

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: P157324

Luminaire Tested: **VST-F02-LED-E-U-5MQ-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P157324
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-7030
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE MEDIUM
Light Source: (14) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4823.8 lumens
Efficiency: N/A
Efficacy: 87.7 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

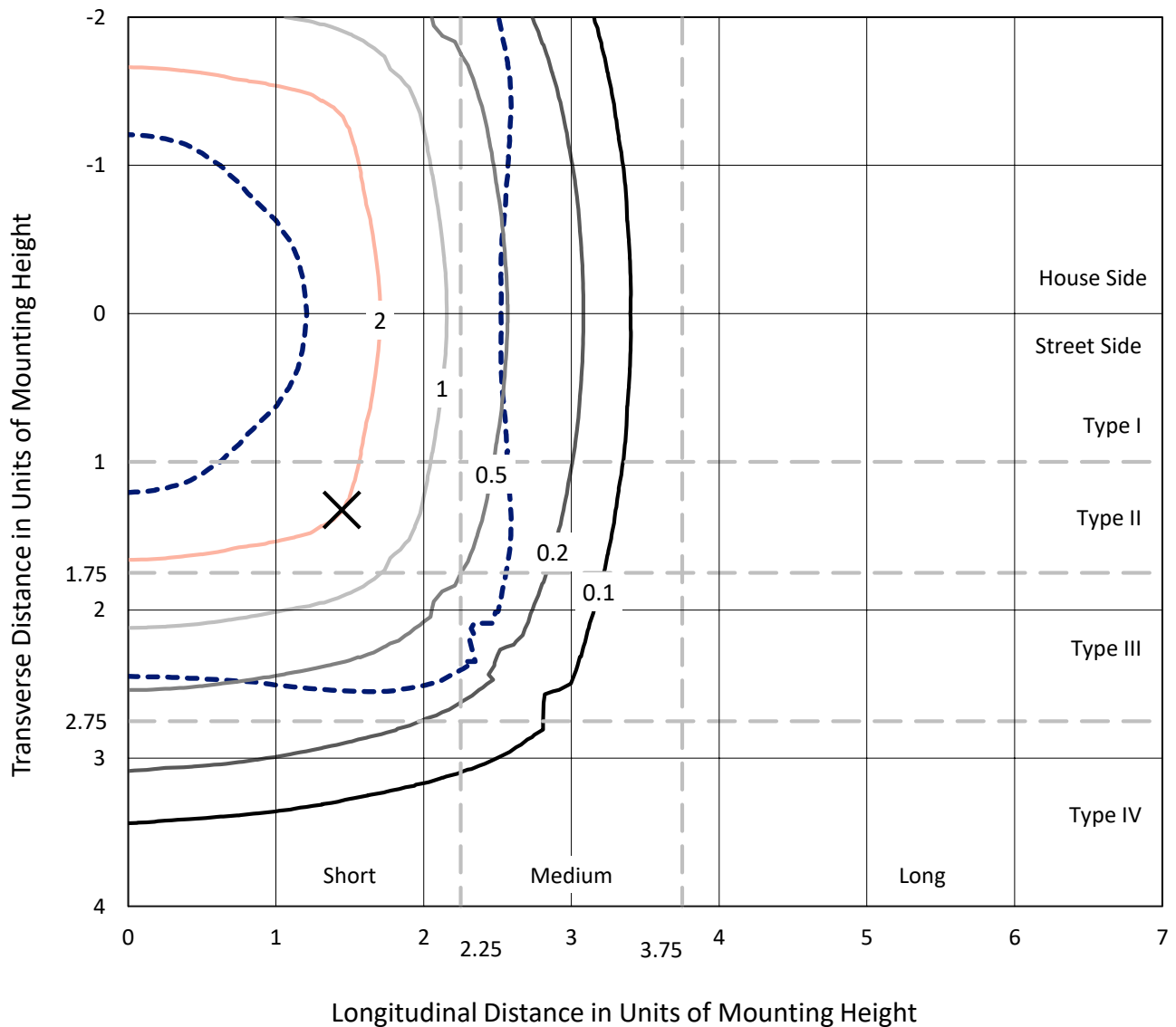
Input Watts (W): 55
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

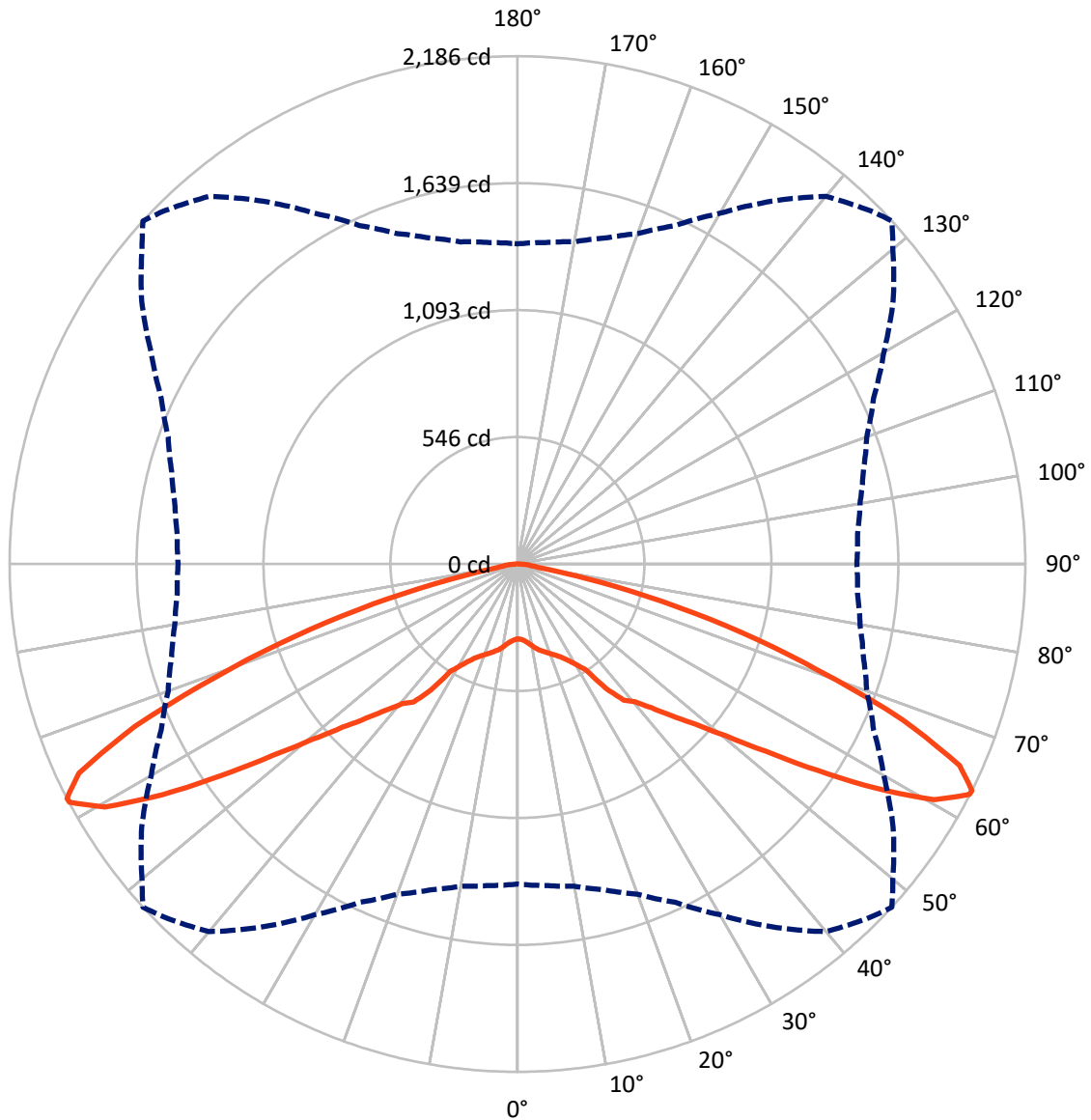
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 3.5 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 47.5-Deg Lateral - - - Horizontal Cone Through 63-Deg Vertical

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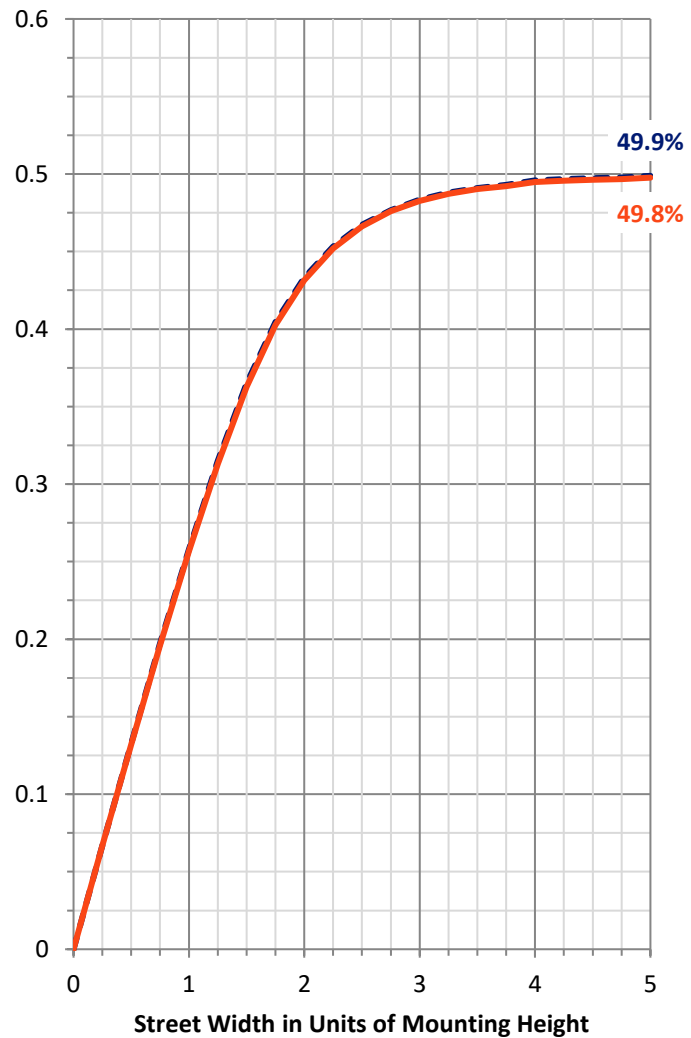
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2411.9	0.0	2411.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2411.9	0.0	2411.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	4823.8	0.0	4823.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	32.3	0.7
