

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: P157325

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P157325
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
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE MEDIUM
Light Source: (14) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5281.5 lumens
Efficiency: N/A
Efficacy: 96.0 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

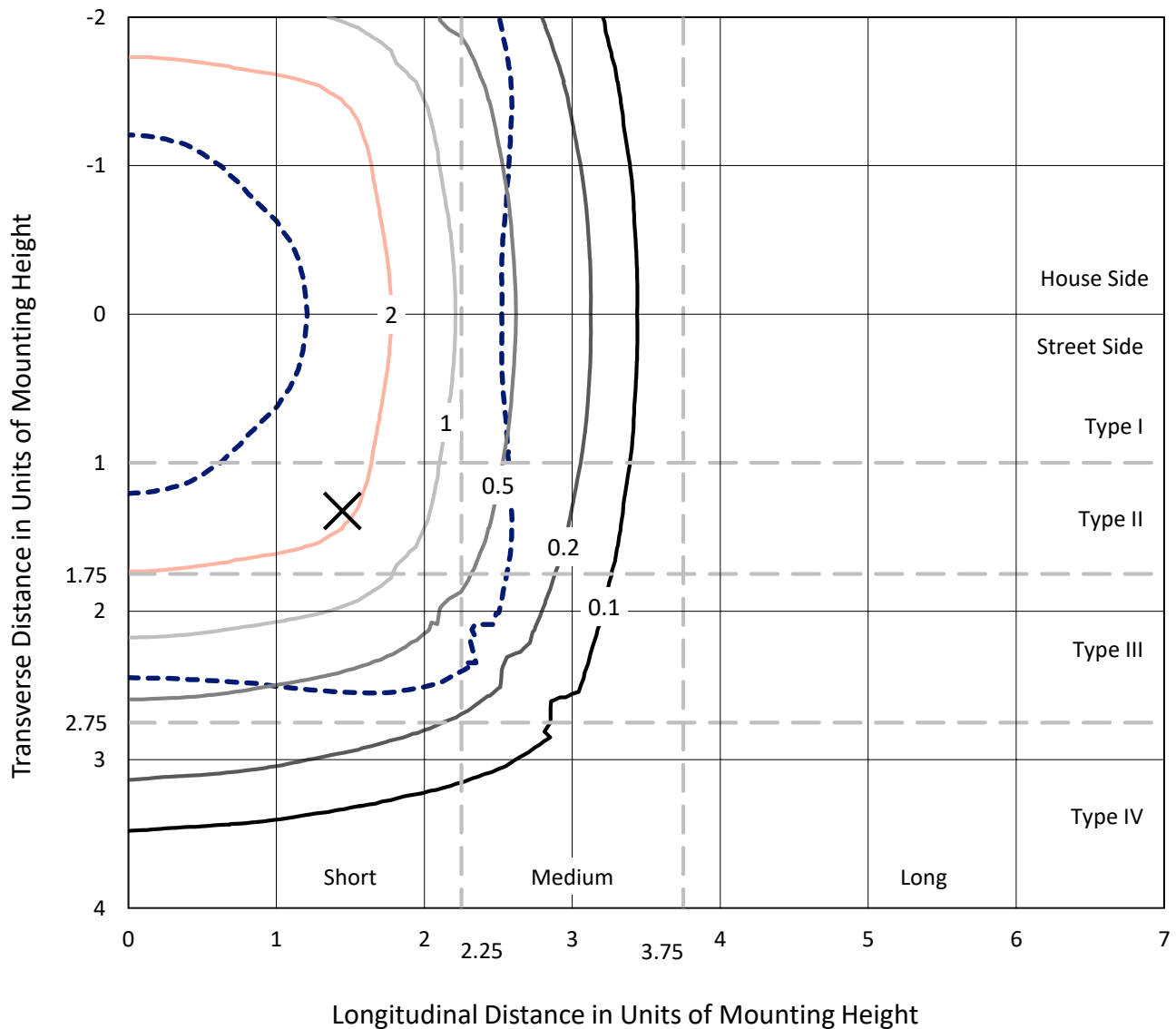


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

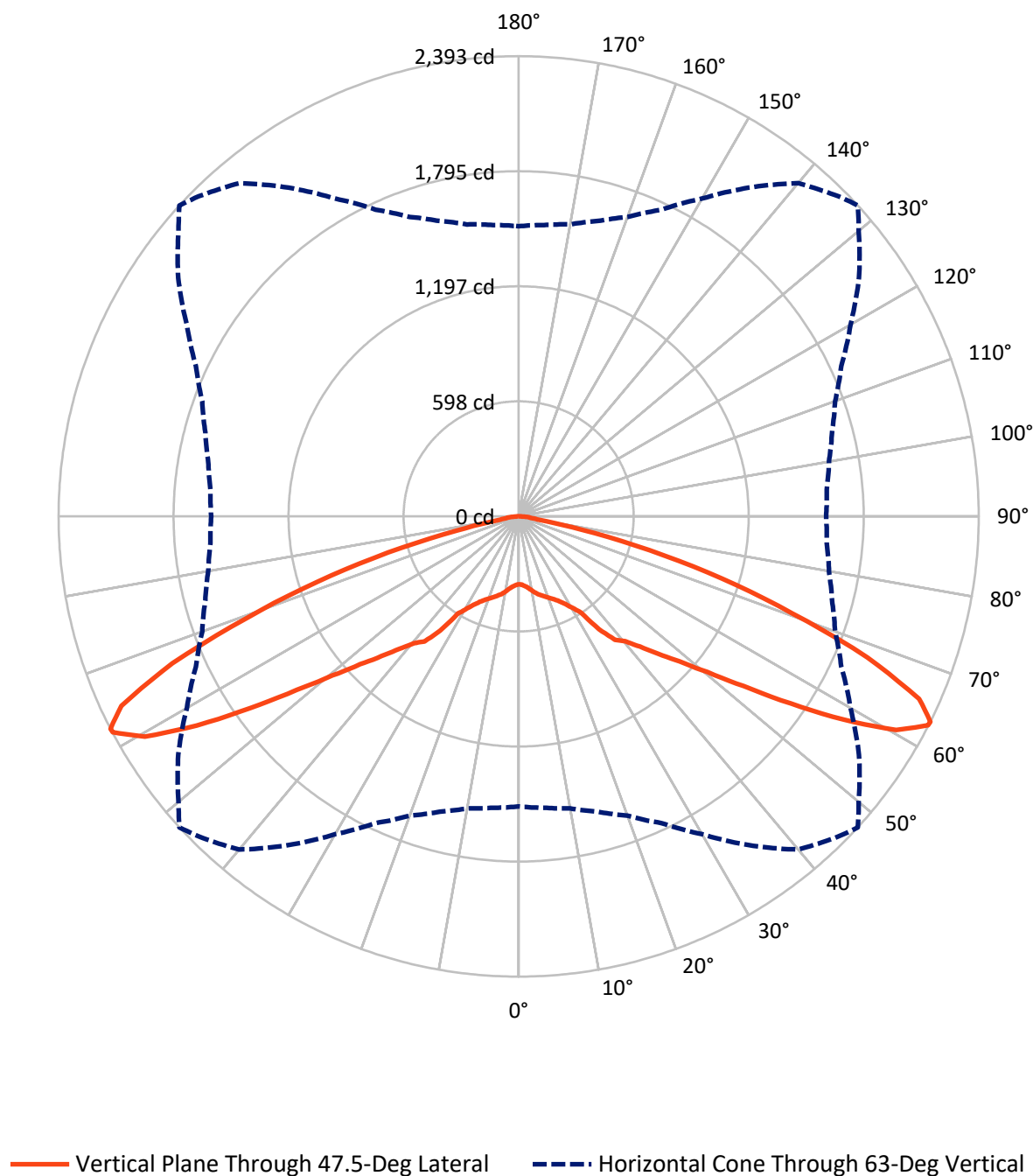


Based on 10 foot mounting height. Maximum calculated value = 3.9 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2640.7	0.0	2640.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2640.7	0.0	2640.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	5281.5	0.0	5281.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	35.4	0.7
10°-20°	120.4	2.3
20°-30°	230.2	4.4
30°-40°	440.4	8.3
40°-50°	762.0	14.4
50°-60°	1368.5	25.9
60°-70°	1664.1	31.5
70°-80°	601.0	11.4
80°-90°	59.5	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°	5281.5	100.0
0°-180°	5281.5	100.0

Coefficient of Utilization



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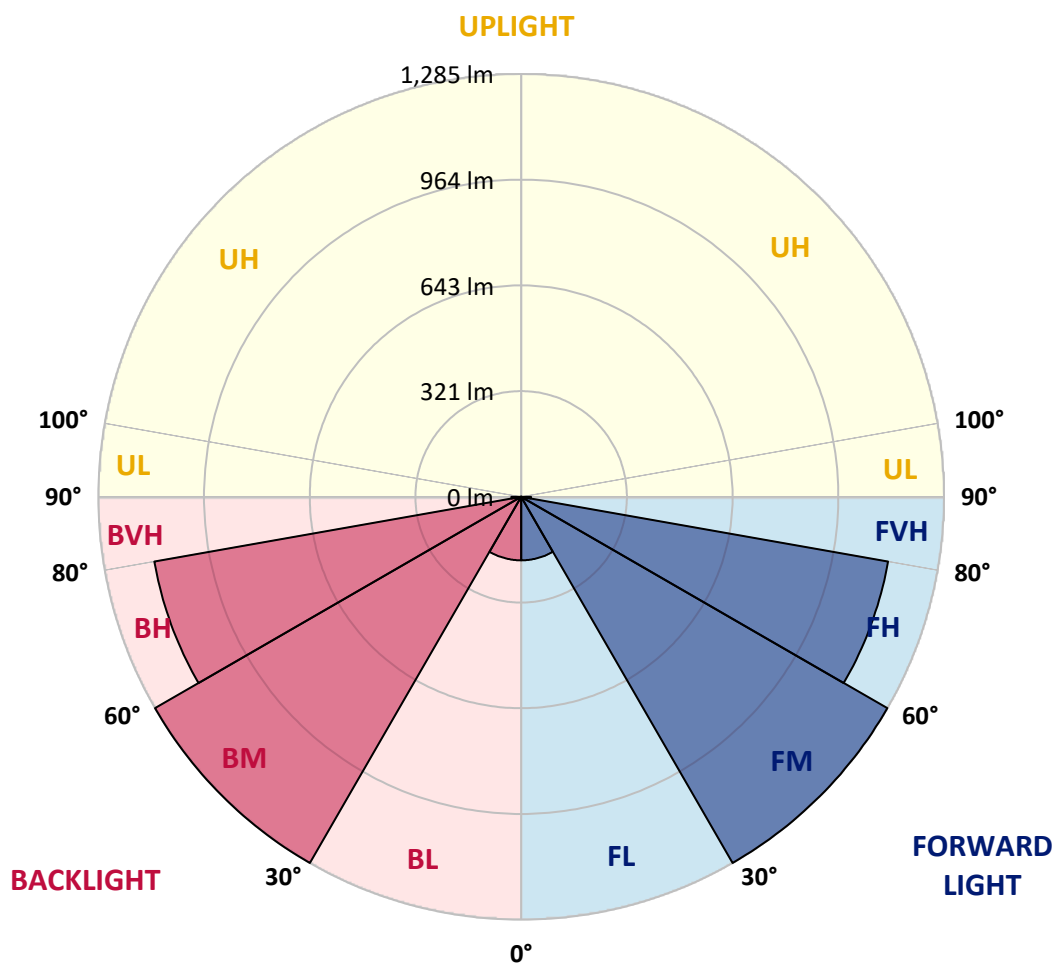
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	193.0	3.7			
