

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: P507549

Luminaire Tested: **VERD-S-CA1-40-740-U-T4**

Issue Date: 3/30/2021

Test Information

Test Method: LM-79-08
Report Number: P507549
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2103-168-6)
Test Lab: INNOVATION CENTER
Issue Date: 3/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-S-CA1-40-740-U-T4
Description: VERDEON-S ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 4000K, 760mA LED AND TYPE IV OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6039 lumens
Efficiency: N/A
Efficacy: 139.1 lumens/watt
Luminous Opening: Rectangular (W 0.83' x L: 0.83' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 43.4
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: 24 FT

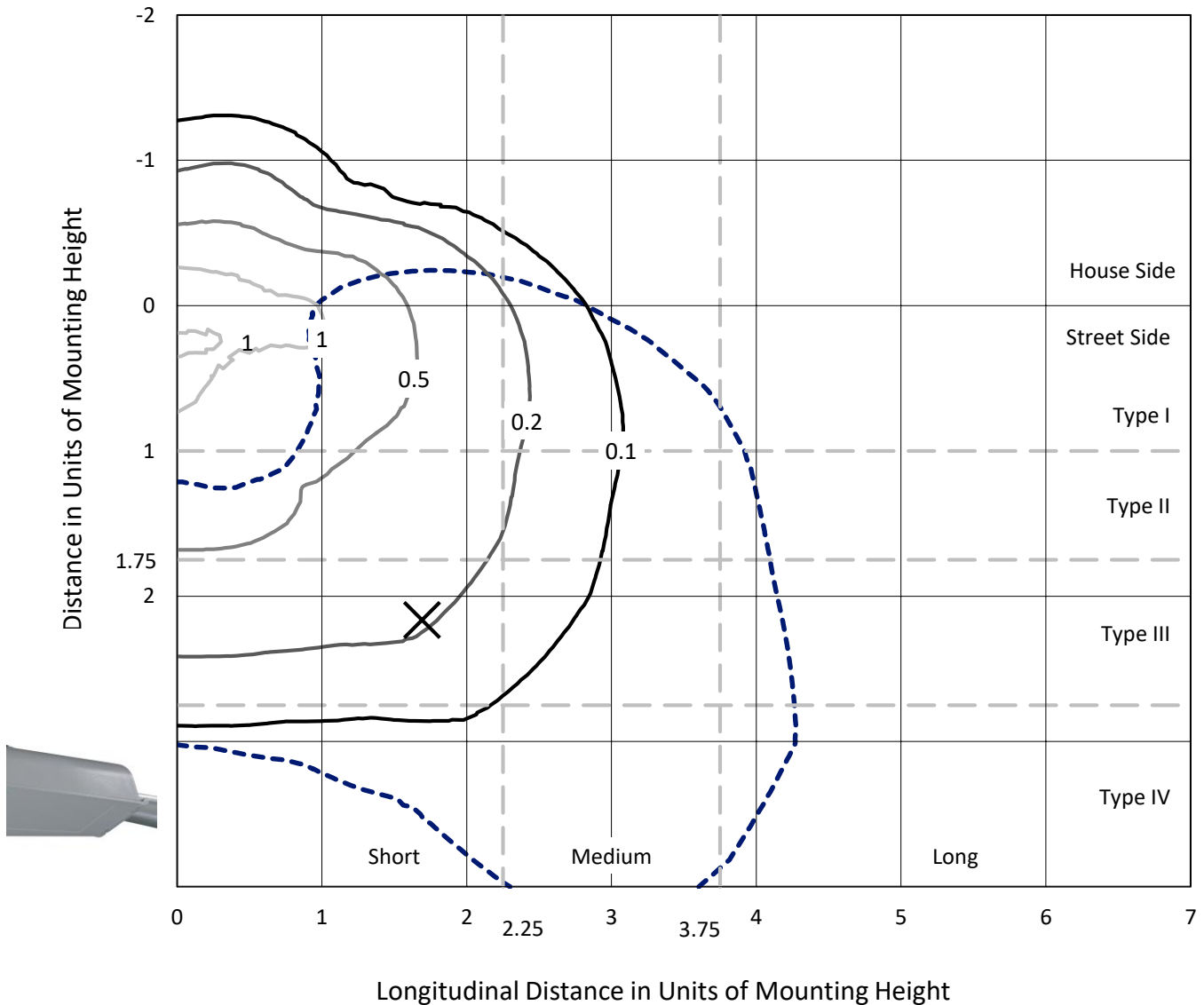


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Iso-Footcandle Lines of Horizontal Illumination

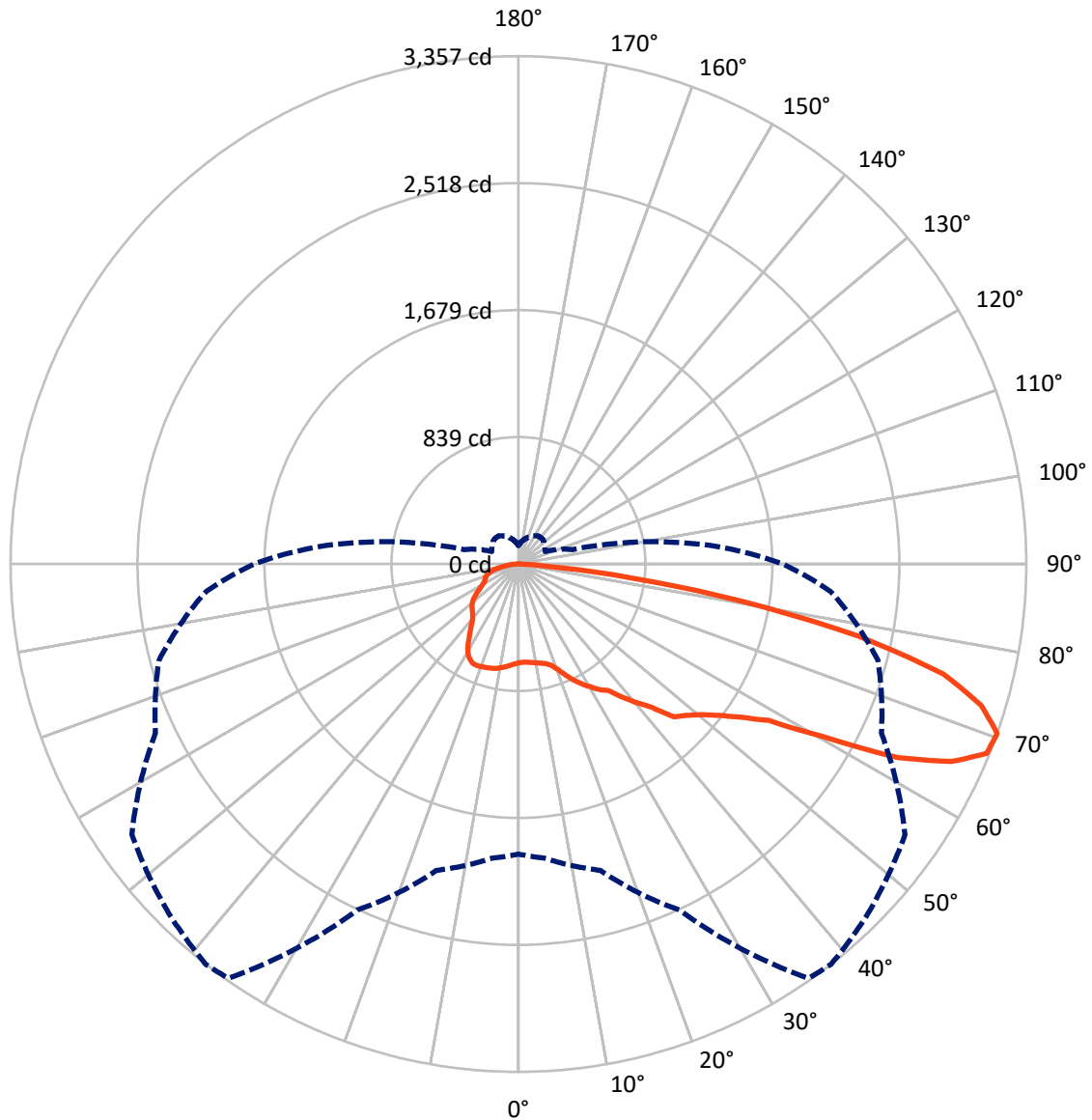
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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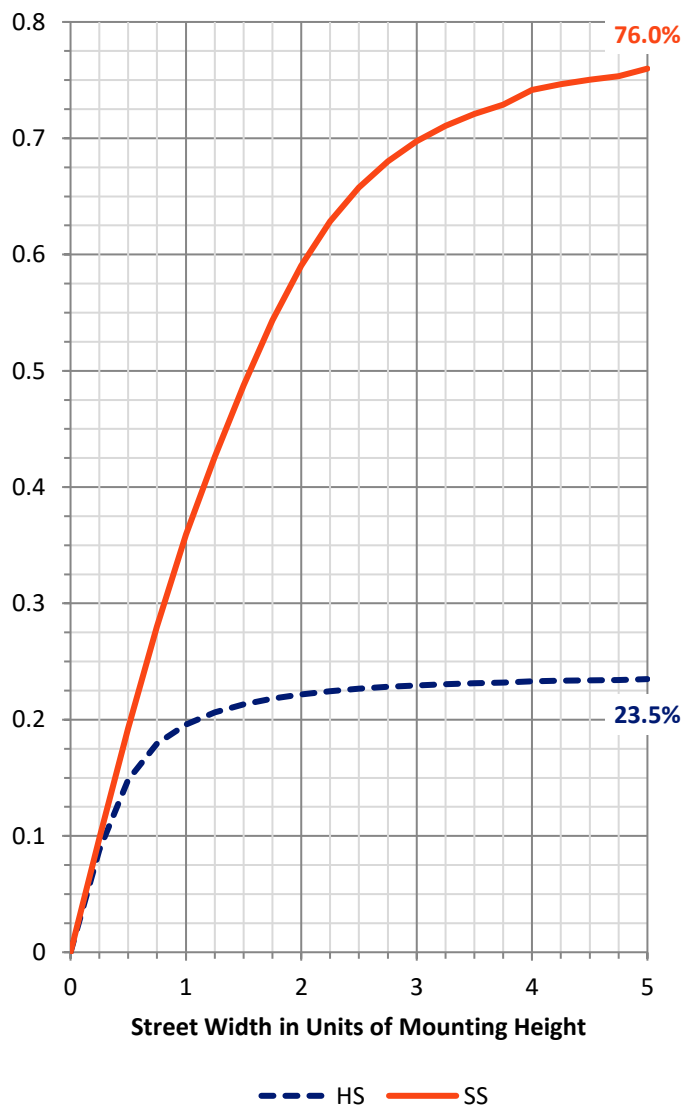
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1434.3	0.0	1434.3
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	4604.7	0.0	4604.7