10°-20°	109.9	2.3
20°-30°	210.3	4.4
30°-40°	402.2	8.3
40°-50°	696.0	14.4
50°-60°	1249.9	25.9
60°-70°	1519.9	31.5
70°-80°	548.9	11.4
80°-90°	54.4	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°	4823.8	100.0
0°-180°	4823.8	100.0



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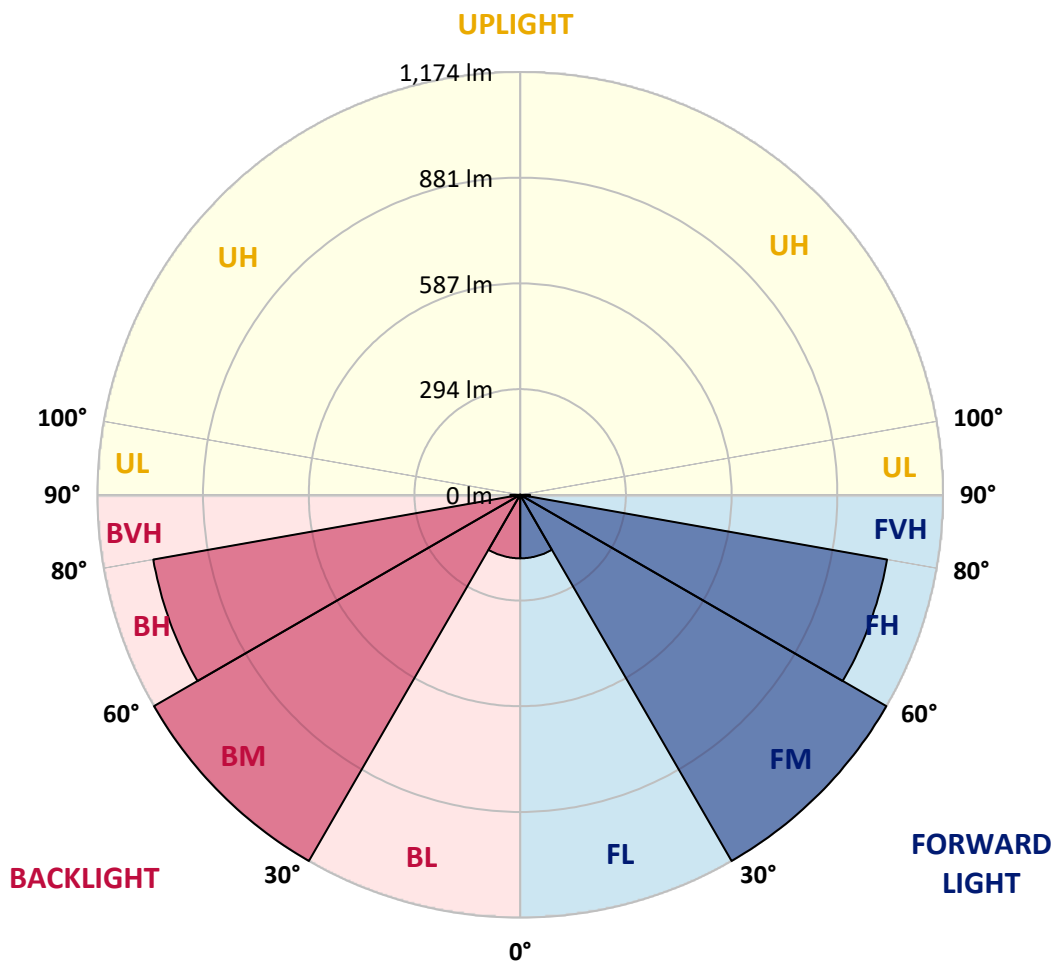
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	176.3	3.7			
FM (30°-60°)	1174.1	24.3			
FH (60°-80°)	1034.4	21.4			G1/1800
FVH (80°-90°)	27.2	0.6			G1/100
BL (0°-30°)	176.3	3.7	B1/500		
BM (30°-60°)	1174.1	24.3	B2/2500		
BH (60°-80°)	1034.4	21.4	B3/2500		G1/1800
BVH (80°-90°)	27.2	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°	322.1	322.1	322.1	322.1	322.1	322.1	322.1	322.1	322.1	322.1	322.1
2.5°	324.2	323.6	323.9	324.2	323.9	323.6	323.6	323.6	324.2	323.6	325.1
5°	330.5	329.9	330.2	330.2	330.2	329.6	329.6	329.6	329.3	329.6	332.9
7.5°	342.6	341.7	341.4	342.0	341.4	341.1	340.8	340.8	340.2	340.2	344.4
10°	357.1	355.9	356.5	356.8	355.9	355.3	355.3	355.3	354.4	354.1	359.5
12.5°	373.1	372.5	372.5	371.9	371.6	371.0	370.7	371.0	369.8	369.8	375.2
