

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: P507621

Luminaire Tested: **VERD-S-CA1-60-722-U-T4**

Issue Date: 3/30/2021

Test Information

Test Method: LM-79-08
Report Number: P507621
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-CA1-60-722-U-T4
Description: VERDEON-S ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2200K, 1150mA LED AND TYPE IV OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7034 lumens
Efficiency: N/A
Efficacy: 111.1 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

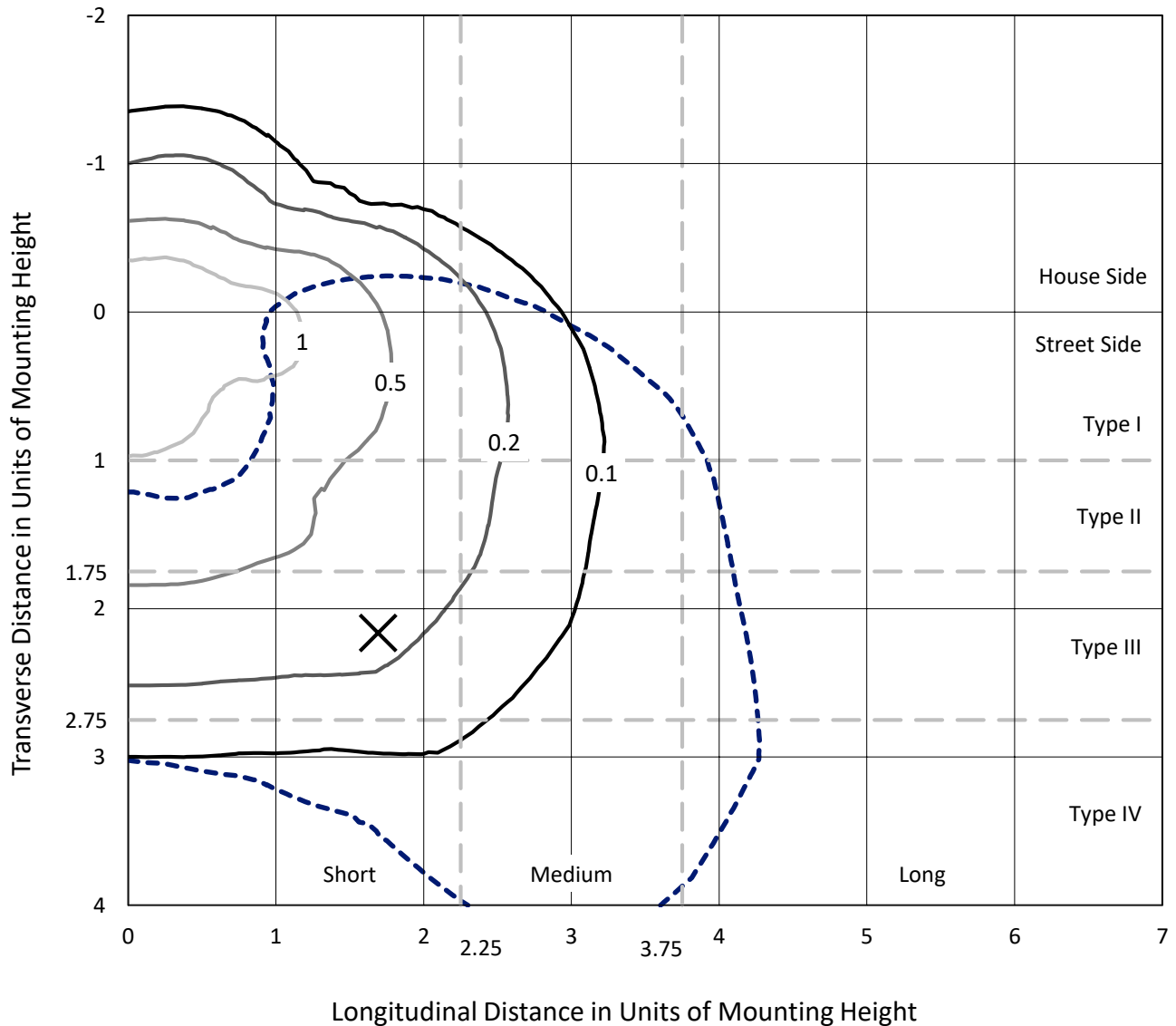
Input Watts (W): 63.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

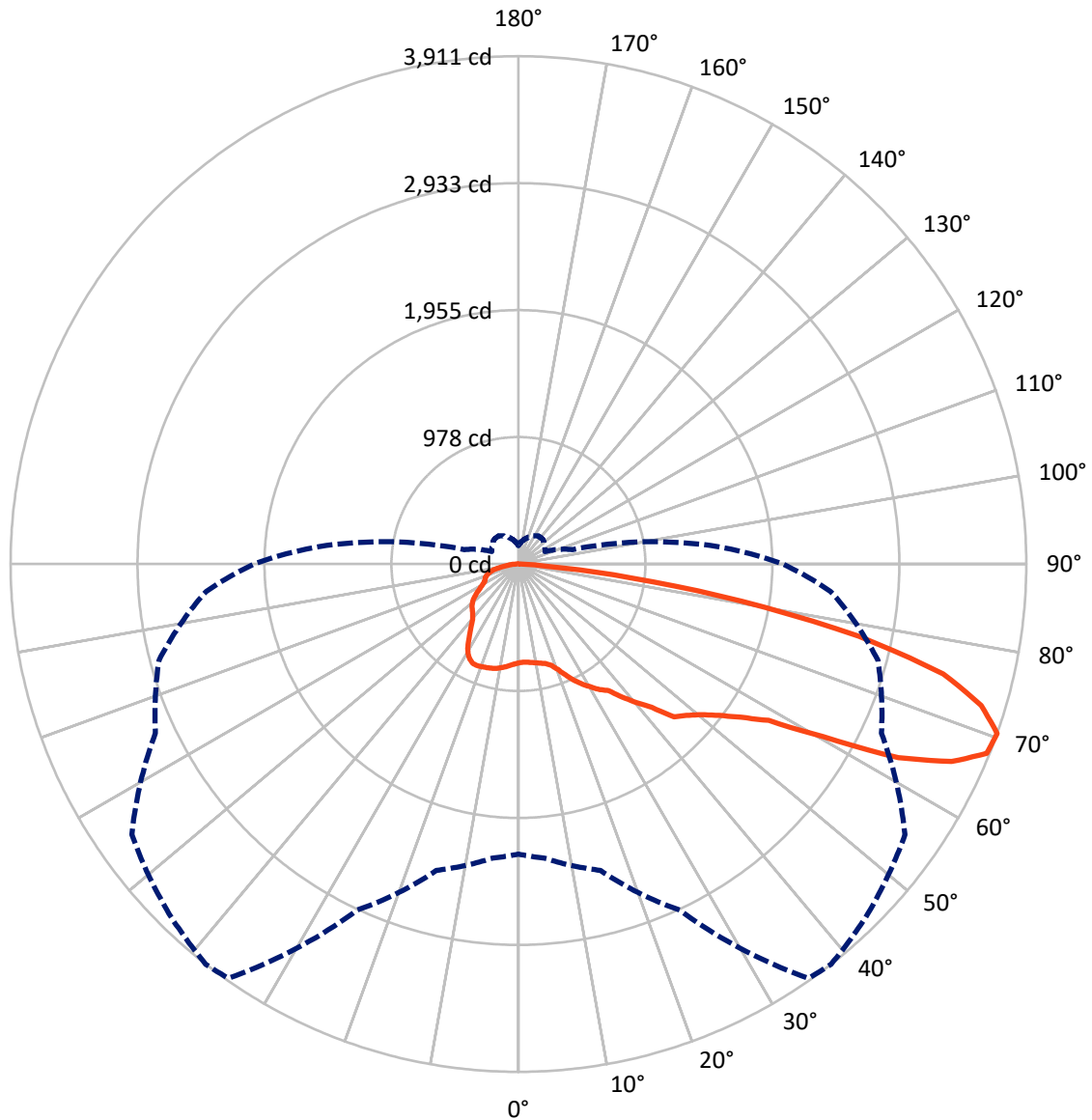
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 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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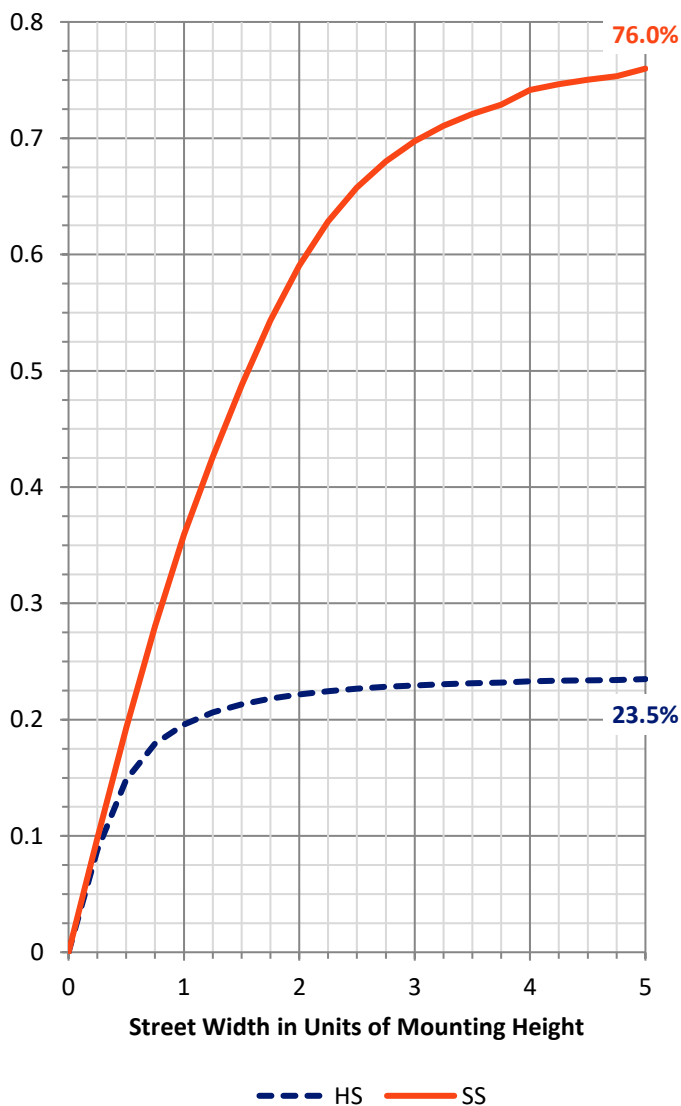
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1670.6	0.0	1670.6
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	5363.4	0.0	5363.4
	% Fixture	76.2	0.0	76.2
Total	Lumens	7034.0	0.0	7034.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.1	1.1
10°-20°	233.5	3.3
20°-30°	433.3	6.2
30°-40°	670.8	9.5
40°-50°	994.0	14.1
