

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: P507637

Luminaire Tested: **VERD-S-CA1-60-730-U-T4**

Issue Date: 3/30/2021

Test Information

Test Method: LM-79-08
Report Number: P507637
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-CA1-60-730-U-T4
Description: VERDEON-S ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 1150mA LED AND TYPE IV OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8475 lumens
Efficiency: N/A
Efficacy: 133.9 lumens/watt
Luminous Opening: Rectangular (W 0.83' x L: 0.83' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 63.3
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

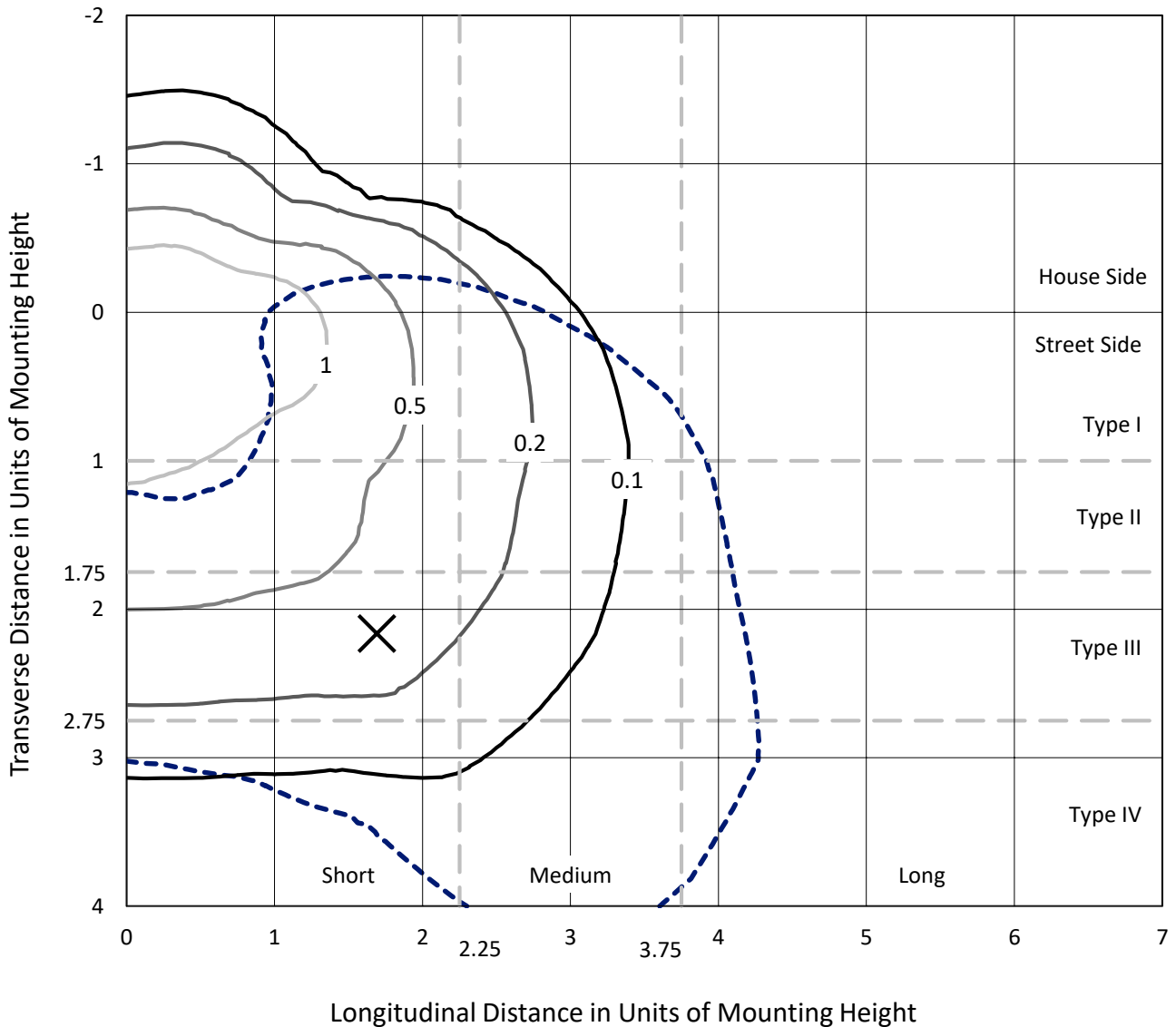


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Iso-Footcandle Lines of Horizontal Illumination

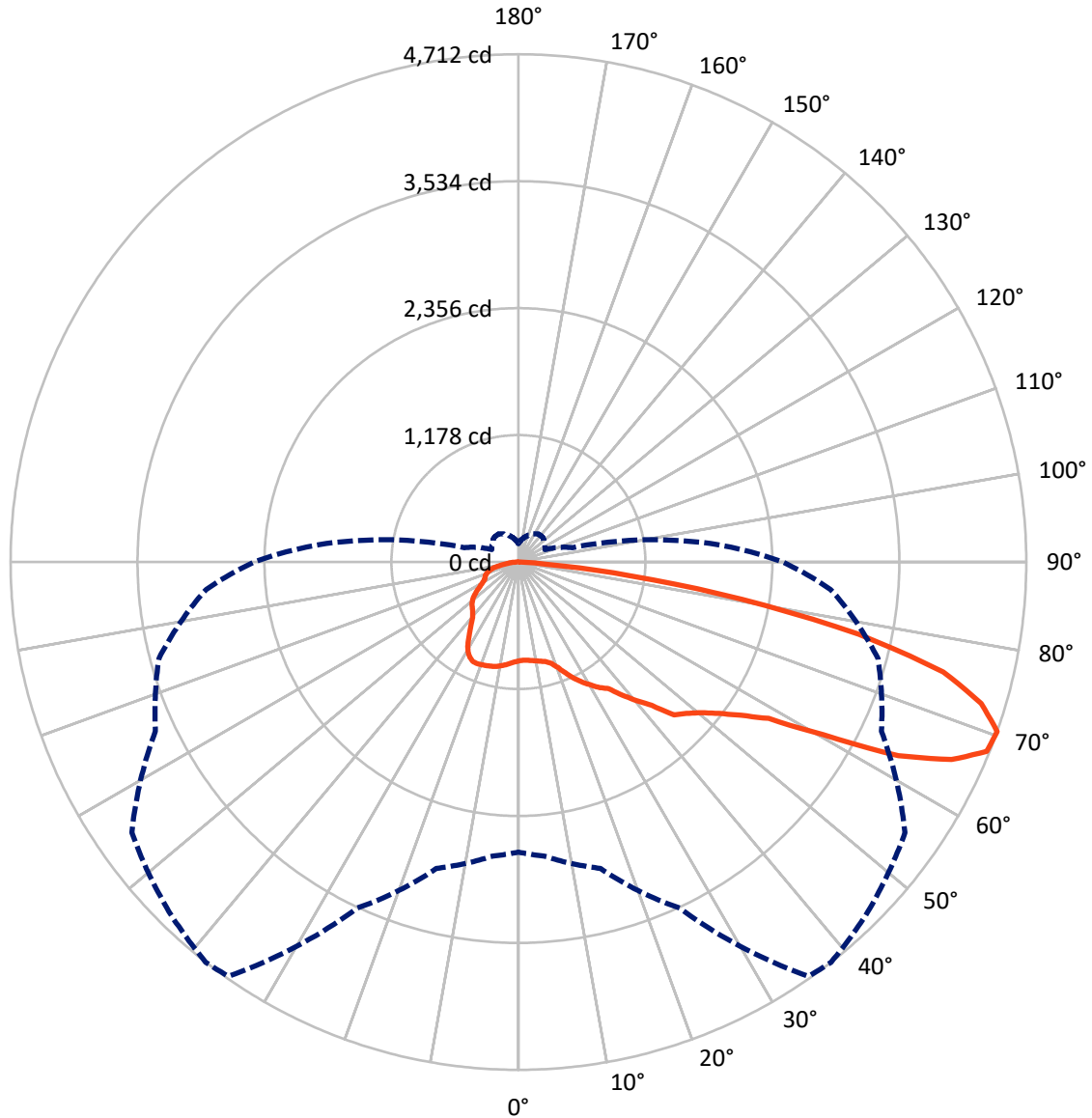
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 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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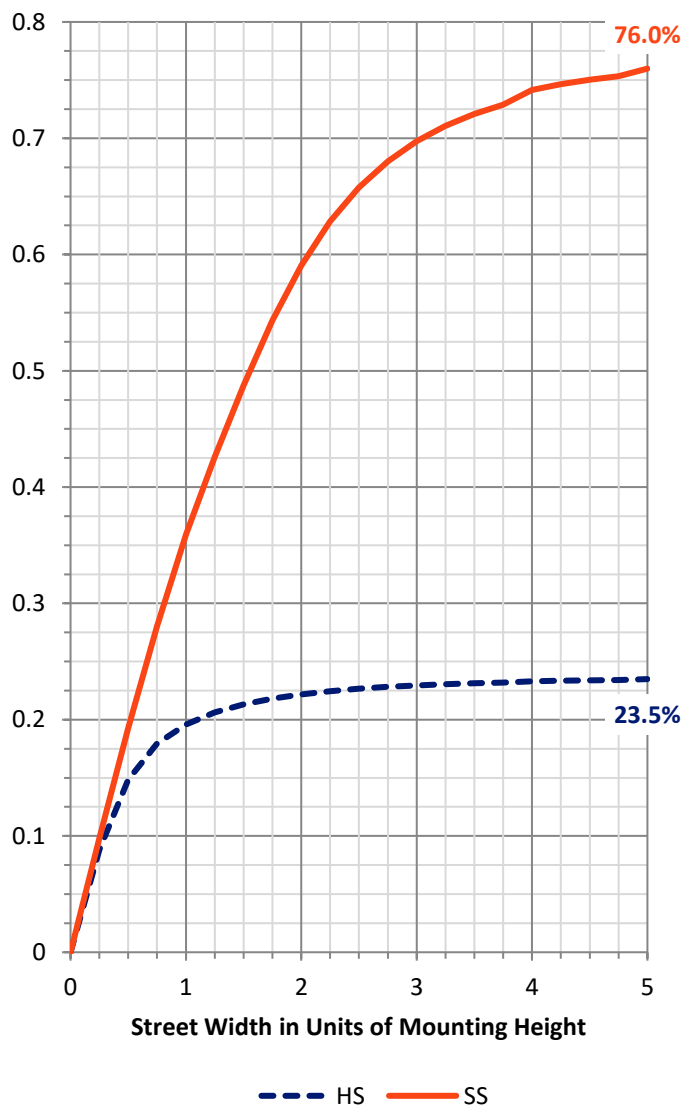
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2012.9	0.0	2012.9
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	6462.1	0.0	6462.1
	% Fixture	76.2	0.0	76.2
Total	Lumens	8475.0	0.0	8475.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.3	1.1
