

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: P507581

Luminaire Tested: **VERD-S-CA1-50-727-U-T4**

Issue Date: 3/30/2021

Test Information

Test Method: LM-79-08
Report Number: P507581
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-CA1-50-727-U-T4
Description: VERDEON-S ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 940mA LED AND TYPE IV OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6223 lumens
Efficiency: N/A
Efficacy: 116.3 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

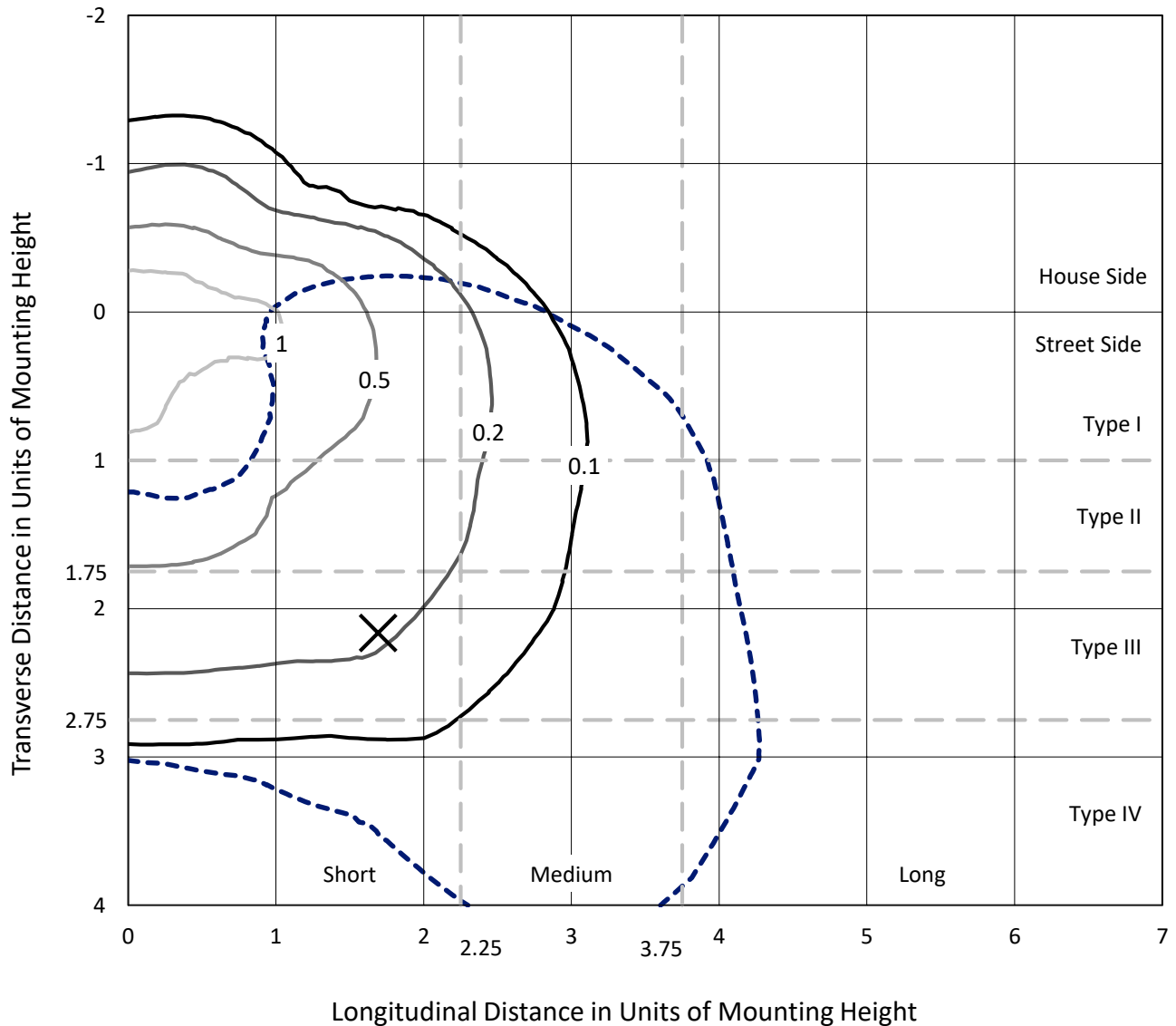
Input Watts (W): 53.5
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

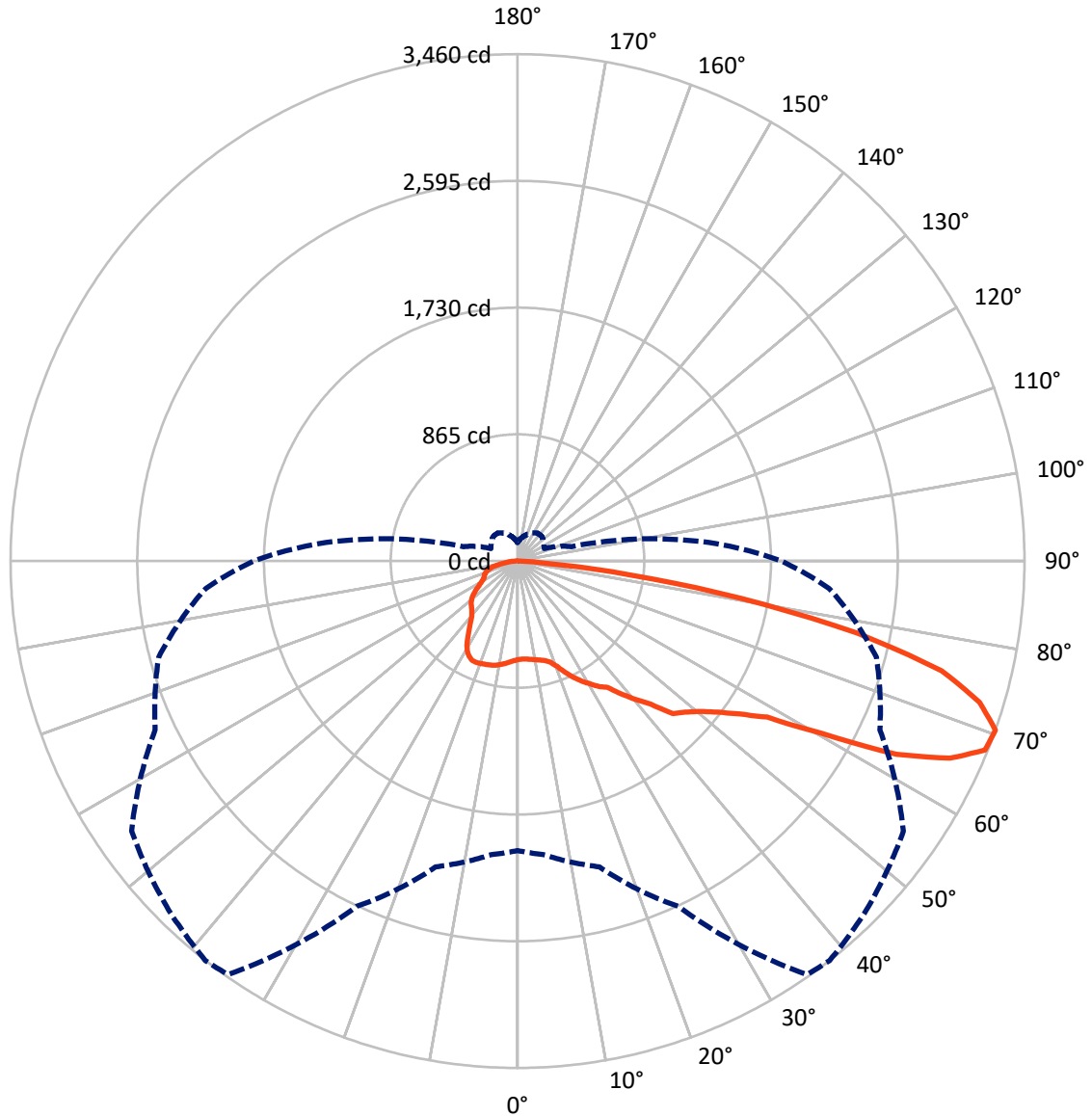
× Max cd
 - - - 1/2 Max cd



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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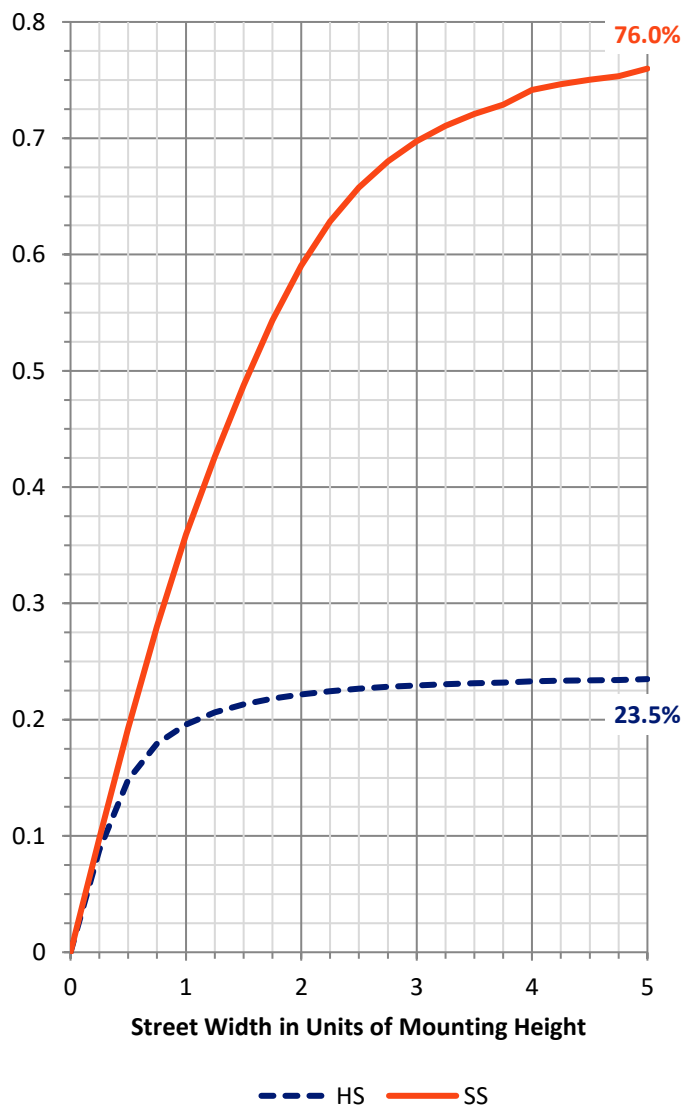
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1478.0	0.0	1478.0
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	4745.0	0.0	4745.0
	% Fixture	76.2	0.0	76.2
Total	Lumens	6223.0	0.0	6223.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.6	1.1
10°-20°	206.6	3.3
20°-30°	383.3	6.2
30°-40°	593.5	9.5
40°-50°	879.4	14.1
50°-60°	1225.4	19.7