50°-60°	1385.1	19.7
60°-70°	1778.7	25.3
70°-80°	1301.4	18.5
80°-90°	163.0	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°	7034.0	100.0
0°-180°	7034.0	100.0

Coefficient of Utilization



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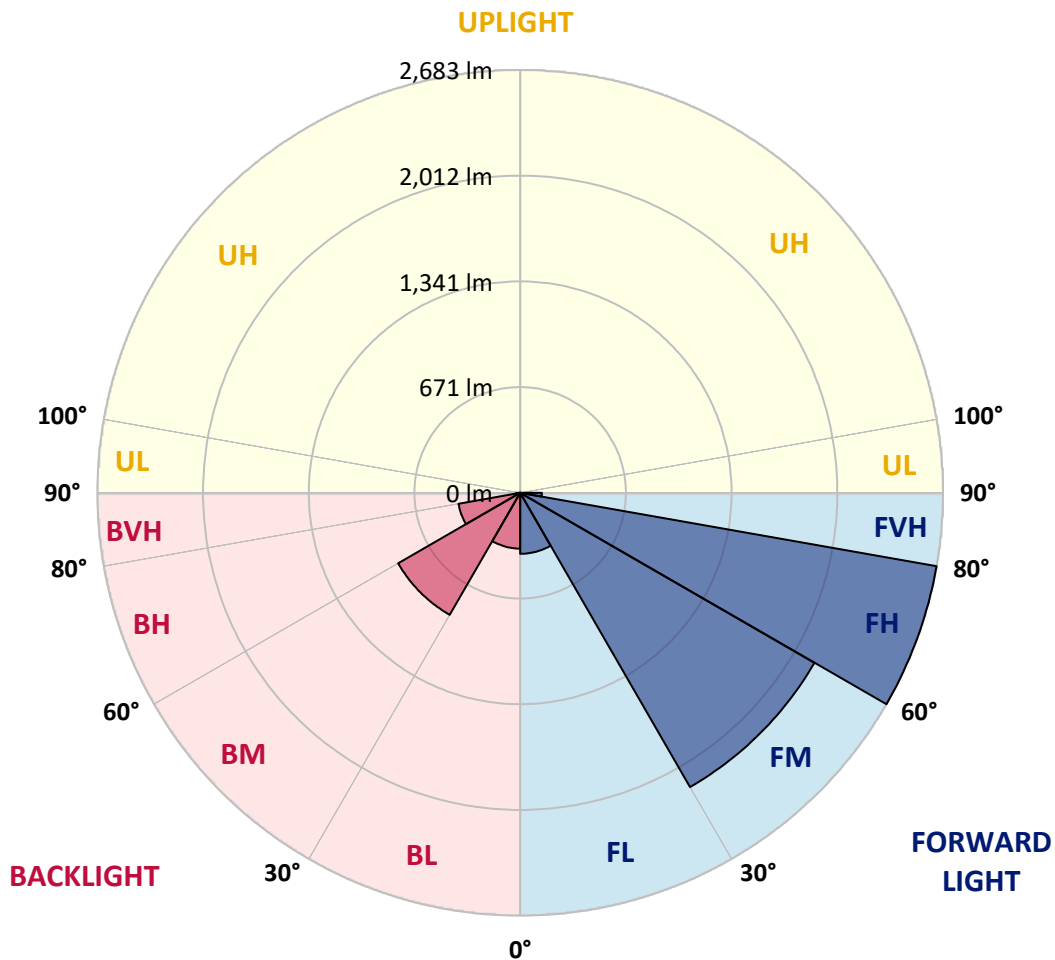
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	387.0	5.5			
FM (30°-60°)	2155.7	30.6			
FH (60°-80°)	2682.8	38.1			G2/5000
FVH (80°-90°)	137.7	2.0			G2/225
BL (0°-30°)	353.9	5.0	B1/500		
BM (30°-60°)	894.2	12.7	B1/1000		
BH (60°-80°)	397.3	5.6	B1/500		G1/500
BVH (80°-90°)	25.3	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°	760.1	760.1	760.1	760.1	760.1	760.1	760.1	760.1	760.1	760.1	760.1
2.5°	758.0	758.0	758.0	756.0	756.0	756.0	754.0	754.0	756.0	758.0	758.0
5°	764.1	764.1	762.1	762.1	760.1	760.1	760.1	758.0	758.0	758.0	762.1
7.5°	766.1	766.1	766.1	766.1	766.1	766.1	768.1	766.1	766.1	766.1	770.1
10°	766.1	766.1	768.1	768.1	772.1	774.1	776.1	780.1	780.1	780.1	782.1
12.5°	770.1	770.1	772.1	774.1	780.1	784.1	788.1	794.1	796.1	796.1	798.2
15°	778.1	778.1	780.1	786.1	794.1	796.1	802.2	810.2	818.2	820.2	822.2
17.5°	810.2	810.2	810.2	810.2	818.2	820.2	828.2	840.3	848.3	852.3	858.3
