

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: P157318

Luminaire Tested: **VST-E02-LED-E-U-5MQ-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P157318
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-E02-LED-E-U-5MQ-8030
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE MEDIUM
Light Source: (42) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5399.6 lumens
Efficiency: N/A
Efficacy: 103.6 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): 52.1
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



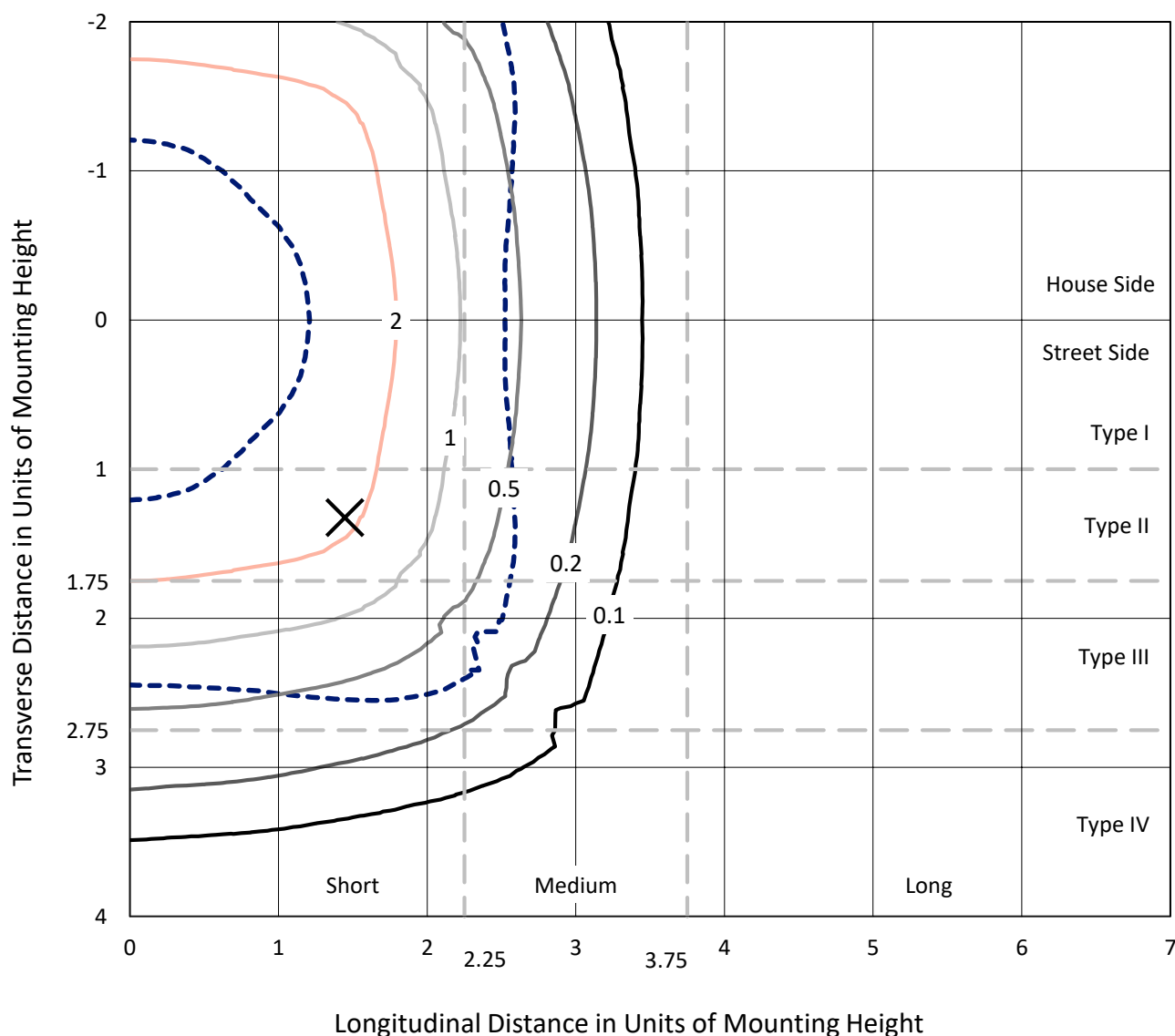
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

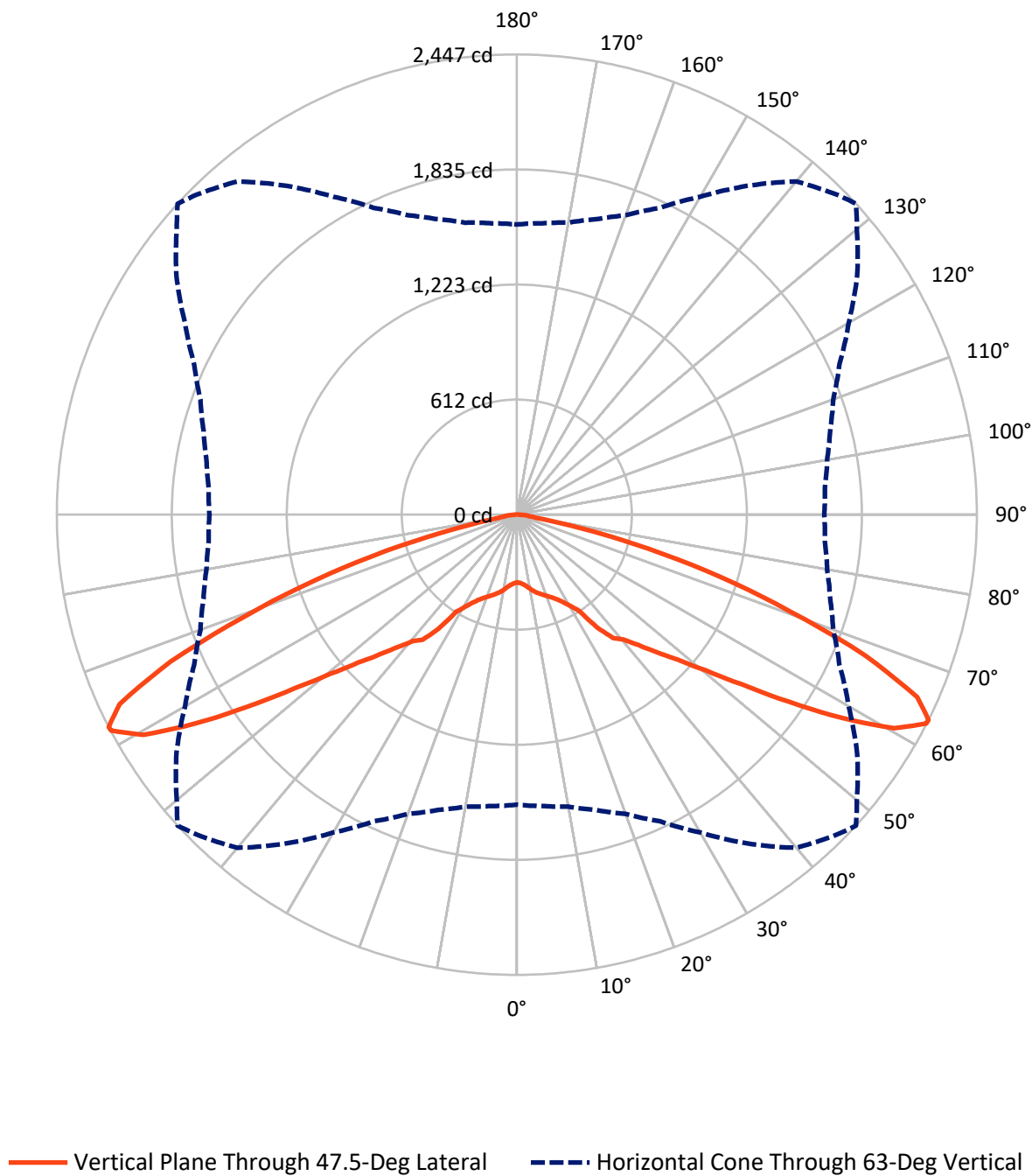


Based on 10 foot mounting height. Maximum calculated value = 4 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2699.8	0.0	2699.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2699.8	0.0	2699.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	5399.6	0.0	5399.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	36.2	0.7
10°-20°	123.0	2.3
20°-30°	235.4	4.4
30°-40°	450.2	8.3
40°-50°	779.0	14.4
50°-60°	1399.1	25.9
60°-70°	1701.3	31.5
70°-80°	614.4	11.4
80°-90°	60.9	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°	5399.6	100.0
0°-180°	5399.6	100.0

Coefficient of Utilization



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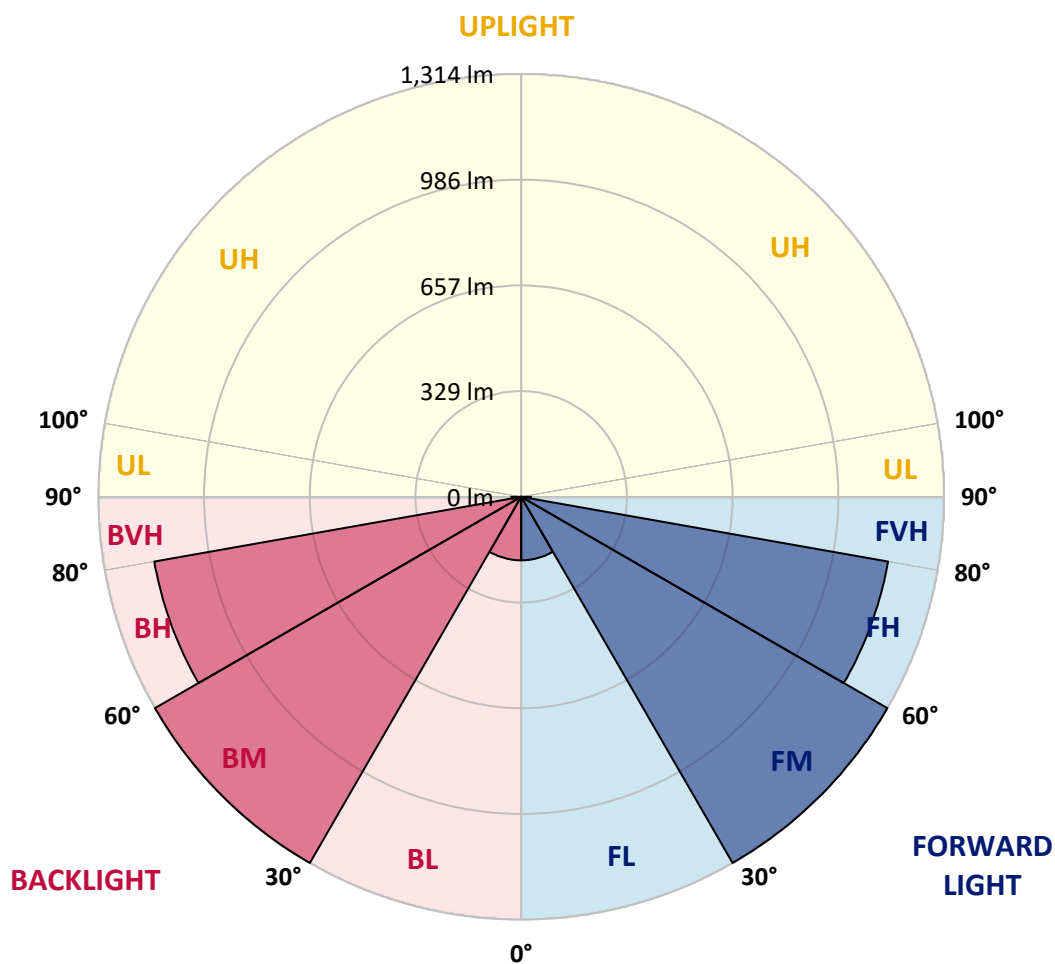