10°-20°	281.4	3.3
20°-30°	522.1	6.2
30°-40°	808.3	9.5
40°-50°	1197.7	14.1
50°-60°	1668.8	19.7
60°-70°	2143.1	25.3
70°-80°	1568.0	18.5
80°-90°	196.4	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°	8475.0	100.0
0°-180°	8475.0	100.0

Coefficient of Utilization



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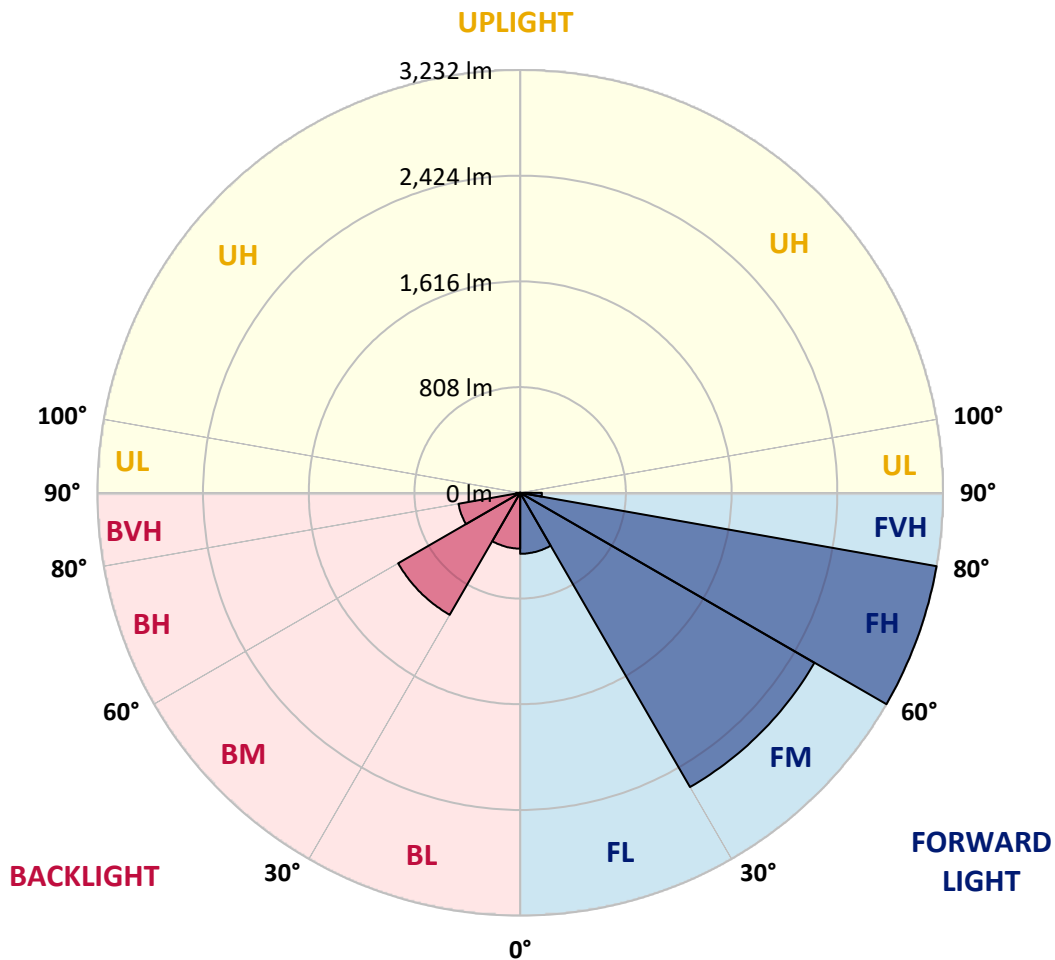
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	466.3	5.5			
FM (30°-60°)	2597.4	30.6			
FH (60°-80°)	3232.4	38.1			G2/5000
FVH (80°-90°)	166.0	2.0			G2/225
BL (0°-30°)	426.4	5.0	B1/500		
BM (30°-60°)	1077.4	12.7	B2/2500		
BH (60°-80°)	478.7	5.6	B1/500		G1/500
BVH (80°-90°)	30.4	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	915.8	915.8	915.8	915.8	915.8	915.8	915.8	915.8	915.8	915.8	915.8
2.5°	913.3	913.3	913.3	910.9	910.9	910.9	908.5	908.5	910.9	913.3	913.3
5°	920.6	920.6	918.2	918.2	915.8	915.8	915.8	913.3	913.3	913.3	918.2
7.5°	923.0	923.0	923.0	923.0	923.0	923.0	925.4	923.0	923.0	923.0	927.8
10°	923.0	923.0	925.4	925.4	930.3	932.7	935.1	939.9	939.9	939.9	942.3
12.5°	927.8	927.8	930.3	932.7	939.9	944.8	949.6	956.8	959.2	959.2	961.7
15°	937.5	937.5	939.9	947.2	956.8	959.2	966.5	976.2	985.8	988.2	990.7