20°	874.4	876.4	872.4	870.3	866.3	866.3	866.3	872.4	882.4	896.4	906.4
22.5°	956.6	956.6	956.6	940.5	930.5	928.5	928.5	926.5	934.5	948.6	962.6
25°	1020.8	1022.8	1020.8	1006.7	994.7	990.7	990.7	996.7	996.7	1008.7	1024.8
27.5°	1072.9	1076.9	1070.9	1058.9	1048.8	1046.8	1048.8	1066.9	1076.9	1084.9	1105.0
30°	1129.0	1131.1	1117.0	1109.0	1103.0	1099.0	1101.0	1127.0	1161.1	1171.2	1205.3
32.5°	1233.3	1233.3	1213.3	1167.1	1151.1	1153.1	1153.1	1187.2	1233.3	1279.5	1323.6
35°	1331.6	1329.6	1311.5	1271.4	1211.3	1197.2	1205.3	1241.3	1313.5	1391.8	1470.0
37.5°	1447.9	1443.9	1427.9	1371.7	1321.6	1299.5	1255.4	1303.5	1391.8	1546.2	1626.4
40°	1578.3	1572.2	1536.1	1480.0	1413.8	1403.8	1365.7	1373.7	1490.0	1708.6	1800.9
42.5°	1650.5	1646.4	1622.4	1576.3	1528.1	1508.1	1476.0	1466.0	1622.4	1919.2	1965.3
45°	1718.6	1726.7	1726.7	1704.6	1684.5	1680.5	1658.5	1666.5	1792.8	2091.6	2109.7
47.5°	1760.8	1768.8	1742.7	1738.7	1738.7	1740.7	1762.8	1816.9	1947.3	2254.1	2236.0
50°	1887.1	1881.1	1776.8	1792.8	1810.9	1822.9	1871.0	1957.3	2161.8	2400.5	2346.3
52.5°	2115.7	2061.6	1937.2	1901.1	1911.2	1935.2	1999.4	2111.7	2380.4	2530.8	2442.6
55°	2398.5	2366.4	2254.1	2093.6	2041.5	2081.6	2149.8	2264.1	2548.9	2653.2	2518.8