	% Fixture	76.2	0.0	76.2
Total	Lumens	6039.0	0.0	6039.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.6	1.1
10°-20°	200.5	3.3
20°-30°	372.0	6.2
30°-40°	575.9	9.5
40°-50°	853.4	14.1
50°-60°	1189.1	19.7
60°-70°	1527.1	25.3
70°-80°	1117.3	18.5
80°-90°	140.0	2.3
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°	6039.0	100.0
0°-180°	6039.0	100.0

Coefficient of Utilization



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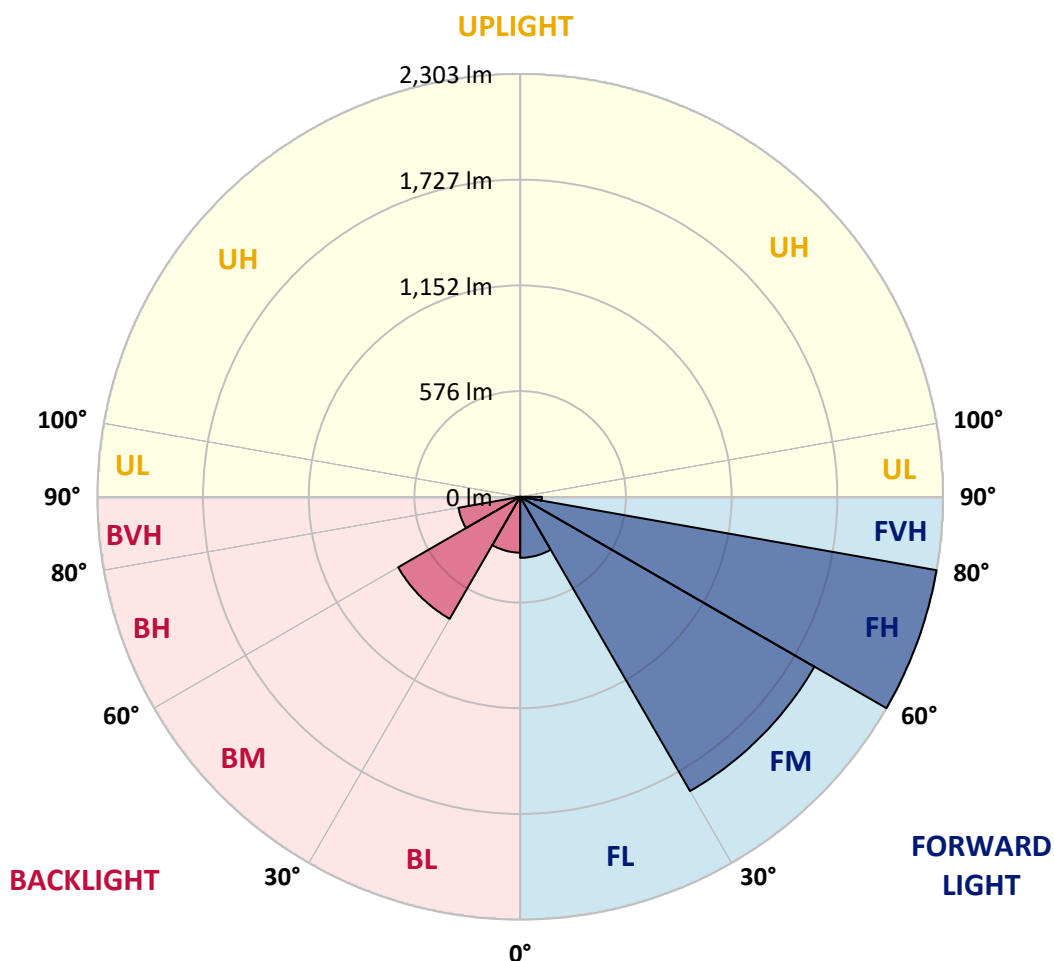
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	332.3	5.5			
FM	(30°-60°)	1850.8	30.6			
FH	(60°-80°)	2303.3	38.1			G2/5000
FVH	(80°-90°)	118.3	2.0			G2/225
BL	(0°-30°)	303.8	5.0	B1/500		
BM	(30°-60°)	767.7	12.7	B1/1000		
BH	(60°-80°)	341.1	5.6	B1/500		G1/500
BVH	(80°-90°)	21.7	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	652.5	652.5	652.5	652.5	652.5	652.5	652.5	652.5	652.5	652.5	652.5
2.5°	650.8	650.8	650.8	649.1	649.1	649.1	647.4	647.4	649.1	650.8	650.8
5°	656.0	656.0	654.3	654.3	652.5	652.5	652.5	650.8	650.8	650.8	654.3
7.5°	657.7	657.7	657.7	657.7	657.7	657.7	659.4	657.7	657.7	657.7	661.1
10°	657.7	657.7	659.4	659.4	662.9	664.6	666.3	669.8	669.8	669.8	671.5
12.5°	661.1	661.1	662.9	664.6	669.8	673.2	676.6	681.8	683.5	683.5	685.3
