

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: P507669

Luminaire Tested: **VERD-S-CA1-70-722-U-T4**

Issue Date: 3/30/2021

Test Information

Test Method: LM-79-08
Report Number: P507669
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-CA1-70-722-U-T4
Description: VERDEON-S ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2200K, 1330mA LED AND TYPE IV OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7964 lumens
Efficiency: N/A
Efficacy: 108.4 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): 73.5
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

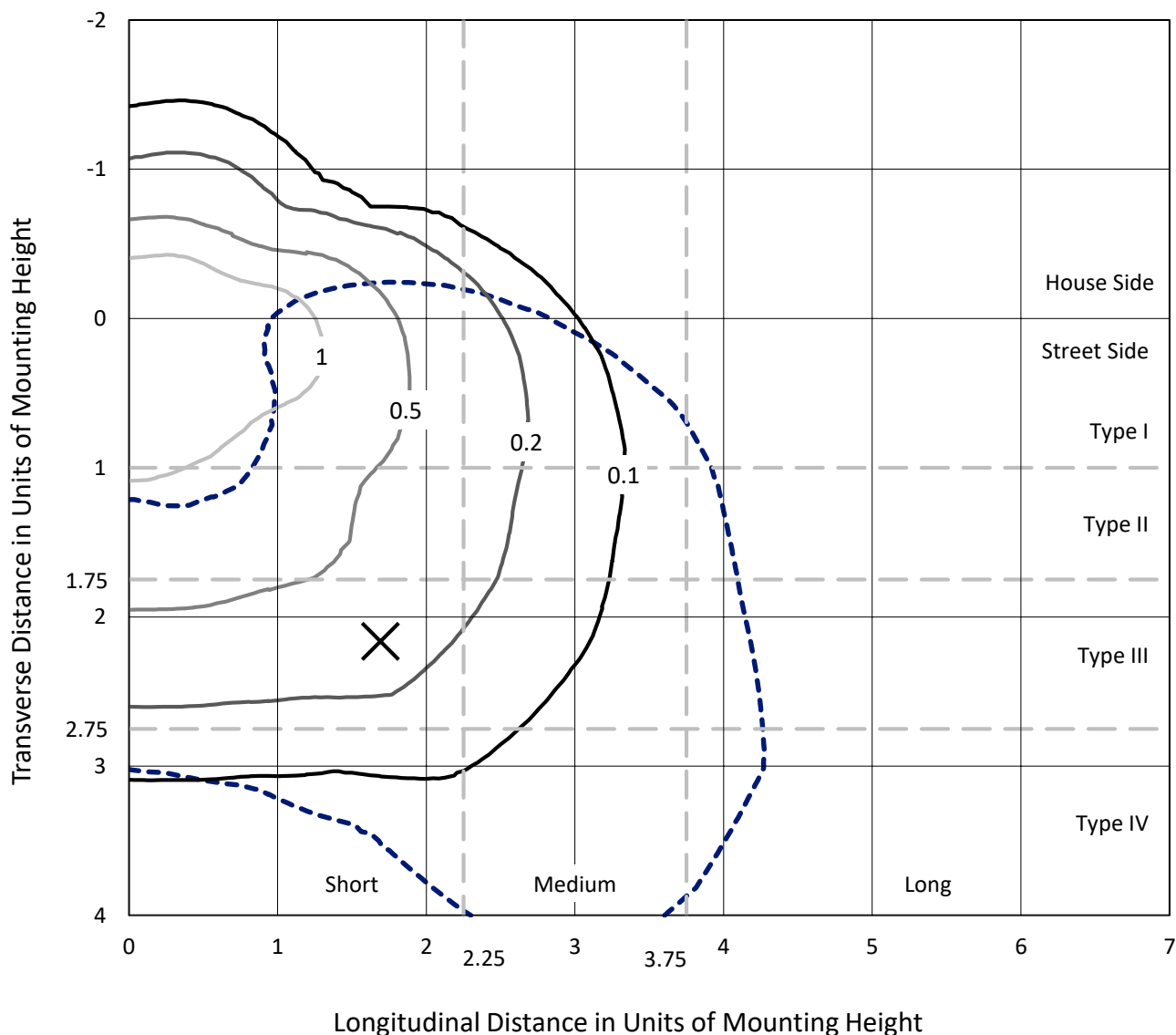


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Iso-Footcandle Lines of Horizontal Illumination

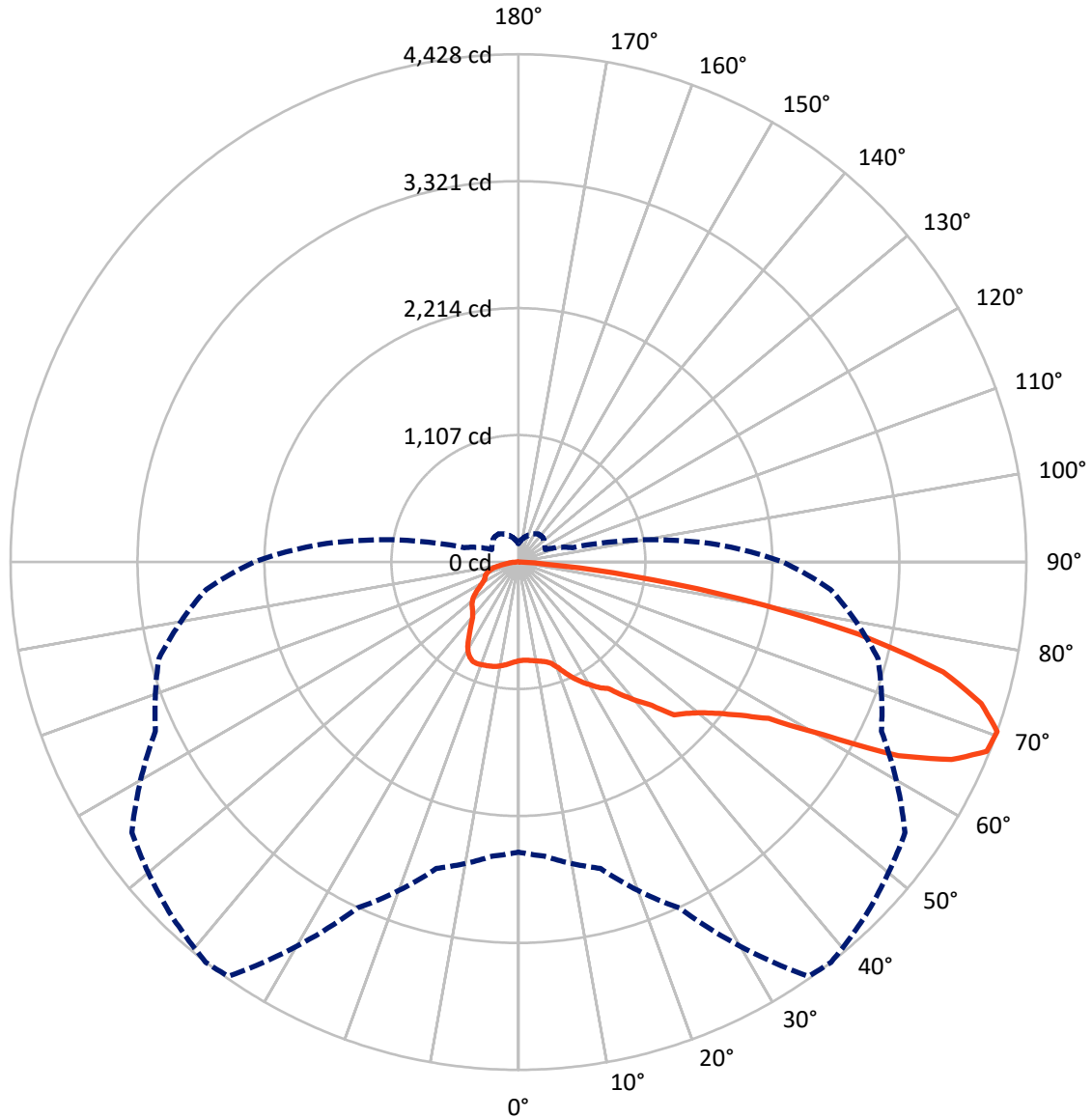
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 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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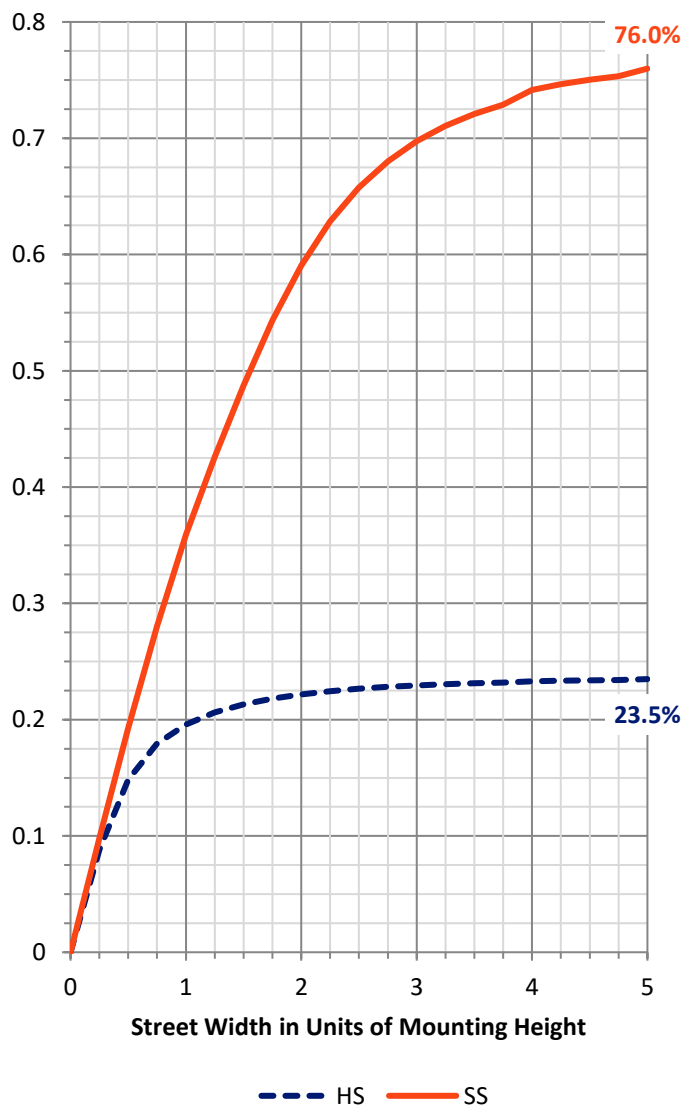
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1891.5	0.0	1891.5
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	6072.5	0.0	6072.5
	% Fixture	76.2	0.0	76.2
Total	Lumens	7964.0	0.0	7964.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.9	1.1