FM	(30°-60°)	1285.4	24.3			
FH	(60°-80°)	1132.6	21.4			G1/1800
FVH	(80°-90°)	29.8	0.6			G1/100
BL	(0°-30°)	193.0	3.7	B1/500		
BM	(30°-60°)	1285.4	24.3	B2/2500		
BH	(60°-80°)	1132.6	21.4	B3/2500		G1/1800
BVH	(80°-90°)	29.8	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	47.5°
0°	352.7	352.7	352.7	352.7	352.7	352.7	352.7	352.7	352.7	352.7	352.7
2.5°	355.0	354.3	354.7	355.0	354.7	354.3	354.3	354.3	355.0	354.3	356.0
5°	361.9	361.3	361.6	361.6	361.6	360.9	360.9	360.9	360.6	360.9	364.6
7.5°	375.1	374.1	373.8	374.5	373.8	373.4	373.1	373.1	372.5	372.5	377.1
10°	391.0	389.6	390.3	390.7	389.6	389.0	389.0	389.0	388.0	387.7	393.6
12.5°	408.5	407.8	407.8	407.2	406.8	406.1	405.8	406.1	404.8	404.8	410.8
15°	425.3	424.0	424.3	423.3	422.6	422.0	421.7	421.3	420.7	420.7	424.3
17.5°	440.8	439.9	439.5	438.5	437.5	436.6	435.9	435.5	434.6	434.6	437.9
20°	457.0	456.0	455.3	453.7	452.0	451.1	449.8	449.1	447.8	448.1	451.7
22.5°	475.5	473.9	472.6	471.2	468.2	466.3	464.6	463.3	462.6	462.6	467.6
25°	500.3	499.3	497.3	493.0	489.4	486.4	483.8	482.5	481.1	480.5	488.0
27.5°	530.6	529.7	527.0	522.7	517.7	512.8	509.8	507.5	505.9	504.9	515.8
30°	571.0	569.3	567.0	560.0	555.7	548.2	544.9	541.6	537.9	538.9	551.8
32.5°	649.9	647.5	640.3	632.7	619.5	609.2	598.7	590.8	583.1	582.2	596.0
35°	721.5	720.5	719.2	713.9	709.0	702.7	697.7	689.5	682.6	680.9	719.9