15°	668.0	668.0	669.8	674.9	681.8	683.5	688.7	695.6	702.5	704.2	705.9
17.5°	695.6	695.6	695.6	695.6	702.5	704.2	711.1	721.4	728.3	731.7	736.9
20°	750.7	752.4	749.0	747.2	743.8	743.8	743.8	749.0	757.6	769.6	778.2
22.5°	821.3	821.3	821.3	807.5	798.9	797.2	797.2	795.4	802.3	814.4	826.4
25°	876.4	878.1	876.4	864.3	854.0	850.5	850.5	855.7	855.7	866.0	879.8
27.5°	921.1	924.6	919.4	909.1	900.5	898.7	900.5	916.0	924.6	931.5	948.7
30°	969.3	971.1	959.0	952.1	947.0	943.5	945.2	967.6	996.9	1005.5	1034.8
32.5°	1058.9	1058.9	1041.6	1002.0	988.3	990.0	990.0	1019.3	1058.9	1098.5	1136.3
35°	1143.2	1141.5	1126.0	1091.6	1039.9	1027.9	1034.8	1065.8	1127.7	1194.9	1262.0
37.5°	1243.1	1239.6	1225.9	1177.7	1134.6	1115.7	1077.8	1119.1	1194.9	1327.5	1396.3
40°	1355.0	1349.8	1318.8	1270.6	1213.8	1205.2	1172.5	1179.4	1279.2	1466.9	1546.1
42.5°	1417.0	1413.5	1392.9	1353.3	1312.0	1294.7	1267.2	1258.6	1392.9	1647.7	1687.3
45°	1475.5	1482.4	1482.4	1463.5	1446.3	1442.8	1423.9	1430.8	1539.2	1795.8	1811.3
47.5°	1511.7	1518.6	1496.2	1492.7	1492.7	1494.5	1513.4	1559.9	1671.8	1935.2	1919.7
50°	1620.2	1615.0	1525.5	1539.2	1554.7	1565.1	1606.4	1680.4	1856.0	2060.9	2014.4
52.5°	1816.4	1769.9	1663.2	1632.2	1640.8	1661.5	1716.6	1813.0	2043.7	2172.8	2097.1