57.5°	2589.0	2601.0	2615.1	2504.8	2262.1	2272.1	2318.3	2414.5	2717.3	2771.5	2579.0
60°	2781.5	2795.5	2873.8	2845.7	2789.5	2697.3	2528.8	2574.9	2843.7	2849.7	2623.1
62.5°	2933.9	2943.9	3060.3	3124.4	3270.8	3282.9	3020.2	2777.5	2976.0	2911.9	2641.1
65°	2857.7	2875.8	3050.2	3228.7	3631.8	3665.9	3579.7	3038.2	3078.3	2935.9	2627.1
67.5°	2601.0	2627.1	2811.6	3190.6	3862.4	3888.5	3804.3	3529.5	3114.4	2925.9	2558.9
70°	2234.0	2272.1	2442.6	2939.9	3894.5	3910.6	3806.3	3633.8	3084.3	2865.7	2412.5
72.5°	1816.9	1847.0	2019.4	2520.8	3700.0	3726.1	3694.0	3547.6	3020.2	2749.4	2117.7
75°	1391.8	1393.8	1576.3	1975.3	3274.8	3379.1	3433.3	3381.1	2845.7	2418.5	1630.4
77.5°	878.4	904.4	1090.9	1496.0	2572.9	2679.2	2703.3	2639.1	1991.4	1484.0	701.9
80°	395.1	435.2	625.7	1010.7	1750.7	1746.7	1760.8	1602.3	1060.9	471.3	78.2
82.5°	142.4	150.4	262.7	507.4	848.3	870.3	860.3	740.0	286.8	66.2	48.1
85°	60.2	64.2	86.2	136.4	192.5	204.6	176.5	134.4	46.1	38.1	32.1
87.5°	4.0	4.0	4.0	4.0	4.0	6.0	6.0	6.0	6.0	8.0	10.0
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°	760.1	760.1	760.1	760.1	760.1	760.1	760.1	760.1	760.1	760.1	760.1
2.5°	758.0	760.1	762.1	766.1	766.1	768.1	770.1	772.1	772.1	772.1	772.1
5°	764.1	766.1	768.1	774.1	778.1	780.1	784.1	786.1	788.1	788.1	788.1