37.5°	760.1	762.5	760.5	759.8	759.8	762.8	772.0	781.3	787.9	791.8	813.7
40°	819.2	819.2	817.0	815.6	813.0	817.0	820.9	827.8	830.8	831.1	853.3
42.5°	886.3	886.6	884.3	880.3	879.0	882.7	887.9	894.5	898.5	899.5	925.3
45°	960.9	959.9	958.0	956.6	957.6	960.9	967.2	980.0	986.0	990.6	1018.7
47.5°	1041.8	1048.4	1042.8	1043.8	1043.8	1054.0	1068.2	1078.8	1088.4	1097.3	1127.0
50°	1147.8	1148.8	1149.8	1152.8	1154.8	1168.3	1186.1	1198.7	1212.5	1224.1	1272.6
52.5°	1289.5	1287.5	1292.5	1295.8	1307.0	1314.2	1343.9	1359.8	1379.0	1393.8	1464.8
55°	1458.8	1457.9	1465.1	1467.8	1482.7	1500.5	1533.5	1568.2	1600.9	1619.0	1716.1
57.5°	1580.4	1583.0	1595.6	1613.1	1642.1	1680.1	1729.3	1805.9	1868.0	1887.8	1994.8
60°	1607.2	1615.7	1634.5	1669.6	1719.4	1790.0	1886.8	2004.1	2117.6	2155.6	2256.0
62.5°	1532.2	1542.1	1569.8	1611.8	1676.8	1781.5	1921.1	2086.6	2255.3	2339.9	2390.4
63°	1508.4	1520.6	1541.4	1589.9	1656.0	1759.4	1907.9	2086.3	2261.3	2353.4	2393.0
65°	1396.8	1399.1	1430.2	1478.7	1553.0	1660.3	1810.2	2016.2	2210.4	2316.8	2289.4
67.5°	1202.0	1211.5	1237.6	1286.5	1358.8	1470.4	1633.2	1823.8	1994.5	2079.4	1956.8
70°	971.2	970.5	1002.8	1042.1	1105.9	1204.0	1346.6	1518.7	1654.0	1715.8	1510.7
72.5°	693.8	676.6	700.4	743.9	796.1	874.4	987.3	1121.0	1242.2	1295.8	1104.5
75°	316.0	311.4	332.5	375.8	428.6	498.3	591.1	706.6	822.9	885.6	703.7