10°-20°	264.4	3.3
20°-30°	490.6	6.2
30°-40°	759.5	9.5
40°-50°	1125.5	14.1
50°-60°	1568.2	19.7
60°-70°	2013.9	25.3
70°-80°	1473.4	18.5
80°-90°	184.6	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°	7964.0	100.0
0°-180°	7964.0	100.0

Coefficient of Utilization



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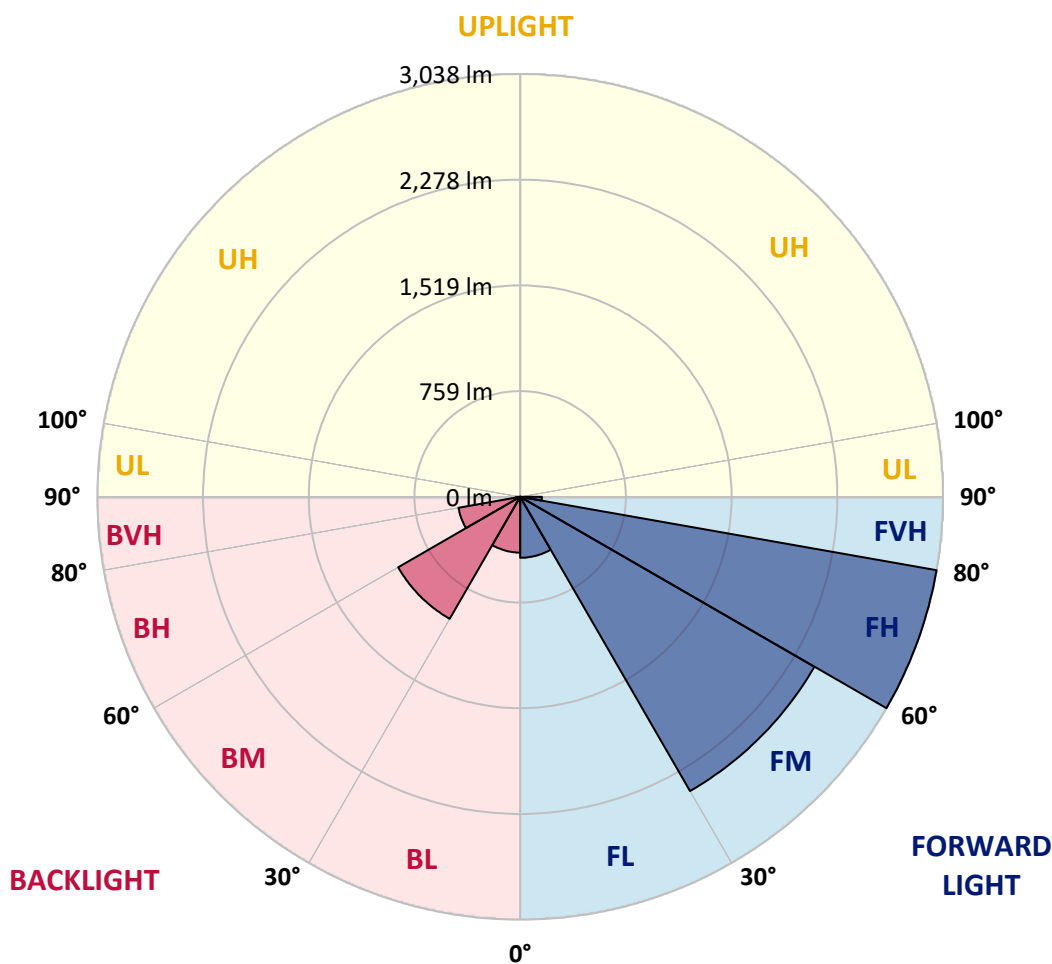
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	438.2	5.5			
FM (30°-60°)	2440.8	30.6			
FH (60°-80°)	3037.5	38.1			G2/5000
FVH (80°-90°)	156.0	2.0			G2/225
BL (0°-30°)	400.7	5.0	B1/500		
BM (30°-60°)	1012.4	12.7	B2/2500		
BH (60°-80°)	449.8	5.6	B1/500		G1/500
BVH (80°-90°)	28.6	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°	860.5	860.5	860.5	860.5	860.5	860.5	860.5	860.5	860.5	860.5	860.5
2.5°	858.3	858.3	858.3	856.0	856.0	856.0	853.7	853.7	856.0	858.3	858.3
5°	865.1	865.1	862.8	862.8	860.5	860.5	860.5	858.3	858.3	858.3	862.8
7.5°	867.4	867.4	867.4	867.4	867.4	867.4	869.6	867.4	867.4	867.4	871.9
10°	867.4	867.4	869.6	869.6	874.2	876.4	878.7	883.2	883.2	883.2	885.5
12.5°	871.9	871.9	874.2	876.4	883.2	887.8	892.3	899.1	901.4	901.4	903.7
15°	881.0	881.0	883.2	890.1	899.1	901.4	908.2	917.3	926.4	928.7	930.9
17.5°	917.3	917.3	917.3	917.3	926.4	928.7	937.7	951.4	960.4	965.0	971.8