7.5°	772.1	774.1	778.1	784.1	790.1	794.1	798.2	800.2	802.2	802.2	802.2
10°	784.1	788.1	794.1	802.2	808.2	808.2	810.2	812.2	814.2	814.2	814.2
12.5°	800.2	804.2	814.2	824.2	826.2	824.2	820.2	820.2	818.2	816.2	816.2
15°	826.2	828.2	842.3	850.3	844.3	834.3	826.2	818.2	812.2	808.2	808.2
17.5°	862.3	868.3	882.4	882.4	866.3	848.3	828.2	808.2	792.1	786.1	784.1
20°	914.5	922.5	934.5	922.5	896.4	864.3	828.2	796.1	764.1	744.0	738.0
22.5°	972.6	982.7	986.7	960.6	922.5	878.4	830.2	780.1	728.0	683.8	671.8
25°	1040.8	1046.8	1032.8	990.7	938.5	882.4	824.2	758.0	677.8	619.7	613.7
27.5°	1121.0	1115.0	1076.9	1012.7	942.5	874.4	802.2	713.9	613.7	569.5	563.5
30°	1207.3	1185.2	1115.0	1024.8	930.5	850.3	764.1	647.7	565.5	529.4	525.4
32.5°	1309.5	1265.4	1151.1	1026.8	908.5	808.2	701.9	593.6	533.4	493.3	489.3
35°	1423.8	1355.7	1183.2	1014.7	864.3	750.0	627.7	553.5	499.3	461.2	453.2
37.5°	1578.3	1478.0	1223.3	988.7	808.2	675.8	573.5	511.4	465.3	423.1	417.1
40°	1736.7	1618.4	1279.5	958.6	746.0	615.7	527.4	481.3	441.2	393.1	383.0
42.5°	1895.1	1758.7	1355.7	922.5	683.8	569.5	507.4	477.3	429.2	379.0	369.0
45°	2025.5	1879.1	1427.9	880.4	621.7	527.4	495.3	469.3	421.1	367.0	355.0