17.5°	976.2	976.2	976.2	976.2	985.8	988.2	997.9	1012.4	1022.1	1026.9	1034.2
20°	1053.5	1055.9	1051.1	1048.7	1043.8	1043.8	1043.8	1051.1	1063.1	1080.1	1092.1
22.5°	1152.5	1152.5	1152.5	1133.2	1121.1	1118.7	1118.7	1116.3	1126.0	1142.9	1159.8
25°	1229.9	1232.3	1229.9	1213.0	1198.5	1193.6	1193.6	1200.9	1200.9	1215.4	1234.7
27.5°	1292.7	1297.5	1290.3	1275.8	1263.7	1261.3	1263.7	1285.4	1297.5	1307.2	1331.4
30°	1360.3	1362.8	1345.8	1336.2	1328.9	1324.1	1326.5	1357.9	1399.0	1411.1	1452.2
32.5°	1486.0	1486.0	1461.8	1406.3	1386.9	1389.3	1389.3	1430.4	1486.0	1541.6	1594.7
35°	1604.4	1602.0	1580.2	1531.9	1459.4	1442.5	1452.2	1495.7	1582.6	1676.9	1771.1
37.5°	1744.5	1739.7	1720.4	1652.7	1592.3	1565.7	1512.6	1570.6	1676.9	1862.9	1959.6
40°	1901.6	1894.3	1850.8	1783.2	1703.5	1691.4	1645.5	1655.1	1795.3	2058.6	2169.8
42.5°	1988.6	1983.7	1954.7	1899.2	1841.2	1817.0	1778.4	1766.3	1954.7	2312.3	2367.9
45°	2070.7	2080.4	2080.4	2053.8	2029.6	2024.8	1998.2	2007.9	2160.1	2520.1	2541.9
47.5°	2121.5	2131.1	2099.7	2094.9	2094.9	2097.3	2123.9	2189.1	2346.2	2715.9	2694.1
50°	2273.7	2266.4	2140.8	2160.1	2181.9	2196.4	2254.4	2358.3	2604.7	2892.2	2827.0
52.5°	2549.1	2483.9	2334.1	2290.6	2302.7	2331.7	2409.0	2544.3	2868.1	3049.3	2943.0
55°	2889.8	2851.2	2715.9	2522.6	2459.7	2508.1	2590.2	2727.9	3071.0	3196.7	3034.8