60°-70°	1573.6	25.3
70°-80°	1151.3	18.5
80°-90°	144.2	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°	6223.0	100.0
0°-180°	6223.0	100.0

Coefficient of Utilization



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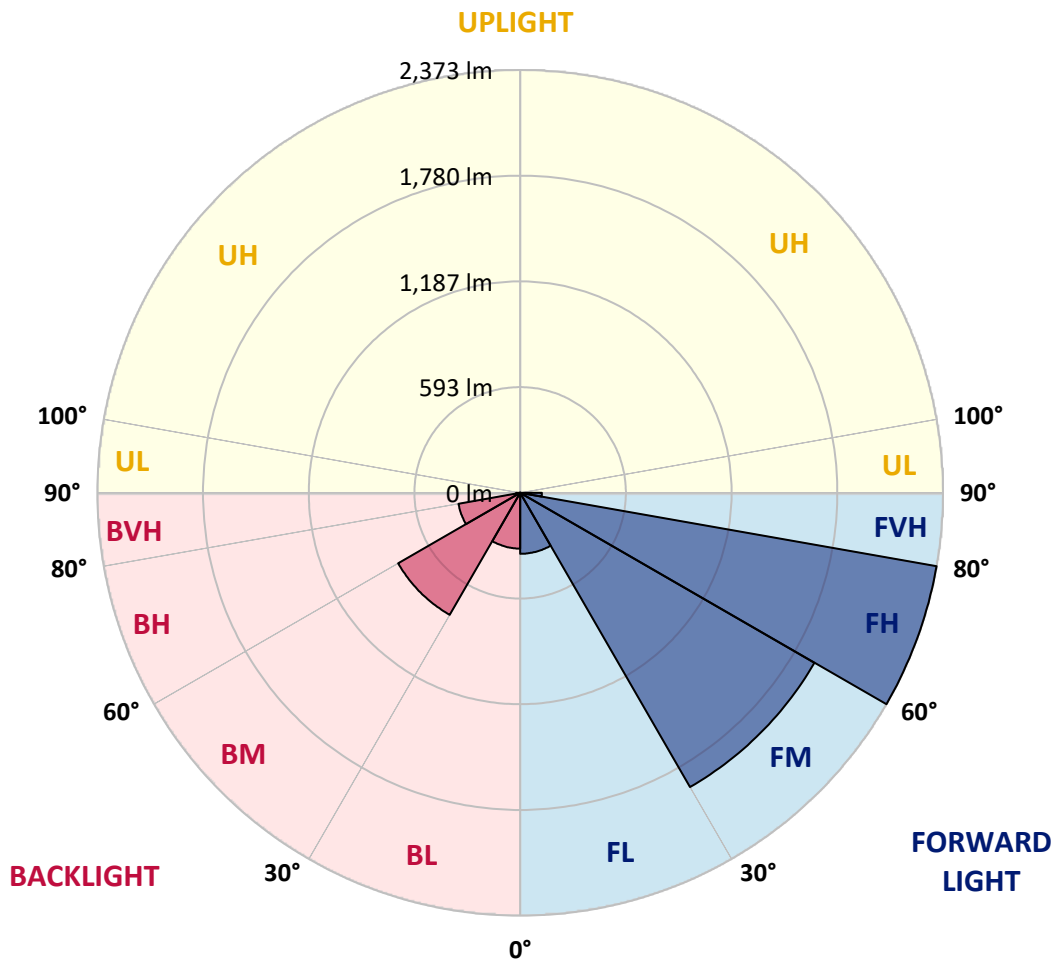
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	342.4	5.5			
FM (30°-60°)	1907.2	30.6			
FH (60°-80°)	2373.5	38.1			G2/5000
FVH (80°-90°)	121.9	2.0			G2/225
BL (0°-30°)	313.1	5.0	B1/500		
BM (30°-60°)	791.1	12.7	B1/1000		
BH (60°-80°)	351.5	5.6	B1/500		G1/500
BVH (80°-90°)	22.4	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°	672.4	672.4	672.4	672.4	672.4	672.4	672.4	672.4	672.4	672.4	672.4
2.5°	670.6	670.6	670.6	668.9	668.9	668.9	667.1	667.1	668.9	670.6	670.6
5°	676.0	676.0	674.2	674.2	672.4	672.4	672.4	670.6	670.6	670.6	674.2
7.5°	677.7	677.7	677.7	677.7	677.7	677.7	679.5	677.7	677.7	677.7	681.3
10°	677.7	677.7	679.5	679.5	683.1	684.8	686.6	690.2	690.2	690.2	691.9
12.5°	681.3	681.3	683.1	684.8	690.2	693.7	697.3	702.6	704.4	704.4	706.1
15°	688.4	688.4	690.2	695.5	702.6	704.4	709.7	716.8	723.9	725.6	727.4
17.5°	716.8	716.8	716.8	716.8	723.9	725.6	732.7	743.4	750.5	754.0	759.4