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	197.3	3.7			
FM	(30°-60°)	1314.2	24.3			
FH	(60°-80°)	1157.9	21.4			G1/1800
FVH	(80°-90°)	30.4	0.6			G1/100
BL	(0°-30°)	197.3	3.7	B1/500		
BM	(30°-60°)	1314.2	24.3	B2/2500		
BH	(60°-80°)	1157.9	21.4	B3/2500		G1/1800
BVH	(80°-90°)	30.4	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-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	47.5°
0°	360.5	360.5	360.5	360.5	360.5	360.5	360.5	360.5	360.5	360.5	360.5
2.5°	362.9	362.2	362.6	362.9	362.6	362.2	362.2	362.2	362.9	362.2	363.9
5°	370.0	369.4	369.7	369.7	369.7	369.0	369.0	369.0	368.6	369.0	372.7
7.5°	383.5	382.5	382.1	382.9	382.1	381.8	381.5	381.5	380.8	380.8	385.6
10°	399.7	398.3	399.1	399.4	398.3	397.7	397.7	397.7	396.7	396.4	402.4
12.5°	417.6	416.9	416.9	416.3	415.9	415.3	414.9	415.3	413.9	413.9	419.9
15°	434.8	433.5	433.8	432.8	432.1	431.5	431.1	430.8	430.1	430.1	433.8
17.5°	450.7	449.7	449.3	448.3	447.3	446.3	445.6	445.3	444.3	444.3	447.7
20°	467.2	466.2	465.5	463.9	462.2	461.2	459.8	459.1	457.8	458.1	461.8
22.5°	486.1	484.4	483.1	481.7	478.7	476.7	475.0	473.6	473.0	473.0	478.0
25°	511.4	510.4	508.4	504.1	500.3	497.3	494.6	493.2	491.9	491.2	499.0
27.5°	542.5	541.5	538.8	534.4	529.4	524.3	521.2	518.9	517.2	516.2	527.3
30°	583.7	582.0	579.7	572.6	568.2	560.4	557.0	553.7	550.0	551.0	564.1
32.5°	664.4	662.0	654.6	646.9	633.4	622.9	612.1	604.0	596.2	595.2	609.4
