

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: P507597

Luminaire Tested: **VERD-S-CA1-50-740-U-T4**

Issue Date: 3/30/2021

Test Information

Test Method: LM-79-08
Report Number: P507597
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-CA1-50-740-U-T4
Description: VERDEON-S ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 4000K, 940mA LED AND TYPE IV OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7349 lumens
Efficiency: N/A
Efficacy: 137.4 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

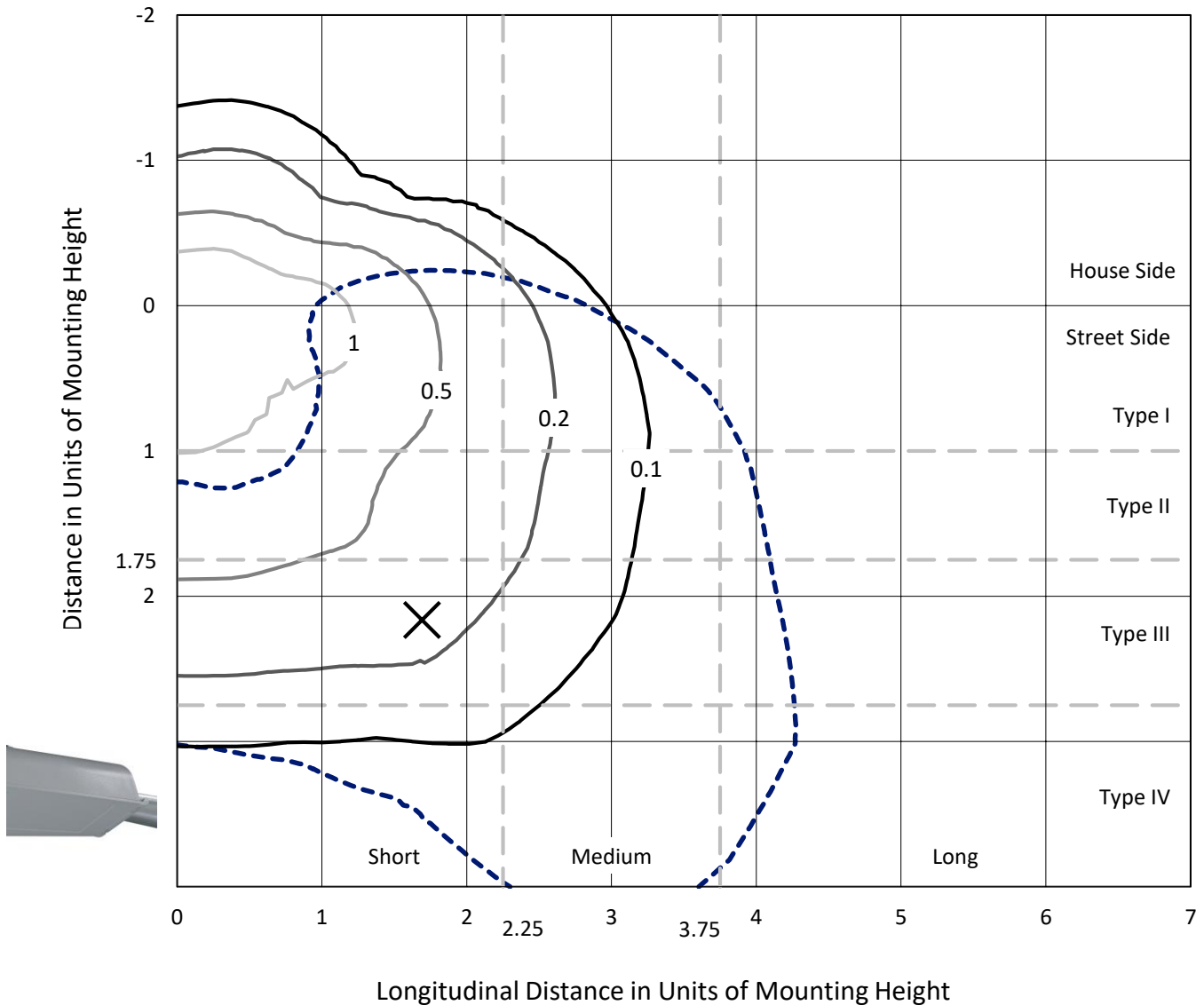
Input Watts (W): 53.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