20°	773.5	775.3	771.8	770.0	766.5	766.5	766.5	771.8	780.6	793.1	801.9
22.5°	846.3	846.3	846.3	832.1	823.2	821.5	821.5	819.7	826.8	839.2	851.6
25°	903.1	904.8	903.1	890.6	880.0	876.5	876.5	881.8	881.8	892.4	906.6
27.5°	949.2	952.7	947.4	936.8	927.9	926.1	927.9	943.9	952.7	959.8	977.6
30°	998.9	1000.6	988.2	981.1	975.8	972.3	974.0	997.1	1027.3	1036.1	1066.3
32.5°	1091.1	1091.1	1073.4	1032.6	1018.4	1020.2	1020.2	1050.3	1091.1	1131.9	1171.0
35°	1178.1	1176.3	1160.3	1124.8	1071.6	1059.2	1066.3	1098.2	1162.1	1231.3	1300.5
37.5°	1281.0	1277.4	1263.2	1213.5	1169.2	1149.7	1110.6	1153.2	1231.3	1367.9	1438.9
40°	1396.3	1391.0	1359.0	1309.4	1250.8	1241.9	1208.2	1215.3	1318.2	1511.6	1593.2
42.5°	1460.2	1456.6	1435.3	1394.5	1351.9	1334.2	1305.8	1296.9	1435.3	1697.9	1738.7
45°	1520.5	1527.6	1527.6	1508.1	1490.3	1486.8	1467.3	1474.4	1586.1	1850.5	1866.5
47.5°	1557.7	1564.8	1541.8	1538.2	1538.2	1540.0	1559.5	1607.4	1722.7	1994.2	1978.2
50°	1669.5	1664.2	1571.9	1586.1	1602.1	1612.7	1655.3	1731.6	1912.6	2123.7	2075.8
52.5°	1871.8	1823.9	1713.9	1681.9	1690.8	1712.1	1768.9	1868.2	2106.0	2239.0	2161.0
55°	2121.9	2093.5	1994.2	1852.3	1806.1	1841.6	1901.9	2003.1	2255.0	2347.3	2228.4
57.5°	2290.5	2301.1	2313.5	2216.0	2001.3	2010.2	2051.0	2136.1	2404.0	2451.9	2281.6