57.5°	3119.4	3133.9	3150.8	3017.9	2725.5	2737.6	2793.2	2909.2	3274.0	3339.3	3107.3
60°	3351.3	3368.2	3462.5	3428.7	3361.0	3249.8	3046.9	3102.5	3426.2	3433.5	3160.4
62.5°	3535.0	3547.0	3687.2	3764.5	3940.9	3955.4	3638.9	3346.5	3585.7	3508.4	3182.2
65°	3443.1	3464.9	3675.1	3890.2	4375.8	4416.9	4313.0	3660.6	3708.9	3537.4	3165.3
67.5°	3133.9	3165.3	3387.6	3844.2	4653.7	4685.1	4583.6	4252.6	3752.4	3525.3	3083.1
70°	2691.7	2737.6	2943.0	3542.2	4692.3	4711.7	4586.0	4378.2	3716.2	3452.8	2906.7
72.5°	2189.1	2225.4	2433.2	3037.2	4458.0	4489.4	4450.7	4274.3	3638.9	3312.7	2551.6
75°	1676.9	1679.3	1899.2	2380.0	3945.7	4071.4	4136.6	4073.8	3428.7	2914.0	1964.4
77.5°	1058.3	1089.7	1314.4	1802.5	3100.0	3228.1	3257.1	3179.8	2399.3	1788.0	845.7
80°	476.0	524.3	753.9	1217.8	2109.4	2104.5	2121.5	1930.6	1278.2	567.8	94.2
82.5°	171.6	181.2	316.5	611.3	1022.1	1048.7	1036.6	891.6	345.5	79.7	58.0
85°	72.5	77.3	103.9	164.3	232.0	246.5	212.6	161.9	55.6	45.9	38.7
87.5°	4.8	4.8	4.8	4.8	4.8	7.2	7.2	7.2	7.2	9.7	12.1
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°	915.8	915.8	915.8	915.8	915.8	915.8	915.8	915.8	915.8	915.8	915.8
2.5°	913.3	915.8	918.2	923.0	923.0	925.4	927.8	930.3	930.3	930.3	930.3