20°	990.0	992.2	987.7	985.4	980.9	980.9	980.9	987.7	999.0	1014.9	1026.3
22.5°	1083.1	1083.1	1083.1	1064.9	1053.5	1051.3	1051.3	1049.0	1058.1	1074.0	1089.9
25°	1155.7	1158.0	1155.7	1139.8	1126.2	1121.7	1121.7	1128.5	1128.5	1142.1	1160.3
27.5°	1214.7	1219.3	1212.5	1198.9	1187.5	1185.2	1187.5	1207.9	1219.3	1228.4	1251.1
30°	1278.3	1280.6	1264.7	1255.6	1248.8	1244.3	1246.5	1276.1	1314.7	1326.0	1364.6
32.5°	1396.4	1396.4	1373.7	1321.5	1303.3	1305.6	1305.6	1344.2	1396.4	1448.6	1498.6
35°	1507.7	1505.4	1484.9	1439.5	1371.4	1355.5	1364.6	1405.5	1487.2	1575.8	1664.3
37.5°	1639.3	1634.8	1616.6	1553.1	1496.3	1471.3	1421.4	1475.9	1575.8	1750.6	1841.4
40°	1786.9	1780.1	1739.2	1675.7	1600.7	1589.4	1546.2	1555.3	1687.0	1934.5	2039.0
42.5°	1868.7	1864.1	1836.9	1784.7	1730.2	1707.5	1671.1	1659.8	1836.9	2172.9	2225.1
45°	1945.9	1954.9	1954.9	1930.0	1907.3	1902.7	1877.8	1886.8	2029.9	2368.2	2388.6
47.5°	1993.5	2002.6	1973.1	1968.6	1968.6	1970.8	1995.8	2057.1	2204.7	2552.1	2531.7
50°	2136.6	2129.8	2011.7	2029.9	2050.3	2063.9	2118.4	2216.1	2447.7	2717.9	2656.6
52.5°	2395.4	2334.1	2193.4	2152.5	2163.8	2191.1	2263.7	2390.9	2695.2	2865.4	2765.5
55°	2715.6	2679.3	2552.1	2370.5	2311.4	2356.8	2434.0	2563.5	2885.9	3003.9	2851.8