60°	2460.8	2473.2	2542.4	2517.6	2467.9	2386.3	2237.3	2278.1	2515.8	2521.1	2320.6
62.5°	2595.6	2604.5	2707.4	2764.2	2893.7	2904.4	2671.9	2457.3	2632.9	2576.1	2336.6
65°	2528.2	2544.2	2698.5	2856.5	3213.1	3243.2	3166.9	2687.9	2723.4	2597.4	2324.2
67.5°	2301.1	2324.2	2487.4	2822.7	3417.1	3440.2	3365.6	3122.6	2755.3	2588.5	2263.9
70°	1976.5	2010.2	2161.0	2601.0	3445.5	3459.7	3367.4	3214.8	2728.7	2535.3	2134.4
72.5°	1607.4	1634.0	1786.6	2230.2	3273.4	3296.5	3268.1	3138.5	2671.9	2432.4	1873.5
75°	1231.3	1233.1	1394.5	1747.6	2897.3	2989.5	3037.4	2991.3	2517.6	2139.7	1442.4
77.5°	777.1	800.2	965.2	1323.5	2276.3	2370.3	2391.6	2334.8	1761.8	1312.9	621.0
80°	349.5	385.0	553.5	894.2	1548.9	1545.3	1557.7	1417.6	938.5	416.9	69.2
82.5°	126.0	133.1	232.4	448.9	750.5	770.0	761.1	654.7	253.7	58.5	42.6
85°	53.2	56.8	76.3	120.6	170.3	181.0	156.1	118.9	40.8	33.7	28.4
87.5°	3.5	3.5	3.5	3.5	3.5	5.3	5.3	5.3	5.3	7.1	8.9
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	672.4	672.4	672.4	672.4	672.4	672.4	672.4	672.4	672.4	672.4	672.4
2.5°	670.6	672.4	674.2	677.7	677.7	679.5	681.3	683.1	683.1	683.1	683.1
5°	676.0	677.7	679.5	684.8	688.4	690.2	693.7	695.5	697.3	697.3	697.3
