

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: P157326

Luminaire Tested: **VST-F02-LED-E-U-5MQ-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P157326
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-F02-LED-E-U-5MQ-7050
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE MEDIUM
Light Source: (14) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5419.4 lumens
Efficiency: N/A
Efficacy: 98.5 lumens/watt
Luminous Opening: Rectangular (W 0.33' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B3 - U0 - G1

Input Watts (W): 55
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



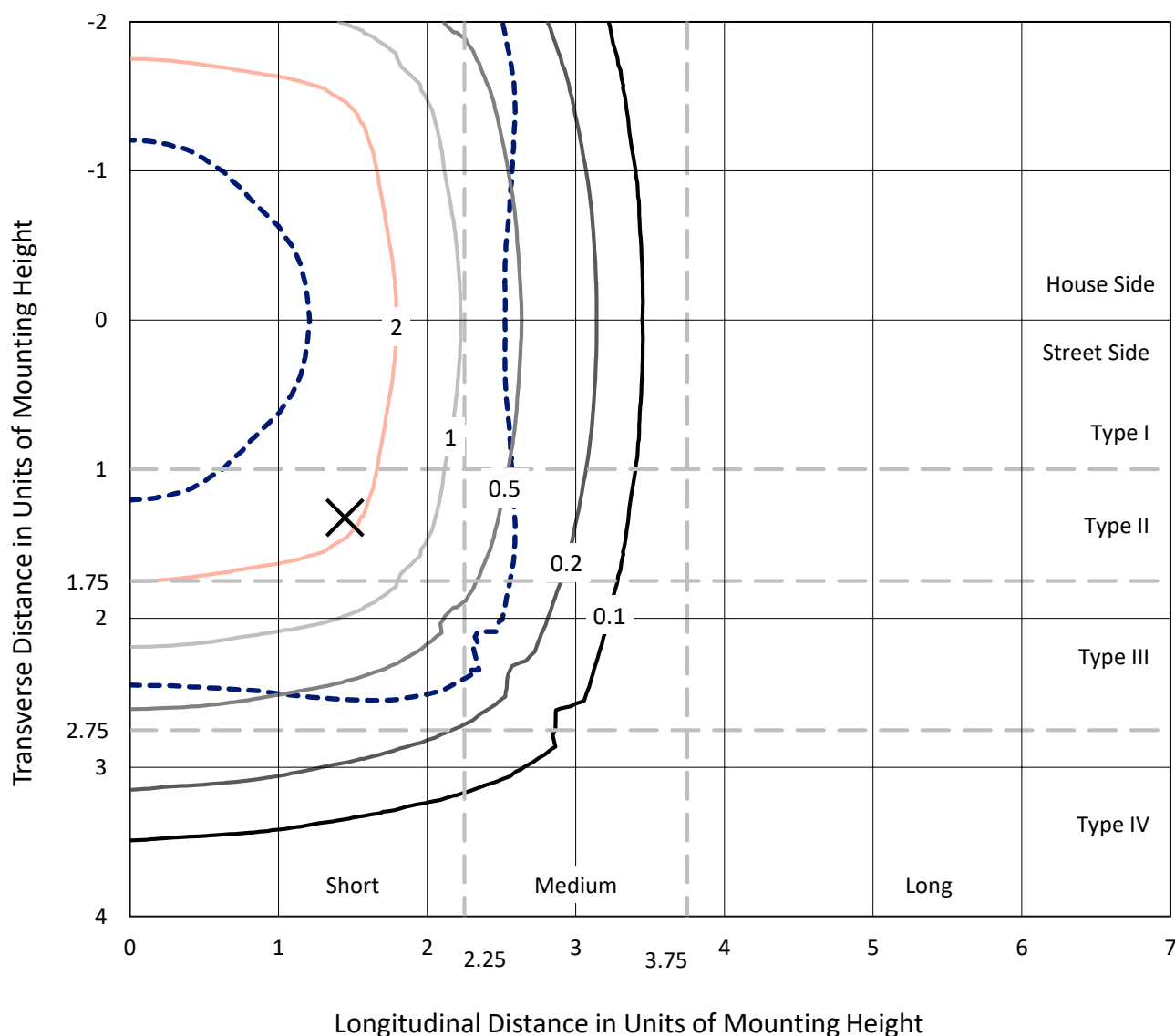
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

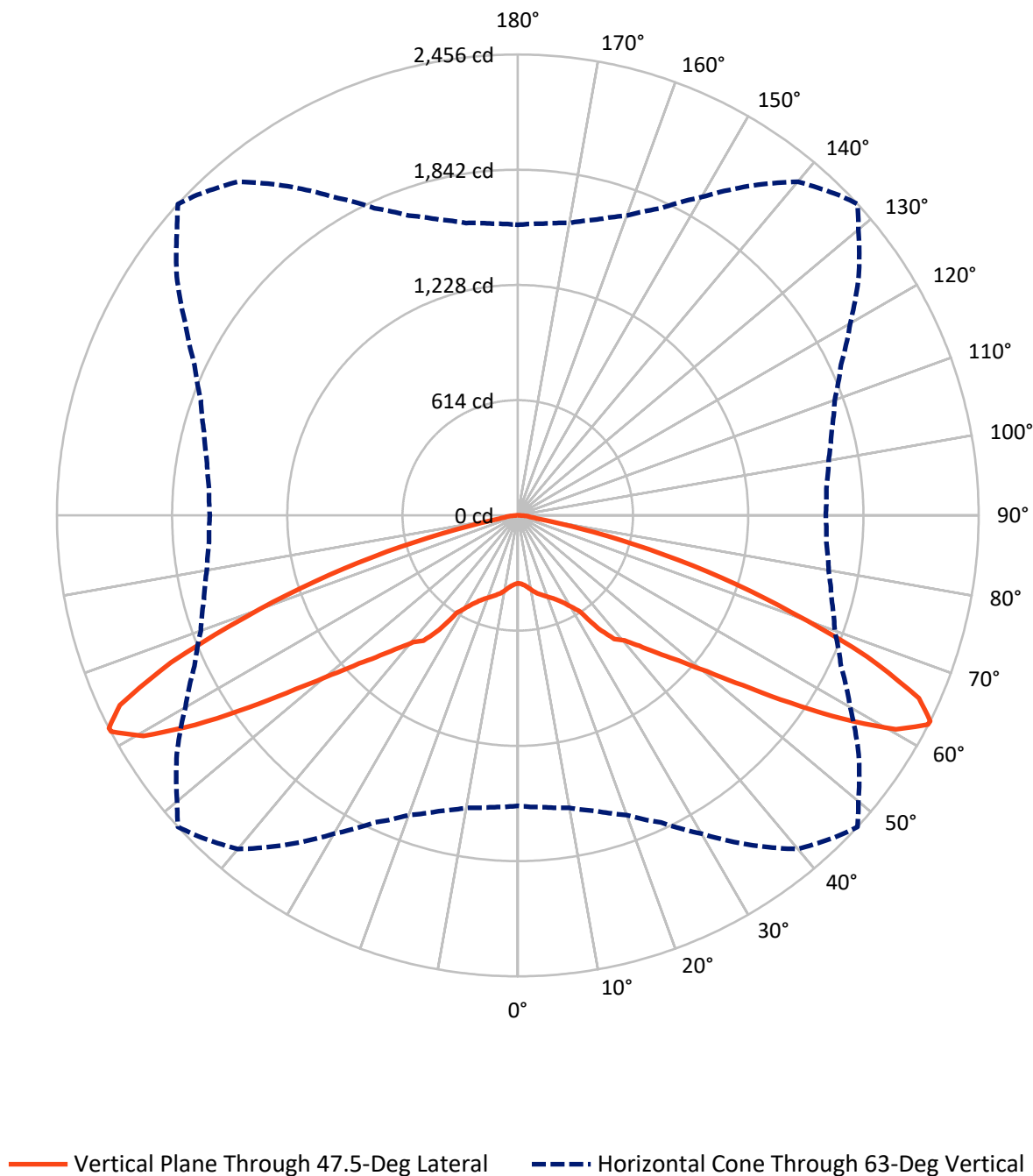


Based on 10 foot mounting height. Maximum calculated value = 4 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2709.7	0.0	2709.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2709.7	0.0	2709.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	5419.4	0.0	5419.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	36.3	0.7
10°-20°	123.5	2.3
20°-30°	236.2	4.4
30°-40°	451.9	8.3
40°-50°	781.9	14.4
50°-60°	1404.2	25.9
60°-70°	1707.6	31.5
70°-80°	616.7	11.4
80°-90°	61.1	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°	5419.4	100.0
0°-180°	5419.4	100.0

Coefficient of Utilization