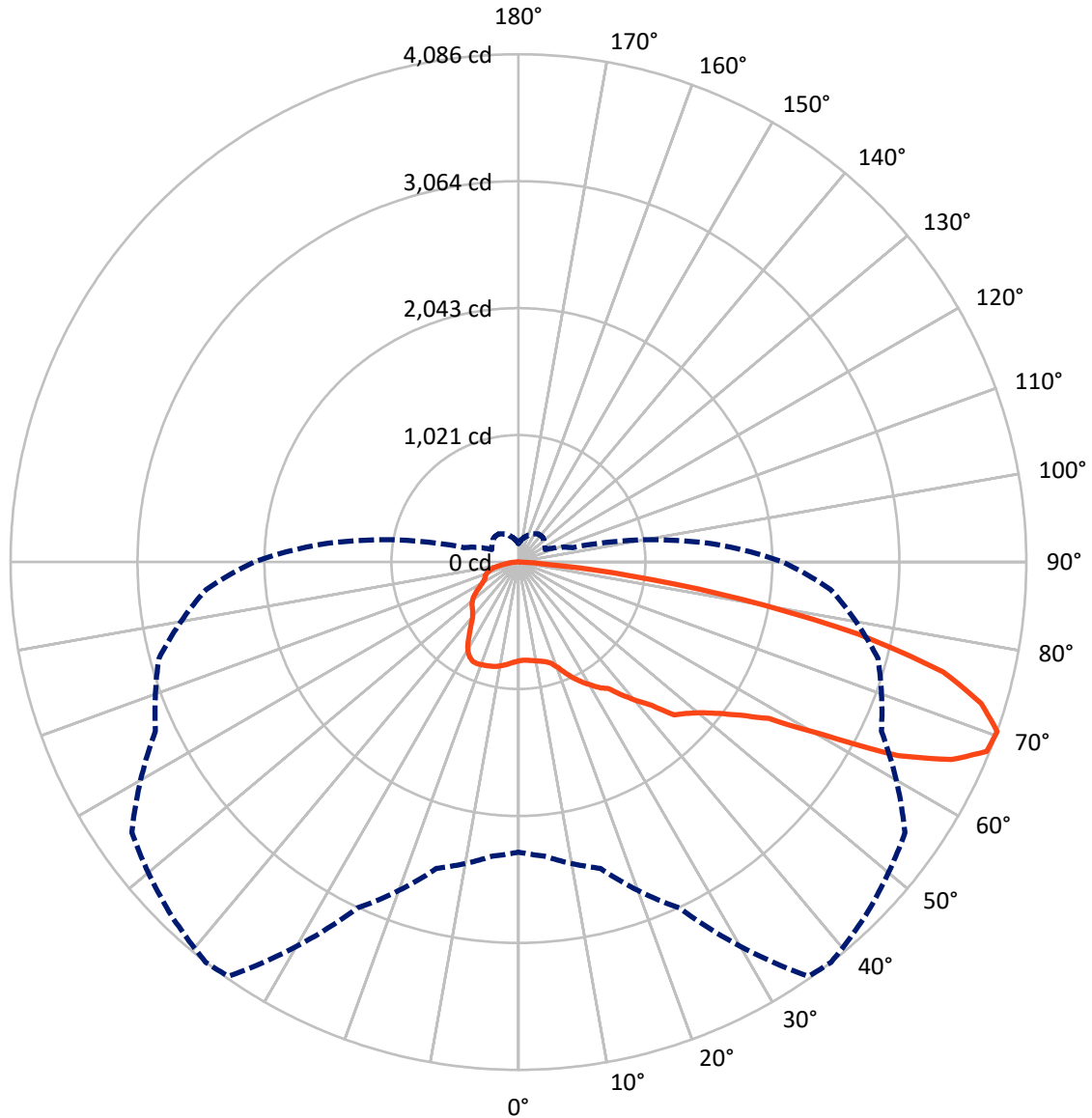
× Max cd
 - - - 1/2 Max cd



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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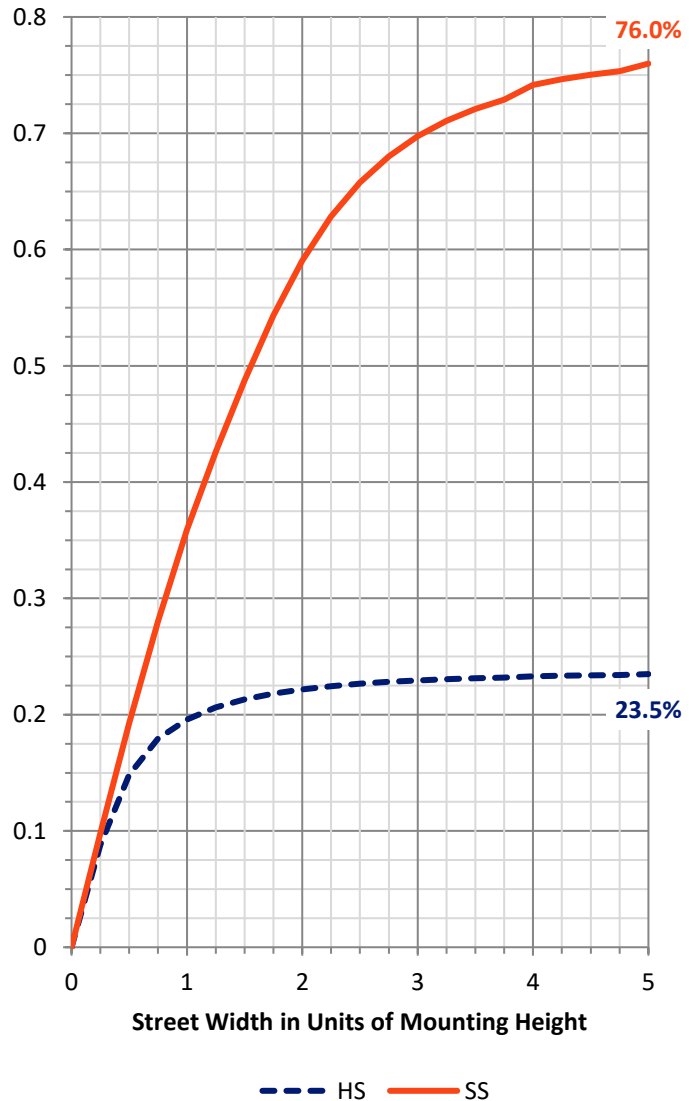
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1745.5	0.0	1745.5
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	5603.5	0.0	5603.5
	% Fixture	76.2	0.0	76.2
Total	Lumens	7349.0	0.0	7349.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.4	1.1
10°-20°	244.0	3.3
20°-30°	452.7	6.2
30°-40°	700.9	9.5
40°-50°	1038.6	14.1
50°-60°	1447.1	19.7
60°-70°	1858.4	25.3
70°-80°	1359.6	18.5
80°-90°	170.3	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°	7349.0	100.0
0°-180°	7349.0	100.0