15°	388.4	387.2	387.5	386.6	386.0	385.4	385.1	384.8	384.2	384.2	387.5
17.5°	402.7	401.7	401.4	400.5	399.6	398.7	398.1	397.8	396.9	396.9	399.9
20°	417.4	416.5	415.9	414.4	412.9	412.0	410.8	410.2	409.0	409.3	412.6
22.5°	434.3	432.8	431.6	430.4	427.7	425.9	424.3	423.1	422.5	422.5	427.1
25°	456.9	456.0	454.2	450.3	446.9	444.2	441.8	440.6	439.4	438.8	445.7
27.5°	484.7	483.8	481.3	477.4	472.9	468.4	465.7	463.6	462.1	461.2	471.1
30°	521.5	520.0	517.9	511.5	507.6	500.6	497.6	494.6	491.3	492.2	503.9
32.5°	593.5	591.4	584.8	577.9	565.8	556.4	546.8	539.6	532.6	531.7	544.4
35°	659.0	658.1	656.9	652.1	647.5	641.8	637.3	629.8	623.4	621.9	657.5
37.5°	694.3	696.4	694.6	694.0	694.0	696.7	705.1	713.6	719.6	723.2	743.2
40°	748.3	748.3	746.2	745.0	742.6	746.2	749.8	756.1	758.8	759.1	779.3
42.5°	809.5	809.8	807.7	804.1	802.9	806.2	811.0	817.0	820.6	821.6	845.1
45°	877.6	876.7	874.9	873.7	874.6	877.6	883.4	895.1	900.5	904.8	930.4
47.5°	951.5	957.6	952.4	953.3	953.3	962.7	975.7	985.3	994.1	1002.2	1029.4
50°	1048.4	1049.3	1050.2	1052.9	1054.7	1067.0	1083.4	1094.8	1107.5	1118.0	1162.4
52.5°	1177.7	1175.9	1180.4	1183.4	1193.7	1200.4	1227.5	1242.0	1259.5	1273.0	1337.9