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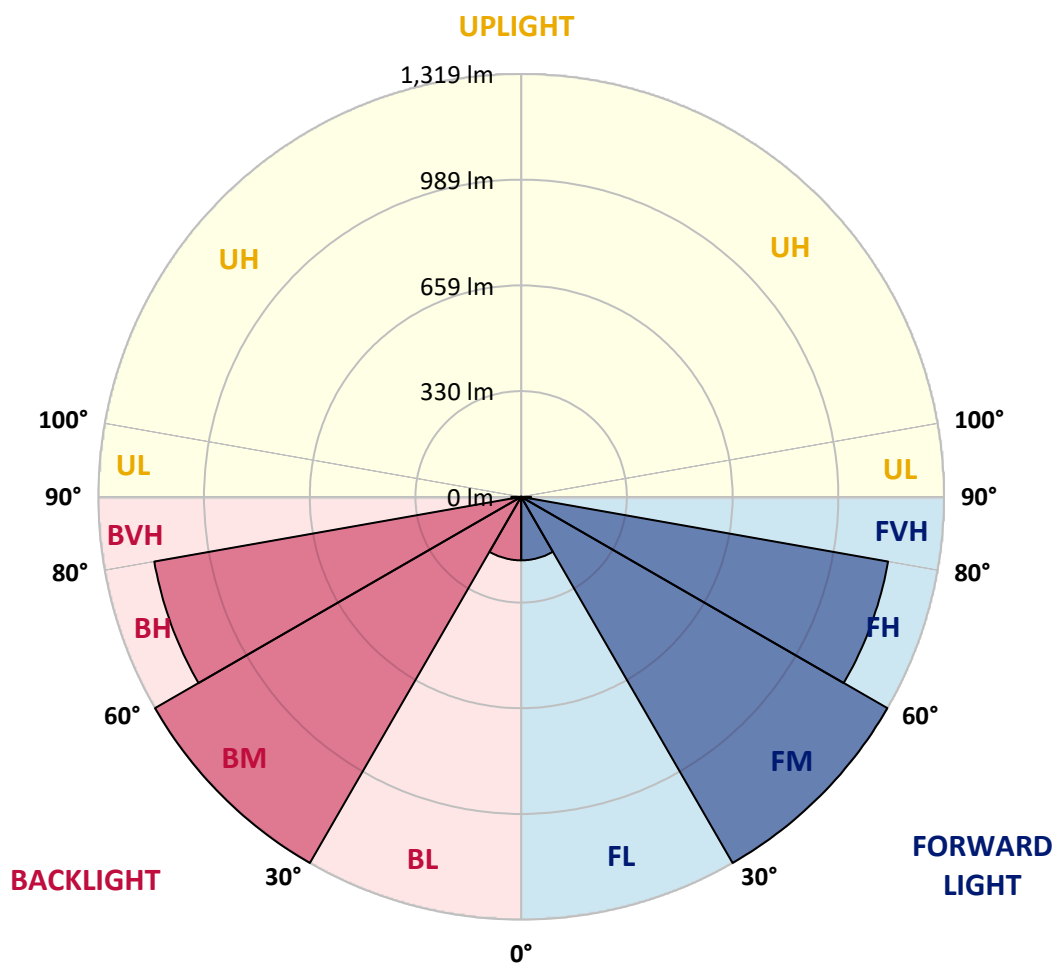
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	198.0	3.7			
FM	(30°-60°)	1319.0	24.3			
FH	(60°-80°)	1162.1	21.4			G1/1800
FVH	(80°-90°)	30.5	0.6			G1/100
BL	(0°-30°)	198.0	3.7	B1/500		
BM	(30°-60°)	1319.0	24.3	B2/2500		
BH	(60°-80°)	1162.1	21.4	B3/2500		G1/1800
BVH	(80°-90°)	30.5	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-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	47.5°
0°	361.9	361.9	361.9	361.9	361.9	361.9	361.9	361.9	361.9	361.9	361.9
2.5°	364.3	363.5	363.9	364.3	363.9	363.5	363.5	363.5	364.3	363.5	365.3
5°	371.3	370.7	371.0	371.0	371.0	370.3	370.3	370.3	370.0	370.3	374.0
7.5°	384.9	383.9	383.6	384.2	383.6	383.2	382.9	382.9	382.2	382.2	386.9
10°	401.2	399.8	400.5	400.9	399.8	399.1	399.1	399.1	398.1	397.8	403.9
12.5°	419.2	418.4	418.4	417.8	417.4	416.8	416.4	416.8	415.4	415.4	421.5
15°	436.4	435.1	435.4	434.4	433.7	433.0	432.7	432.4	431.6	431.6	435.4
17.5°	452.3	451.3	451.0	449.9	449.0	448.0	447.2	446.9	445.9	445.9	449.3
20°	469.0	467.9	467.2	465.5	463.9	462.8	461.5	460.8	459.5	459.8	463.5
22.5°	487.9	486.2	484.9	483.5	480.5	478.4	476.8	475.4	474.7	474.7	479.8
25°	513.3	512.3	510.3	505.9	502.1	499.1	496.4	495.1	493.7	493.0	500.8
27.5°	544.5	543.5	540.8	536.3	531.3	526.2	523.1	520.8	519.1	518.1	529.3
30°	585.8	584.2	581.8	574.7	570.2	562.4	559.1	555.7	551.9	553.0	566.2