57.5°	2931.3	2944.9	2960.8	2835.9	2561.2	2572.5	2624.8	2733.8	3076.6	3137.9	2919.9
60°	3149.3	3165.2	3253.7	3221.9	3158.3	3053.9	2863.2	2915.4	3219.7	3226.5	2969.9
62.5°	3321.8	3333.2	3464.9	3537.5	3703.3	3716.9	3419.5	3144.7	3369.5	3296.8	2990.3
65°	3235.5	3256.0	3453.5	3655.6	4112.0	4150.6	4052.9	3439.9	3485.3	3324.1	2974.4
67.5°	2944.9	2974.4	3183.3	3612.5	4373.1	4402.6	4307.2	3996.2	3526.2	3312.7	2897.2
70°	2529.4	2572.5	2765.5	3328.6	4409.4	4427.6	4309.5	4114.2	3492.1	3244.6	2731.5
72.5°	2057.1	2091.2	2286.5	2854.1	4189.2	4218.7	4182.4	4016.6	3419.5	3112.9	2397.7
75°	1575.8	1578.0	1784.7	2236.5	3707.8	3825.9	3887.2	3828.2	3221.9	2738.3	1846.0
77.5°	994.5	1024.0	1235.2	1693.8	2913.1	3033.5	3060.7	2988.1	2254.7	1680.2	794.7
80°	447.3	492.7	708.4	1144.4	1982.2	1977.7	1993.5	1814.2	1201.1	533.6	88.6
82.5°	161.2	170.3	297.4	574.5	960.4	985.4	974.1	837.8	324.7	74.9	54.5
85°	68.1	72.7	97.6	154.4	218.0	231.6	199.8	152.1	52.2	43.1	36.3
87.5°	4.5	4.5	4.5	4.5	4.5	6.8	6.8	6.8	6.8	9.1	11.4
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°	860.5	860.5	860.5	860.5	860.5	860.5	860.5	860.5	860.5	860.5	860.5
2.5°	858.3	860.5	862.8	867.4	867.4	869.6	871.9	874.2	874.2	874.2	874.2
5°	865.1	867.4	869.6	876.4	881.0	883.2	887.8	890.1	892.3	892.3	892.3