55°	2059.2	2031.6	1935.2	1797.5	1752.7	1787.2	1845.7	1943.8	2188.3	2277.9	2162.5
57.5°	2222.8	2233.1	2245.1	2150.4	1942.1	1950.7	1990.3	2073.0	2333.0	2379.4	2214.2
60°	2388.0	2400.1	2467.2	2443.1	2394.9	2315.7	2171.1	2210.7	2441.4	2446.6	2252.0
62.5°	2518.9	2527.5	2627.4	2682.5	2808.1	2818.5	2592.9	2384.6	2555.1	2500.0	2267.5
65°	2453.5	2469.0	2618.8	2772.0	3118.1	3147.3	3073.3	2608.4	2642.9	2520.6	2255.5
67.5°	2233.1	2255.5	2413.9	2739.3	3316.1	3338.4	3266.1	3030.3	2673.9	2512.0	2196.9
70°	1918.0	1950.7	2097.1	2524.1	3343.6	3357.4	3267.9	3119.8	2648.0	2460.4	2071.2
72.5°	1559.9	1585.7	1733.8	2164.2	3176.6	3199.0	3171.4	3045.7	2592.9	2360.5	1818.2
75°	1194.9	1196.6	1353.3	1695.9	2811.6	2901.1	2947.6	2902.8	2443.1	2076.4	1399.8
77.5°	754.1	776.5	936.6	1284.4	2209.0	2300.2	2320.9	2265.8	1709.7	1274.1	602.6
80°	339.2	373.6	537.2	867.8	1503.1	1499.6	1511.7	1375.7	910.8	404.6	67.1
82.5°	122.2	129.1	225.5	435.6	728.3	747.2	738.6	635.3	246.2	56.8	41.3
85°	51.7	55.1	74.0	117.1	165.3	175.6	151.5	115.4	39.6	32.7	27.5
87.5°	3.4	3.4	3.4	3.4	3.4	5.2	5.2	5.2	5.2	6.9	8.6
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	652.5	652.5	652.5	652.5	652.5	652.5	652.5	652.5	652.5	652.5	652.5
2.5°	650.8	652.5	654.3	657.7	657.7	659.4	661.1	662.9	662.9	662.9	662.9