32.5°	666.8	664.4	657.0	649.2	635.6	625.1	614.3	606.2	598.4	597.4	611.6
35°	740.3	739.3	738.0	732.5	727.4	721.0	715.9	707.5	700.4	698.6	738.7
37.5°	780.0	782.3	780.3	779.6	779.6	782.7	792.2	801.7	808.4	812.5	834.9
40°	840.7	840.7	838.3	836.9	834.2	838.3	842.3	849.4	852.5	852.8	875.5
42.5°	909.4	909.8	907.4	903.3	902.0	905.7	911.1	917.9	922.0	923.0	949.4
45°	986.0	985.0	982.9	981.6	982.6	986.0	992.5	1005.7	1011.7	1016.5	1045.3
47.5°	1069.0	1075.8	1070.0	1071.1	1071.1	1081.6	1096.1	1106.9	1116.8	1126.0	1156.4
50°	1177.8	1178.8	1179.8	1182.8	1184.9	1198.8	1217.1	1229.9	1244.2	1256.0	1305.8
52.5°	1323.1	1321.1	1326.2	1329.5	1341.1	1348.6	1379.0	1395.3	1415.0	1430.2	1503.1
55°	1496.9	1495.9	1503.4	1506.1	1521.4	1539.7	1573.5	1609.1	1642.6	1661.3	1760.9
57.5°	1621.6	1624.4	1637.2	1655.2	1685.0	1724.0	1774.4	1853.0	1916.8	1937.1	2046.9
60°	1649.1	1657.9	1677.2	1713.1	1764.3	1836.8	1936.1	2056.4	2172.9	2211.9	2314.9
62.5°	1572.2	1582.3	1610.8	1653.8	1720.6	1828.0	1971.3	2141.0	2314.2	2401.0	2452.8
63°	1547.8	1560.3	1581.7	1631.5	1699.3	1805.3	1957.7	2140.7	2320.3	2414.8	2455.5
65°	1433.3	1435.6	1467.5	1517.3	1593.5	1703.6	1857.5	2068.9	2268.1	2377.3	2349.1
67.5°	1233.4	1243.1	1270.0	1320.1	1394.3	1508.8	1675.9	1871.3	2046.5	2133.6	2007.9
70°	996.5	995.8	1029.0	1069.3	1134.7	1235.4	1381.7	1558.3	1697.2	1760.6	1550.2
72.5°	711.9	694.3	718.7	763.4	816.9	897.2	1013.1	1150.3	1274.7	1329.5	1133.4