7.5°	683.1	684.8	688.4	693.7	699.0	702.6	706.1	707.9	709.7	709.7	709.7
10°	693.7	697.3	702.6	709.7	715.0	715.0	716.8	718.5	720.3	720.3	720.3
12.5°	707.9	711.5	720.3	729.2	731.0	729.2	725.6	725.6	723.9	722.1	722.1
15°	731.0	732.7	745.2	752.3	746.9	738.1	731.0	723.9	718.5	715.0	715.0
17.5°	762.9	768.2	780.6	780.6	766.5	750.5	732.7	715.0	700.8	695.5	693.7
20°	809.0	816.1	826.8	816.1	793.1	764.7	732.7	704.4	676.0	658.2	652.9
22.5°	860.5	869.4	872.9	849.8	816.1	777.1	734.5	690.2	644.0	605.0	594.4
25°	920.8	926.1	913.7	876.5	830.3	780.6	729.2	670.6	599.7	548.2	542.9
27.5°	991.8	986.5	952.7	896.0	833.9	773.5	709.7	631.6	542.9	503.9	498.5
30°	1068.1	1048.5	986.5	906.6	823.2	752.3	676.0	573.1	500.3	468.4	464.8
32.5°	1158.5	1119.5	1018.4	908.4	803.7	715.0	621.0	525.2	471.9	436.5	432.9
35°	1259.7	1199.4	1046.8	897.7	764.7	663.5	555.3	489.7	441.8	408.1	401.0
37.5°	1396.3	1307.6	1082.3	874.7	715.0	597.9	507.4	452.4	411.6	374.4	369.0
40°	1536.5	1431.8	1131.9	848.1	660.0	544.7	466.6	425.8	390.3	347.7	338.9
42.5°	1676.6	1556.0	1199.4	816.1	605.0	503.9	448.9	422.3	379.7	335.3	326.5
45°	1791.9	1662.4	1263.2	778.9	550.0	466.6	438.2	415.2	372.6	324.7	314.0
47.5°	1891.3	1751.1	1318.2	745.2	496.8	438.2	429.4	402.7	361.9	314.0	303.4