77.5°	106.3	107.6	115.9	131.4	159.8	194.8	252.6	326.6	420.7	482.8	330.2
80°	71.3	73.3	76.0	78.2	81.5	86.8	99.4	118.6	147.6	178.6	104.3
82.5°	58.4	60.8	66.7	69.4	71.3	73.0	74.0	75.3	75.3	76.0	66.1
85°	41.9	45.9	53.8	58.8	60.8	62.1	63.7	65.7	62.8	60.1	51.2
87.5°	14.5	19.8	29.0	32.0	34.3	34.7	37.0	40.9	38.9	31.7	15.5
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°	352.7	352.7	352.7	352.7	352.7	352.7	352.7	352.7	352.7
2.5°	354.3	354.0	354.3	354.7	354.7	354.7	355.0	355.3	355.3
5°	360.9	361.3	360.9	361.3	361.3	361.6	361.6	362.2	362.2
7.5°	372.1	372.8	372.5	373.1	373.1	373.8	373.4	374.5	374.5
10°	387.4	388.0	388.7	389.0	388.7	389.3	390.0	390.3	390.0
12.5°	404.5	404.8	404.5	405.2	405.2	405.8	405.8	406.8	406.8
15°	420.4	420.0	419.7	420.7	421.3	421.7	422.3	423.3	422.3
17.5°	434.6	434.9	434.2	435.2	436.6	437.5	438.2	439.5	439.2
20°	448.7	448.1	448.7	450.4	451.7	453.1	454.4	456.4	456.0
22.5°	462.6	463.3	464.9	466.3	468.5	470.5	472.2	474.8	475.9
25°	482.1	482.1	484.7	486.4	489.7	492.4	496.0	499.0	500.6
27.5°	506.9	506.9	509.8	513.5	518.4	523.1	527.0	531.0	530.3
30°	540.5	542.2	544.9	549.5	556.1	561.7	567.0	571.0	571.3
32.5°	584.8	586.8	594.7	606.6	620.5	631.0	638.9	648.5	649.9
35°	685.2	690.1	700.4	710.0	715.6	721.9	725.8	726.1	726.8
37.5°	790.9	782.3	774.4	767.1	763.8	763.1	763.1	764.5	765.1