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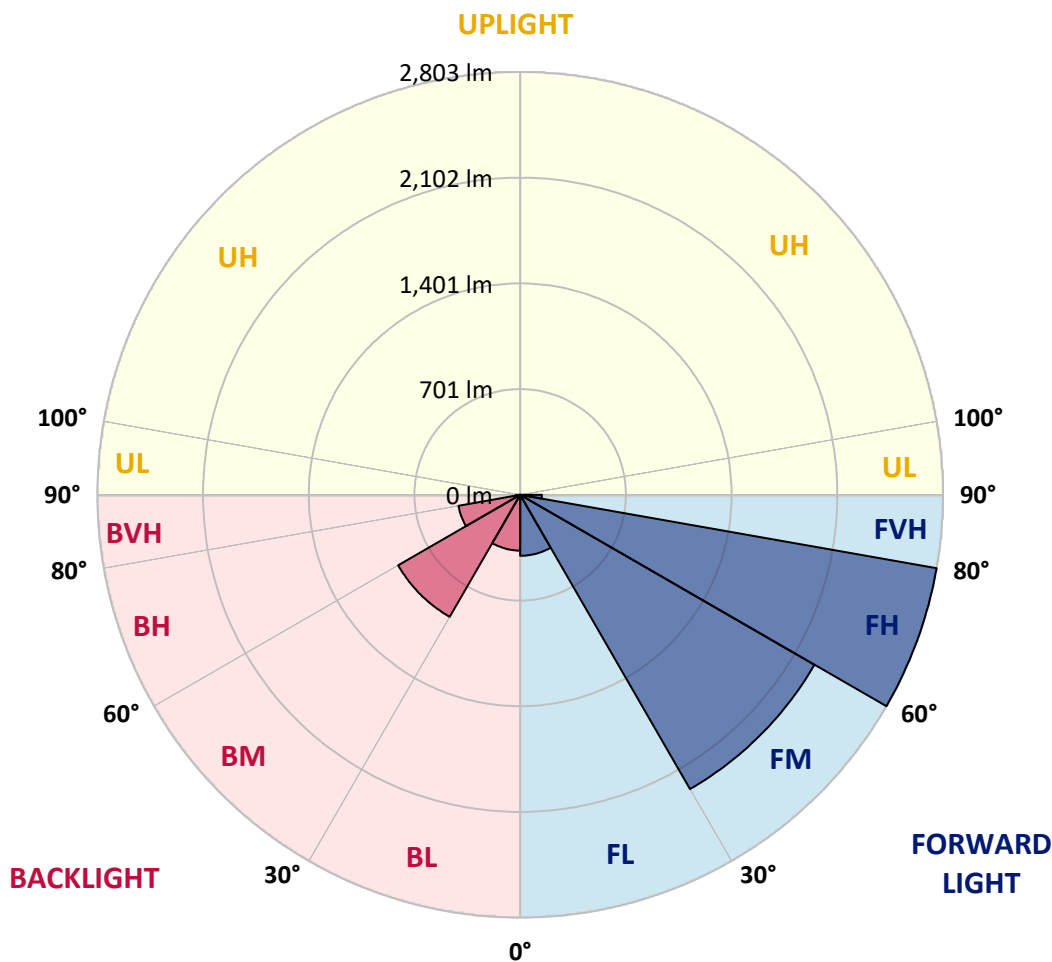
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	404.4	5.5			
FM	(30°-60°)	2252.3	30.6			
FH	(60°-80°)	2803.0	38.1			G2/5000
FVH	(80°-90°)	143.9	2.0			G2/225
BL	(0°-30°)	369.8	5.0	B1/500		
BM	(30°-60°)	934.2	12.7	B1/1000		
BH	(60°-80°)	415.1	5.6	B1/500		G1/500
BVH	(80°-90°)	26.4	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°	794.1	794.1	794.1	794.1	794.1	794.1	794.1	794.1	794.1	794.1	794.1
2.5°	792.0	792.0	792.0	789.9	789.9	789.9	787.8	787.8	789.9	792.0	792.0
5°	798.3	798.3	796.2	796.2	794.1	794.1	794.1	792.0	792.0	792.0	796.2
7.5°	800.4	800.4	800.4	800.4	800.4	800.4	802.5	800.4	800.4	800.4	804.6
10°	800.4	800.4	802.5	802.5	806.7	808.8	810.8	815.0	815.0	815.0	817.1
12.5°	804.6	804.6	806.7	808.8	815.0	819.2	823.4	829.7	831.8	831.8	833.9
15°	812.9	812.9	815.0	821.3	829.7	831.8	838.1	846.5	854.8	856.9	859.0
17.5°	846.5	846.5	846.5	846.5	854.8	856.9	865.3	877.9	886.3	890.5	896.8
20°	913.5	915.6	911.4	909.3	905.1	905.1	905.1	911.4	921.9	936.6	947.0
22.5°	999.4	999.4	999.4	982.7	972.2	970.1	970.1	968.0	976.4	991.0	1005.7
25°	1066.5	1068.6	1066.5	1051.8	1039.2	1035.0	1035.0	1041.3	1041.3	1053.9	1070.7
27.5°	1120.9	1125.1	1118.8	1106.3	1095.8	1093.7	1095.8	1114.7	1125.1	1133.5	1154.5
30°	1179.6	1181.7	1167.0	1158.7	1152.4	1148.2	1150.3	1177.5	1213.1	1223.6	1259.2
32.5°	1288.6	1288.6	1267.6	1219.4	1202.7	1204.8	1204.8	1240.4	1288.6	1336.7	1382.8
35°	1391.2	1389.1	1370.3	1328.4	1265.5	1250.8	1259.2	1296.9	1372.4	1454.1	1535.8