5°	656.0	657.7	659.4	664.6	668.0	669.8	673.2	674.9	676.6	676.6	676.6
7.5°	662.9	664.6	668.0	673.2	678.4	681.8	685.3	687.0	688.7	688.7	688.7
10°	673.2	676.6	681.8	688.7	693.9	693.9	695.6	697.3	699.0	699.0	699.0
12.5°	687.0	690.4	699.0	707.6	709.4	707.6	704.2	704.2	702.5	700.7	700.7
15°	709.4	711.1	723.1	730.0	724.9	716.2	709.4	702.5	697.3	693.9	693.9
17.5°	740.3	745.5	757.6	757.6	743.8	728.3	711.1	693.9	680.1	674.9	673.2
20°	785.1	792.0	802.3	792.0	769.6	742.1	711.1	683.5	656.0	638.8	633.6
22.5°	835.0	843.7	847.1	824.7	792.0	754.1	712.8	669.8	625.0	587.1	576.8
25°	893.6	898.7	886.7	850.5	805.8	757.6	707.6	650.8	581.9	532.0	526.9
27.5°	962.4	957.3	924.6	869.5	809.2	750.7	688.7	612.9	526.9	489.0	483.8
30°	1036.5	1017.5	957.3	879.8	798.9	730.0	656.0	556.1	485.5	454.5	451.1
32.5°	1124.3	1086.4	988.3	881.5	779.9	693.9	602.6	509.6	458.0	423.5	420.1
35°	1222.4	1163.9	1015.8	871.2	742.1	643.9	538.9	475.2	428.7	396.0	389.1
37.5°	1355.0	1268.9	1050.3	848.8	693.9	580.2	492.4	439.0	399.4	363.3	358.1
40°	1491.0	1389.4	1098.5	823.0	640.5	528.6	452.8	413.2	378.8	337.5	328.9
42.5°	1627.0	1510.0	1163.9	792.0	587.1	489.0	435.6	409.8	368.5	325.4	316.8
45°	1739.0	1613.3	1225.9	755.8	533.7	452.8	425.3	402.9	361.6	315.1	304.7