5°	920.6	923.0	925.4	932.7	937.5	939.9	944.8	947.2	949.6	949.6	949.6
7.5°	930.3	932.7	937.5	944.8	952.0	956.8	961.7	964.1	966.5	966.5	966.5
10°	944.8	949.6	956.8	966.5	973.7	973.7	976.2	978.6	981.0	981.0	981.0
12.5°	964.1	968.9	981.0	993.1	995.5	993.1	988.2	988.2	985.8	983.4	983.4
15°	995.5	997.9	1014.8	1024.5	1017.2	1005.2	995.5	985.8	978.6	973.7	973.7
17.5°	1039.0	1046.2	1063.1	1063.1	1043.8	1022.1	997.9	973.7	954.4	947.2	944.8
20°	1101.8	1111.5	1126.0	1111.5	1080.1	1041.4	997.9	959.2	920.6	896.4	889.2
22.5°	1171.9	1184.0	1188.8	1157.4	1111.5	1058.3	1000.3	939.9	877.1	823.9	809.4
25°	1254.0	1261.3	1244.4	1193.6	1130.8	1063.1	993.1	913.3	816.7	746.6	739.4
27.5°	1350.7	1343.4	1297.5	1220.2	1135.6	1053.5	966.5	860.2	739.4	686.2	679.0
30°	1454.6	1428.0	1343.4	1234.7	1121.1	1024.5	920.6	780.4	681.4	637.9	633.1
32.5°	1577.8	1524.7	1386.9	1237.1	1094.6	973.7	845.7	715.2	642.7	594.4	589.6
35°	1715.5	1633.4	1425.6	1222.6	1041.4	903.7	756.3	666.9	601.6	555.7	546.1
37.5°	1901.6	1780.8	1473.9	1191.2	973.7	814.3	691.0	616.1	560.6	509.8	502.6
40°	2092.5	1949.9	1541.6	1155.0	898.8	741.8	635.5	579.9	531.6	473.6	461.5
42.5°	2283.4	2119.0	1633.4	1111.5	823.9	686.2	611.3	575.1	517.1	456.7	444.6
45°	2440.4	2264.0	1720.4	1060.7	749.0	635.5	596.8	565.4	507.4	442.2	427.7