50°	1974.7	1822.1	1362.6	716.8	452.4	418.7	411.6	379.7	337.1	296.3	289.2
52.5°	2047.4	1873.5	1382.1	707.9	408.1	395.6	383.2	351.3	312.3	275.0	264.4
55°	2095.3	1912.6	1378.5	707.9	365.5	363.7	349.5	324.7	296.3	266.1	255.5
57.5°	2132.6	1930.3	1351.9	605.0	330.0	322.9	314.0	303.4	285.6	251.9	241.3
60°	2150.3	1919.7	1295.2	440.0	294.5	282.1	289.2	285.6	267.9	221.8	214.7
62.5°	2139.7	1887.7	1167.4	321.1	257.3	255.5	266.1	259.0	225.3	184.5	181.0
65°	2098.9	1807.9	1004.2	241.3	236.0	248.4	253.7	239.5	207.6	170.3	156.1
67.5°	1994.2	1653.5	731.0	216.5	228.9	243.1	246.6	227.1	195.2	159.7	141.9
70°	1800.8	1362.6	379.7	200.5	218.2	236.0	234.2	209.4	177.4	145.5	124.2
72.5°	1460.2	966.9	143.7	179.2	202.3	220.0	216.5	188.1	126.0	90.5	81.6
75°	947.4	463.1	124.2	154.4	181.0	196.9	198.7	170.3	110.0	76.3	65.6
77.5°	324.7	85.2	101.1	127.7	156.1	177.4	172.1	136.6	85.2	56.8	51.5
80°	55.0	56.8	78.1	90.5	108.2	141.9	120.6	97.6	67.4	40.8	33.7
82.5°	39.0	47.9	55.0	53.2	74.5	94.0	81.6	65.6	44.4	31.9	28.4
85°	28.4	31.9	30.2	31.9	42.6	62.1	56.8	46.1	31.9	23.1	19.5
87.5°	10.6	10.6	14.2	17.7	26.6	39.0	33.7	14.2	12.4	10.6	10.6
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)