35°	737.6	736.6	735.3	729.9	724.8	718.4	713.3	704.9	697.8	696.1	736.0
37.5°	777.1	779.5	777.5	776.8	776.8	779.8	789.3	798.8	805.5	809.6	831.8
40°	837.6	837.6	835.2	833.9	831.2	835.2	839.3	846.4	849.4	849.7	872.3
42.5°	906.1	906.4	904.1	900.1	898.7	902.4	907.8	914.5	918.6	919.6	946.0
45°	982.4	981.4	979.4	978.0	979.0	982.4	988.8	1002.0	1008.1	1012.8	1041.5
47.5°	1065.1	1071.8	1066.1	1067.2	1067.2	1077.6	1092.1	1102.9	1112.7	1121.8	1152.2
50°	1173.5	1174.5	1175.5	1178.5	1180.6	1194.4	1212.7	1225.5	1239.7	1251.5	1301.1
52.5°	1318.3	1316.3	1321.4	1324.7	1336.2	1343.6	1374.0	1390.2	1409.8	1425.0	1497.6
55°	1491.5	1490.5	1497.9	1500.6	1515.8	1534.0	1567.8	1603.3	1636.7	1655.2	1754.5
57.5°	1615.7	1618.4	1631.3	1649.2	1678.9	1717.7	1768.0	1846.3	1909.8	1930.0	2039.4
60°	1643.1	1651.9	1671.1	1706.9	1757.9	1830.1	1929.0	2048.9	2165.0	2203.8	2306.5
62.5°	1566.4	1576.6	1604.9	1647.8	1714.3	1821.4	1964.2	2133.3	2305.8	2392.2	2443.9
63°	1542.1	1554.7	1575.9	1625.5	1693.0	1798.7	1950.7	2132.9	2311.9	2406.1	2446.6
65°	1428.1	1430.4	1462.1	1511.8	1587.7	1697.5	1850.7	2061.4	2259.9	2368.6	2340.5
67.5°	1228.9	1238.6	1265.3	1315.3	1389.2	1503.3	1669.7	1864.6	2039.1	2125.9	2000.6
70°	992.9	992.2	1025.3	1065.5	1130.6	1230.9	1376.7	1552.6	1691.0	1754.2	1544.5
72.5°	709.3	691.7	716.0	760.6	814.0	893.9	1009.4	1146.1	1270.0	1324.7	1129.3