47.5°	2575.7	2384.8	1795.3	1014.8	676.5	596.8	584.7	548.5	492.9	427.7	413.2
50°	2689.3	2481.5	1855.7	976.2	616.1	570.2	560.6	517.1	459.1	403.5	393.8
52.5°	2788.3	2551.6	1882.3	964.1	555.7	538.8	521.9	478.4	425.3	374.5	360.0
55°	2853.6	2604.7	1877.4	964.1	497.7	495.3	476.0	442.2	403.5	362.4	347.9
57.5°	2904.3	2628.9	1841.2	823.9	449.4	439.8	427.7	413.2	389.0	343.1	328.6
60°	2928.5	2614.4	1763.9	599.2	401.1	384.2	393.8	389.0	364.9	302.0	292.4
62.5°	2914.0	2570.9	1589.9	437.3	350.4	347.9	362.4	352.8	306.9	251.3	246.5
65°	2858.4	2462.2	1367.6	328.6	321.4	338.3	345.5	326.2	282.7	232.0	212.6
67.5°	2715.9	2251.9	995.5	294.8	311.7	331.0	335.9	309.3	265.8	217.5	193.3
70°	2452.5	1855.7	517.1	273.0	297.2	321.4	318.9	285.1	241.6	198.1	169.1
72.5°	1988.6	1316.9	195.7	244.0	275.5	299.6	294.8	256.1	171.6	123.2	111.1
75°	1290.3	630.6	169.1	210.2	246.5	268.2	270.6	232.0	149.8	103.9	89.4
77.5°	442.2	116.0	137.7	174.0	212.6	241.6	234.4	186.1	116.0	77.3	70.1
80°	74.9	77.3	106.3	123.2	147.4	193.3	164.3	132.9	91.8	55.6	45.9
82.5°	53.2	65.2	74.9	72.5	101.5	128.1	111.1	89.4	60.4	43.5	38.7
85°	38.7	43.5	41.1	43.5	58.0	84.6	77.3	62.8	43.5	31.4	26.6
87.5°	14.5	14.5	19.3	24.2	36.2	53.2	45.9	19.3	16.9	14.5	14.5
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)