517.6	1524.7	1567.9
47.5°	1603.5	1613.7	1605.1	1606.6	1606.6	1622.3	1644.2	1660.4	1675.2	1688.9	1734.7
50°	1766.6	1768.2	1769.7	1774.3	1777.3	1798.2	1825.6	1844.9	1866.3	1884.1	1958.8
52.5°	1984.7	1981.6	1989.3	1994.3	2011.6	2022.8	2068.6	2093.0	2122.4	2145.3	2254.6
55°	2245.4	2243.9	2255.1	2259.2	2282.0	2309.5	2360.3	2413.7	2464.0	2491.9	2641.4
57.5°	2432.5	2436.5	2455.9	2482.8	2527.5	2585.9	2661.7	2779.6	2875.1	2905.6	3070.3
60°	2473.6	2486.8	2515.8	2569.7	2646.4	2755.2	2904.1	3084.5	3259.4	3317.8	3472.3
62.5°	2358.2	2373.5	2416.2	2480.8	2580.8	2742.0	2957.0	3211.6	3471.3	3601.4	3679.2
63°	2321.6	2340.5	2372.5	2447.2	2548.9	2707.9	2936.6	3211.1	3480.5	3622.3	3683.3
65°	2149.9	2153.5	2201.2	2275.9	2390.3	2555.5	2786.2	3103.3	3402.2	3565.9	3523.7
67.5°	1850.0	1864.7	1904.9	1980.1	2091.4	2263.2	2513.8	2807.0	3069.8	3200.4	3011.9
70°	1494.7	1493.8	1543.6	1604.0	1702.1	1853.0	2072.6	2337.4	2545.8	2640.8	2325.2
72.5°	1067.8	1041.4	1078.0	1145.1	1225.4	1345.9	1519.7	1725.5	1912.0	1994.3	1700.1
75°	486.4	479.3	511.8	578.4	659.7	766.9	909.8	1087.6	1266.5	1363.1	1083.1
77.5°	163.7	165.7	178.4	202.3	246.0	299.9	388.8	502.7	647.5	743.0	508.3
80°	109.8	112.9	116.9	120.5	125.5	133.7	153.0	182.5	227.2	275.0	160.6
82.5°	89.9	93.5	102.7	106.7	109.8	112.3	113.8	115.9	115.9	116.9	101.6
85°	64.6	70.6	82.9	90.5	93.5	95.6	98.1	101.2	96.5	92.5	78.8
87.5°	22.4	30.5	44.7	49.3	52.9	53.3	56.9	63.0	60.0	48.8	23.9
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: P157336

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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	70°	75°	80°	85°	90°
0°	542.8	542.8	542.8	542.8	542.8	542.8	542.8	542.8	542.8
2.5°	545.3	544.9	545.3	545.9	545.9	545.9	546.4	546.9	546.9
5°	555.5	556.0	555.5	556.0	556.0	556.5	556.5	557.5	557.5
7.5°	572.8	573.8	573.3	574.3	574.3	575.3	574.8	576.4	576.4
10°	596.2	597.2	598.2	598.7	598.2	599.2	600.2	600.7	600.2
12.5°	622.6	623.1	622.6	623.6	623.6	624.7	624.7	626.2	626.2
15°	647.0	646.5	646.0	647.5	648.5	649.0	650.0	651.6	650.0
17.5°	668.9	669.4	668.3	669.8	671.9	673.4	674.5	676.5	676.0
20°	690.7	689.7	690.7	693.2	695.3	697.3	699.4	702.4	701.9
22.5°	712.1	713.0	715.6	717.7	721.2	724.3	726.8	730.9	732.4
25°	742.0	742.0	746.1	748.6	753.7	757.8	763.4	767.9	770.5
27.5°	780.2	780.2	784.7	790.3	797.9	805.1	811.1	817.3	816.2
30°	832.0	834.5	838.6	845.7	855.9	864.5	872.6	878.8	879.2
32.5°	900.1	903.2	915.4	933.7	955.0	971.3	983.5	998.2	1000.2
35°	1054.6	1062.2	1078.0	1092.7	1101.4	1111.0	1117.1	1117.6	1118.6
37.5°	1217.2	1204.0	1191.8	1180.7	1175.6	1174.6	1174.6	1176.6	1177.6
40°	1276.7	1270.1	1264.5	1257.4	1259.5	1258.9	1262.5	1265.5	1267.6
42.5°	1378.4	1373.3	1368.2	1359.1	1364.2	1362.6	1367.7	1372.3	1374.8
45°	1520.2	1504.4	1493.2	1478.5	1483.6	1480.5	1480.5	1486.1	1487.1
47.5°	1676.7	1658.4	1635.5	1617.2	1611.1	1605.5	1610.6	1610.6	1605.1
50°	1864.3	1842.4	1815.5	1786.0	1775.8	1770.2	1772.3	1774.8	1759.0
52.5°	2118.9	2094.5	2056.4	2011.6	2002.0	1997.4	1996.4	1992.8	1988.8
55°	2464.0	2418.2	2371.5	2312.5	2294.7	2289.7	2290.1	2286.1	2295.7
57.5°	2871.1	2804.0	2696.2	2624.6	2581.9	2565.6	2550.9	2544.8	2545.3
60°	3274.1	3137.4	2976.3	2851.3	2761.8	2704.9	2660.2	2635.3	2628.1
62.5°	3533.8	3318.8	3076.9	2874.1	2727.2	2633.2	2562.6	2517.8	2503.6
63°	3554.2	3326.5	3067.7	2850.2	2695.7	2597.2	2522.9	2476.7	2461.4
65°	3509.9	3249.7	2948.3	2689.1	2519.9	2410.6	2330.3	2286.6	2274.9
67.5°	3166.4	2949.8	2642.9	2375.0	2204.3	2093.5	2001.5	1959.8	1946.6
70°	2575.8	2427.4	2175.8	1947.1	1788.0	1681.3	1588.3	1553.7	1553.2
72.5°	1909.5	1716.8	1566.9	1399.2	1260.4	1175.6	1094.8	1056.1	1036.8
75°	1263.0	1056.7	888.9	747.6	609.4	533.2	442.2	403.0	380.2
77.5°	636.3	471.7	338.0	234.3	182.0	149.4	136.7	130.1	129.6
80°	211.9	159.1	136.7	128.1	125.5	126.1	124.5	122.0	118.9
82.5°	117.4	123.5	124.5	121.0	121.0	118.9	116.9	107.2	102.2
85°	100.6	110.8	111.8	109.8	109.3	106.2	102.7	89.5	81.8
87.5°	63.0	72.7	71.2	63.5	70.1	65.6	62.0	40.1	29.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)