7.5°	874.2	876.4	881.0	887.8	894.6	899.1	903.7	906.0	908.2	908.2	908.2
10°	887.8	892.3	899.1	908.2	915.0	915.0	917.3	919.6	921.8	921.8	921.8
12.5°	906.0	910.5	921.8	933.2	935.5	933.2	928.7	928.7	926.4	924.1	924.1
15°	935.5	937.7	953.6	962.7	955.9	944.6	935.5	926.4	919.6	915.0	915.0
17.5°	976.3	983.2	999.0	999.0	980.9	960.4	937.7	915.0	896.9	890.1	887.8
20°	1035.4	1044.5	1058.1	1044.5	1014.9	978.6	937.7	901.4	865.1	842.4	835.6
22.5°	1101.2	1112.6	1117.1	1087.6	1044.5	994.5	940.0	883.2	824.2	774.3	760.6
25°	1178.4	1185.2	1169.3	1121.7	1062.6	999.0	933.2	858.3	767.4	701.6	694.8
27.5°	1269.2	1262.4	1219.3	1146.6	1067.2	990.0	908.2	808.3	694.8	644.8	638.0
30°	1366.9	1341.9	1262.4	1160.3	1053.5	962.7	865.1	733.4	640.3	599.4	594.9
32.5°	1482.7	1432.7	1303.3	1162.5	1028.6	915.0	794.7	672.1	604.0	558.6	554.0
35°	1612.1	1534.9	1339.6	1148.9	978.6	849.2	710.7	626.7	565.4	522.2	513.1
37.5°	1786.9	1673.4	1385.0	1119.4	915.0	765.2	649.4	579.0	526.8	479.1	472.3
40°	1966.3	1832.3	1448.6	1085.3	844.6	697.1	597.2	544.9	499.5	445.0	433.7
42.5°	2145.7	1991.3	1534.9	1044.5	774.3	644.8	574.5	540.4	485.9	429.1	417.8
45°	2293.3	2127.5	1616.6	996.8	703.9	597.2	560.8	531.3	476.8	415.5	401.9