47.5°	1835.4	1699.4	1279.2	723.1	482.1	425.3	416.7	390.8	351.2	304.7	294.4
50°	1916.3	1768.2	1322.3	695.6	439.0	406.3	399.4	368.5	327.1	287.5	280.6
52.5°	1986.9	1818.2	1341.2	687.0	396.0	383.9	371.9	340.9	303.0	266.9	256.5
55°	2033.4	1856.0	1337.8	687.0	354.7	353.0	339.2	315.1	287.5	258.3	247.9
57.5°	2069.5	1873.2	1312.0	587.1	320.2	313.4	304.7	294.4	277.2	244.5	234.2
60°	2086.7	1862.9	1256.9	427.0	285.8	273.8	280.6	277.2	260.0	215.2	208.3
62.5°	2076.4	1831.9	1132.9	311.6	249.7	247.9	258.3	251.4	218.7	179.1	175.6
65°	2036.8	1754.4	974.5	234.2	229.0	241.0	246.2	232.4	201.4	165.3	151.5
67.5°	1935.2	1604.7	709.4	210.1	222.1	235.9	239.3	220.4	189.4	155.0	137.7
70°	1747.6	1322.3	368.5	194.6	211.8	229.0	227.3	203.2	172.2	141.2	120.5
72.5°	1417.0	938.3	139.5	173.9	196.3	213.5	210.1	182.5	122.2	87.8	79.2
75°	919.4	449.4	120.5	149.8	175.6	191.1	192.8	165.3	106.7	74.0	63.7
77.5°	315.1	82.6	98.1	124.0	151.5	172.2	167.0	132.6	82.6	55.1	49.9
80°	53.4	55.1	75.8	87.8	105.0	137.7	117.1	94.7	65.4	39.6	32.7
82.5°	37.9	46.5	53.4	51.7	72.3	91.3	79.2	63.7	43.0	31.0	27.5
85°	27.5	31.0	29.3	31.0	41.3	60.3	55.1	44.8	31.0	22.4	18.9
87.5°	10.3	10.3	13.8	17.2	25.8	37.9	32.7	13.8	12.1	10.3	10.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)