75°	323.1	318.4	340.0	384.2	438.2	509.5	604.3	722.5	841.3	905.5	719.4
77.5°	108.7	110.0	118.5	134.3	163.4	199.2	258.2	333.9	430.1	493.6	337.6
80°	72.9	74.9	77.6	80.0	83.4	88.8	101.6	121.2	150.9	182.6	106.7
82.5°	59.8	62.1	68.2	70.9	72.9	74.6	75.6	77.0	77.0	77.6	67.5
85°	42.9	46.9	55.0	60.1	62.1	63.5	65.2	67.2	64.1	61.4	52.3
87.5°	14.9	20.3	29.7	32.8	35.1	35.5	37.8	41.9	39.8	32.4	15.8
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°	360.5	360.5	360.5	360.5	360.5	360.5	360.5	360.5	360.5
2.5°	362.2	361.9	362.2	362.6	362.6	362.6	362.9	363.2	363.2
5°	369.0	369.4	369.0	369.4	369.4	369.7	369.7	370.3	370.3
7.5°	380.5	381.1	380.8	381.5	381.5	382.1	381.8	382.9	382.9
10°	396.0	396.7	397.4	397.7	397.4	398.0	398.7	399.1	398.7
12.5°	413.6	413.9	413.6	414.2	414.2	414.9	414.9	415.9	415.9
15°	429.8	429.4	429.1	430.1	430.8	431.1	431.8	432.8	431.8
17.5°	444.3	444.6	443.9	445.0	446.3	447.3	448.0	449.3	449.0
20°	458.8	458.1	458.8	460.5	461.8	463.2	464.5	466.6	466.2
22.5°	473.0	473.6	475.3	476.7	479.0	481.1	482.8	485.5	486.5
25°	492.9	492.9	495.6	497.3	500.6	503.3	507.1	510.1	511.8
27.5°	518.2	518.2	521.2	524.9	530.0	534.8	538.8	542.9	542.2
30°	552.7	554.3	557.0	561.8	568.5	574.3	579.7	583.7	584.0
32.5°	597.9	599.9	608.0	620.2	634.3	645.1	653.2	663.1	664.4
35°	700.5	705.6	716.0	725.8	731.6	738.0	742.0	742.4	743.0
37.5°	808.6	799.7	791.6	784.3	780.8	780.2	780.2	781.6	782.2