40°	829.5	825.2	821.6	817.0	818.3	817.9	820.3	822.2	823.6
42.5°	895.5	892.2	888.9	883.0	886.3	885.3	888.6	891.5	893.2
45°	987.7	977.4	970.1	960.6	963.9	961.9	961.9	965.5	966.2
47.5°	1089.4	1077.5	1062.6	1050.7	1046.8	1043.2	1046.5	1046.5	1042.8
50°	1211.2	1197.0	1179.5	1160.3	1153.7	1150.1	1151.5	1153.1	1142.9
52.5°	1376.6	1360.8	1336.0	1307.0	1300.7	1297.7	1297.1	1294.7	1292.1
55°	1600.9	1571.2	1540.7	1502.5	1490.9	1487.6	1487.9	1485.3	1491.5
57.5°	1865.3	1821.8	1751.8	1705.2	1677.5	1666.9	1657.3	1653.4	1653.7
60°	2127.2	2038.4	1933.7	1852.5	1794.4	1757.4	1728.3	1712.2	1707.5
62.5°	2296.0	2156.3	1999.1	1867.3	1771.9	1710.8	1664.9	1635.8	1626.6
63°	2309.2	2161.2	1993.1	1851.8	1751.5	1687.4	1639.1	1609.1	1599.2
65°	2280.4	2111.3	1915.6	1747.1	1637.2	1566.2	1514.0	1485.6	1478.0
67.5°	2057.2	1916.5	1717.1	1543.1	1432.1	1360.1	1300.4	1273.3	1264.7
70°	1673.5	1577.1	1413.6	1265.0	1161.7	1092.4	1031.9	1009.4	1009.1
72.5°	1240.6	1115.5	1018.0	909.1	818.9	763.8	711.3	686.2	673.6
75°	820.6	686.5	577.6	485.8	395.9	346.4	287.3	261.8	247.0
77.5°	413.4	306.4	219.6	152.2	118.2	97.1	88.8	84.5	84.2
80°	137.7	103.4	88.8	83.2	81.5	81.9	80.9	79.3	77.3
82.5°	76.3	80.2	80.9	78.6	78.6	77.3	76.0	69.7	66.4
85°	65.4	72.0	72.7	71.3	71.0	69.0	66.7	58.1	53.2
87.5°	40.9	47.2	46.2	41.3	45.5	42.6	40.3	26.1	19.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)