55°	1332.5	1331.6	1338.2	1340.6	1354.2	1370.5	1400.6	1432.3	1462.1	1478.8	1567.4
57.5°	1443.4	1445.9	1457.3	1473.3	1499.8	1534.5	1579.4	1649.5	1706.2	1724.2	1822.0
60°	1467.9	1475.7	1492.9	1524.9	1570.4	1634.9	1723.3	1830.4	1934.2	1968.8	2060.5
62.5°	1399.4	1408.4	1433.8	1472.1	1531.5	1627.1	1754.7	1905.8	2059.9	2137.1	2183.3
63°	1377.7	1388.9	1407.8	1452.2	1512.5	1606.9	1742.6	1905.5	2065.3	2149.5	2185.7
65°	1275.8	1277.9	1306.2	1350.5	1418.4	1516.4	1653.4	1841.6	2018.9	2116.0	2091.0
67.5°	1097.8	1106.6	1130.4	1175.0	1241.1	1343.0	1491.7	1665.7	1821.7	1899.2	1787.3
70°	887.0	886.4	916.0	951.8	1010.0	1099.6	1229.9	1387.0	1510.7	1567.1	1379.8
72.5°	633.7	618.0	639.7	679.5	727.1	798.6	901.8	1023.9	1134.6	1183.4	1008.8
75°	288.6	284.4	303.7	343.2	391.5	455.1	539.9	645.4	751.6	808.9	642.7
77.5°	97.1	98.3	105.8	120.1	146.0	178.0	230.7	298.3	384.2	440.9	301.6
80°	65.2	67.0	69.4	71.5	74.5	79.3	90.8	108.3	134.8	163.1	95.3
82.5°	53.4	55.5	60.9	63.4	65.2	66.7	67.6	68.8	68.8	69.4	60.3
85°	38.3	41.9	49.1	53.7	55.5	56.7	58.2	60.0	57.3	54.9	46.7
87.5°	13.3	18.1	26.5	29.3	31.4	31.7	33.8	37.4	35.6	29.0	14.2