47.5°	2137.8	1979.3	1490.0	842.3	561.5	495.3	485.3	455.2	409.1	355.0	342.9
50°	2232.0	2059.6	1540.2	810.2	511.4	473.3	465.3	429.2	381.0	334.9	326.9
52.5°	2314.2	2117.7	1562.2	800.2	461.2	447.2	433.2	397.1	353.0	310.8	298.8
55°	2368.4	2161.8	1558.2	800.2	413.1	411.1	395.1	367.0	334.9	300.8	288.8
57.5°	2410.5	2181.9	1528.1	683.8	373.0	365.0	355.0	342.9	322.9	284.8	272.7
60°	2430.6	2169.9	1464.0	497.3	332.9	318.9	326.9	322.9	302.8	250.7	242.7
62.5°	2418.5	2133.8	1319.6	363.0	290.8	288.8	300.8	292.8	254.7	208.6	204.6
65°	2372.4	2043.5	1135.1	272.7	266.7	280.8	286.8	270.7	234.6	192.5	176.5
67.5°	2254.1	1869.0	826.2	244.7	258.7	274.7	278.8	256.7	220.6	180.5	160.4
70°	2035.5	1540.2	429.2	226.6	246.7	266.7	264.7	236.6	200.5	164.4	140.4
72.5°	1650.5	1092.9	162.4	202.5	228.6	248.7	244.7	212.6	142.4	102.3	92.2
75°	1070.9	523.4	140.4	174.5	204.6	222.6	224.6	192.5	124.3	86.2	74.2
77.5°	367.0	96.3	114.3	144.4	176.5	200.5	194.5	154.4	96.3	64.2	58.2
80°	62.2	64.2	88.2	102.3	122.3	160.4	136.4	110.3	76.2	46.1	38.1
82.5°	44.1	54.1	62.2	60.2	84.2	106.3	92.2	74.2	50.1	36.1	32.1
85°	32.1	36.1	34.1	36.1	48.1	70.2	64.2	52.1	36.1	26.1	22.1
87.5°	12.0	12.0	16.0	20.1	30.1	44.1	38.1	16.0	14.0	12.0	12.0
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)