75°	324.2	319.5	341.2	385.6	439.8	511.3	606.5	725.1	844.4	908.8	722.0
77.5°	109.1	110.5	118.9	134.9	164.0	199.9	259.2	335.1	431.6	495.4	338.8
80°	73.2	75.2	77.9	80.3	83.7	89.1	102.0	121.6	151.4	183.3	107.1
82.5°	60.0	62.3	68.5	71.2	73.2	74.9	75.9	77.3	77.3	77.9	67.7
85°	43.0	47.1	55.2	60.3	62.3	63.7	65.4	67.4	64.4	61.7	52.5
87.5°	14.9	20.3	29.8	32.9	35.2	35.6	37.9	42.0	40.0	32.5	15.9
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°	361.9	361.9	361.9	361.9	361.9	361.9	361.9	361.9	361.9
2.5°	363.5	363.2	363.5	363.9	363.9	363.9	364.3	364.6	364.6
5°	370.3	370.7	370.3	370.7	370.7	371.0	371.0	371.7	371.7
7.5°	381.8	382.6	382.2	382.9	382.9	383.6	383.2	384.2	384.2
10°	397.4	398.1	398.8	399.1	398.8	399.5	400.1	400.5	400.1
12.5°	415.1	415.4	415.1	415.7	415.7	416.4	416.4	417.4	417.4
15°	431.3	431.0	430.7	431.6	432.4	432.7	433.4	434.4	433.4
17.5°	445.9	446.2	445.6	446.6	448.0	449.0	449.6	451.0	450.7
20°	460.5	459.8	460.5	462.2	463.5	464.9	466.3	468.2	467.9
22.5°	474.7	475.4	477.1	478.4	480.8	482.8	484.5	487.3	488.3
25°	494.7	494.7	497.4	499.1	502.5	505.2	508.9	512.0	513.7
27.5°	520.1	520.1	523.1	526.9	532.0	536.7	540.8	544.9	544.1
30°	554.6	556.4	559.1	563.8	570.6	576.4	581.8	585.8	586.2
32.5°	600.1	602.1	610.3	622.4	636.7	647.5	655.6	665.5	666.8
35°	703.1	708.2	718.7	728.5	734.2	740.7	744.7	745.1	745.7
37.5°	811.5	802.7	794.6	787.1	783.7	783.1	783.1	784.4	785.0