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°	322.1	322.1	322.1	322.1	322.1	322.1	322.1	322.1	322.1
2.5°	323.6	323.3	323.6	323.9	323.9	323.9	324.2	324.5	324.5
5°	329.6	329.9	329.6	329.9	329.9	330.2	330.2	330.8	330.8
7.5°	339.9	340.5	340.2	340.8	340.8	341.4	341.1	342.0	342.0
10°	353.8	354.4	355.0	355.3	355.0	355.6	356.2	356.5	356.2
12.5°	369.5	369.8	369.5	370.1	370.1	370.7	370.7	371.6	371.6
15°	383.9	383.6	383.3	384.2	384.8	385.1	385.7	386.6	385.7
17.5°	396.9	397.2	396.6	397.5	398.7	399.6	400.2	401.4	401.1
20°	409.9	409.3	409.9	411.4	412.6	413.8	415.0	416.8	416.5
22.5°	422.5	423.1	424.6	425.9	428.0	429.8	431.3	433.7	434.6
25°	440.3	440.3	442.7	444.2	447.2	449.7	453.0	455.7	457.2
27.5°	463.0	463.0	465.7	469.0	473.5	477.7	481.3	485.0	484.4
30°	493.7	495.2	497.6	501.8	507.9	513.0	517.9	521.5	521.8
32.5°	534.1	535.9	543.2	554.0	566.7	576.4	583.6	592.3	593.5
35°	625.8	630.4	639.7	648.4	653.6	659.3	662.9	663.2	663.8
37.5°	722.3	714.5	707.2	700.6	697.6	697.0	697.0	698.2	698.8
40°	757.6	753.7	750.4	746.2	747.4	747.1	749.2	751.0	752.2
42.5°	817.9	814.9	811.9	806.5	809.5	808.6	811.6	814.3	815.8
45°	902.1	892.7	886.1	877.3	880.4	878.6	878.6	881.9	882.5