40°	848.0	843.7	839.9	835.2	836.6	836.2	838.6	840.6	842.0
42.5°	915.5	912.2	908.8	902.8	906.1	905.1	908.5	911.5	913.2
45°	1009.7	999.3	991.9	982.1	985.4	983.4	983.4	987.1	987.8
47.5°	1113.7	1101.6	1086.4	1074.2	1070.2	1066.4	1069.9	1069.9	1066.1
50°	1238.3	1223.8	1205.9	1186.3	1179.5	1175.8	1177.2	1178.9	1168.4
52.5°	1407.4	1391.2	1365.9	1336.2	1329.8	1326.8	1326.1	1323.7	1321.0
55°	1636.7	1606.3	1575.2	1536.1	1524.2	1520.9	1521.2	1518.5	1524.9
57.5°	1907.1	1862.5	1790.9	1743.4	1715.0	1704.2	1694.4	1690.3	1690.7
60°	2174.8	2084.0	1976.9	1893.9	1834.5	1796.7	1767.0	1750.4	1745.7
62.5°	2347.3	2204.5	2043.8	1909.1	1811.5	1749.1	1702.1	1672.4	1663.0
63°	2360.8	2209.6	2037.7	1893.2	1790.6	1725.1	1675.8	1645.1	1635.0
65°	2331.4	2158.6	1958.4	1786.2	1673.8	1601.2	1547.9	1518.8	1511.1
67.5°	2103.2	1959.4	1755.5	1577.6	1464.2	1390.6	1329.5	1301.8	1293.0
70°	1711.0	1612.4	1445.3	1293.4	1187.6	1116.8	1055.0	1032.1	1031.7
72.5°	1268.3	1140.4	1040.8	929.4	837.2	780.8	727.2	701.5	688.7
75°	838.9	701.9	590.5	496.6	404.8	354.1	293.7	267.7	252.5
77.5°	422.7	313.3	224.5	155.6	120.8	99.2	90.8	86.4	86.1
80°	140.8	105.7	90.8	85.1	83.4	83.7	82.7	81.0	79.0
82.5°	78.0	82.0	82.7	80.3	80.3	79.0	77.6	71.2	67.9
85°	66.8	73.6	74.3	72.9	72.6	70.6	68.2	59.4	54.4
87.5°	41.9	48.3	47.3	42.2	46.6	43.6	41.2	26.7	19.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)