40°	851.2	846.7	843.0	838.3	839.6	839.3	841.7	843.7	845.0
42.5°	918.9	915.5	912.1	906.1	909.4	908.4	911.8	914.8	916.6
45°	1013.5	1003.0	995.5	985.7	989.0	987.0	987.0	990.7	991.4
47.5°	1117.8	1105.6	1090.4	1078.1	1074.1	1070.3	1073.8	1073.8	1070.0
50°	1242.8	1228.3	1210.3	1190.6	1183.9	1180.1	1181.5	1183.2	1172.7
52.5°	1412.6	1396.3	1370.9	1341.1	1334.6	1331.6	1330.9	1328.6	1325.8
55°	1642.6	1612.1	1581.0	1541.7	1529.8	1526.5	1526.8	1524.1	1530.5
57.5°	1914.1	1869.3	1797.5	1749.7	1721.3	1710.4	1700.6	1696.5	1696.9
60°	2182.7	2091.6	1984.2	1900.9	1841.2	1803.2	1773.4	1756.9	1752.1
62.5°	2355.9	2212.6	2051.3	1916.1	1818.2	1755.5	1708.4	1678.6	1669.1
63°	2369.5	2217.7	2045.2	1900.1	1797.2	1731.4	1682.0	1651.1	1640.9
65°	2339.9	2166.5	1965.5	1792.7	1679.9	1607.1	1553.5	1524.4	1516.6
67.5°	2110.9	1966.6	1761.9	1583.3	1469.5	1395.7	1334.3	1306.5	1297.7
70°	1717.2	1618.3	1450.6	1298.0	1192.0	1120.9	1058.8	1035.8	1035.5
72.5°	1273.0	1144.6	1044.6	932.8	840.3	783.7	729.8	704.1	691.2
75°	842.0	704.4	592.6	498.4	406.3	355.4	294.8	268.7	253.4
77.5°	424.2	314.5	225.3	156.2	121.3	99.6	91.1	86.8	86.4
80°	141.3	106.1	91.1	85.4	83.7	84.0	83.0	81.3	79.3
82.5°	78.2	82.3	83.0	80.6	80.6	79.3	77.9	71.5	68.1
85°	67.1	73.9	74.5	73.2	72.8	70.8	68.5	59.6	54.5
87.5°	42.0	48.5	47.5	42.4	46.7	43.7	41.3	26.8	19.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)