47.5°	995.0	984.1	970.6	959.7	956.0	952.7	955.7	955.7	952.4
50°	1106.3	1093.3	1077.3	1059.8	1053.8	1050.5	1051.7	1053.2	1043.8
52.5°	1257.4	1242.9	1220.3	1193.7	1188.0	1185.3	1184.7	1182.5	1180.1
55°	1462.1	1435.0	1407.2	1372.3	1361.7	1358.7	1359.0	1356.6	1362.3
57.5°	1703.7	1663.9	1600.0	1557.4	1532.1	1522.4	1513.7	1510.1	1510.4
60°	1942.9	1861.7	1766.2	1691.9	1638.9	1605.1	1578.5	1563.8	1559.6
62.5°	2097.0	1969.4	1825.9	1705.6	1618.4	1562.6	1520.6	1494.1	1485.7
63°	2109.1	1973.9	1820.5	1691.3	1599.7	1541.2	1497.1	1469.7	1460.6
65°	2082.8	1928.4	1749.5	1595.8	1495.3	1430.5	1382.8	1356.9	1349.9
67.5°	1879.0	1750.5	1568.3	1409.3	1308.0	1242.3	1187.7	1163.0	1155.1
70°	1528.5	1440.4	1291.1	1155.4	1061.0	997.7	942.5	922.0	921.7
72.5°	1133.1	1018.8	929.8	830.3	748.0	697.6	649.6	626.7	615.2
75°	749.5	627.0	527.5	443.6	361.6	316.4	262.4	239.2	225.6
77.5°	377.6	279.9	200.6	139.0	108.0	88.7	81.1	77.2	76.9
80°	125.8	94.4	81.1	76.0	74.5	74.8	73.9	72.4	70.6
82.5°	69.7	73.3	73.9	71.8	71.8	70.6	69.4	63.7	60.6
85°	59.7	65.8	66.4	65.2	64.9	63.1	60.9	53.1	48.5
87.5°	37.4	43.1	42.2	37.7	41.6	38.9	36.8	23.8	17.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)