47.5°	2420.4	2241.0	1687.0	953.6	635.8	560.8	549.5	515.4	463.2	401.9	388.3
50°	2527.1	2331.9	1743.8	917.3	579.0	535.9	526.8	485.9	431.4	379.2	370.1
52.5°	2620.2	2397.7	1768.8	906.0	522.2	506.3	490.4	449.6	399.6	351.9	338.3
55°	2681.5	2447.7	1764.2	906.0	467.7	465.5	447.3	415.5	379.2	340.6	327.0
57.5°	2729.2	2470.4	1730.2	774.3	422.3	413.2	401.9	388.3	365.6	322.4	308.8
60°	2751.9	2456.7	1657.5	563.1	376.9	361.0	370.1	365.6	342.9	283.8	274.7
62.5°	2738.3	2415.9	1494.0	411.0	329.2	327.0	340.6	331.5	288.4	236.1	231.6
65°	2686.1	2313.7	1285.1	308.8	302.0	317.9	324.7	306.5	265.7	218.0	199.8
67.5°	2552.1	2116.2	935.5	277.0	292.9	311.1	315.6	290.6	249.8	204.4	181.6
70°	2304.6	1743.8	485.9	256.6	279.3	302.0	299.7	267.9	227.1	186.2	158.9
72.5°	1868.7	1237.5	183.9	229.3	258.8	281.5	277.0	240.7	161.2	115.8	104.4
75°	1212.5	592.6	158.9	197.5	231.6	252.0	254.3	218.0	140.8	97.6	84.0
77.5°	415.5	109.0	129.4	163.5	199.8	227.1	220.2	174.8	109.0	72.7	65.8
80°	70.4	72.7	99.9	115.8	138.5	181.6	154.4	124.9	86.3	52.2	43.1
82.5°	50.0	61.3	70.4	68.1	95.4	120.3	104.4	84.0	56.8	40.9	36.3
85°	36.3	40.9	38.6	40.9	54.5	79.5	72.7	59.0	40.9	29.5	25.0
87.5°	13.6	13.6	18.2	22.7	34.1	50.0	43.1	18.2	15.9	13.6	13.6
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)