37.5°	1512.7	1508.6	1491.8	1433.1	1380.7	1357.7	1311.6	1361.9	1454.1	1615.4	1699.2
40°	1648.9	1642.7	1604.9	1546.3	1477.1	1466.7	1426.8	1435.2	1556.7	1785.1	1881.5
42.5°	1724.4	1720.2	1695.0	1646.8	1596.6	1575.6	1542.1	1531.6	1695.0	2005.1	2053.3
45°	1795.6	1804.0	1804.0	1780.9	1760.0	1755.8	1732.7	1741.1	1873.1	2185.3	2204.2
47.5°	1839.6	1848.0	1820.7	1816.6	1816.6	1818.7	1841.7	1898.3	2034.5	2355.0	2336.2
50°	1971.6	1965.3	1856.4	1873.1	1892.0	1904.6	1954.8	2044.9	2258.6	2508.0	2451.4
52.5°	2210.5	2153.9	2024.0	1986.3	1996.7	2021.9	2088.9	2206.3	2487.0	2644.2	2552.0
55°	2505.9	2472.4	2355.0	2187.4	2132.9	2174.8	2246.1	2365.5	2663.0	2772.0	2631.6
57.5°	2704.9	2717.5	2732.2	2616.9	2363.4	2373.9	2422.1	2522.6	2839.0	2895.6	2694.5
60°	2906.1	2920.7	3002.4	2973.1	2914.4	2818.1	2642.1	2690.3	2971.0	2977.3	2740.5
62.5°	3065.3	3075.8	3197.3	3264.4	3417.3	3429.9	3155.4	2901.9	3109.3	3042.3	2759.4
65°	2985.7	3004.5	3186.8	3373.3	3794.4	3830.1	3740.0	3174.3	3216.2	3067.4	2744.7
67.5°	2717.5	2744.7	2937.5	3333.5	4035.4	4062.6	3974.6	3687.6	3253.9	3056.9	2673.5
70°	2334.1	2373.9	2552.0	3071.6	4068.9	4085.7	3976.7	3796.5	3222.4	2994.1	2520.5
72.5°	1898.3	1929.7	2109.9	2633.7	3865.7	3892.9	3859.4	3706.4	3155.4	2872.5	2212.6
75°	1454.1	1456.2	1646.8	2063.8	3421.5	3530.4	3587.0	3532.5	2973.1	2526.8	1703.4
77.5°	917.7	944.9	1139.8	1563.0	2688.2	2799.2	2824.4	2757.3	2080.6	1550.5	733.3
80°	412.8	454.7	653.7	1056.0	1829.1	1824.9	1839.6	1674.1	1108.4	492.4	81.7
82.5°	148.8	157.1	274.5	530.1	886.3	909.3	898.8	773.1	299.6	69.1	50.3
85°	62.9	67.0	90.1	142.5	201.1	213.7	184.4	140.4	48.2	39.8	33.5
87.5°	4.2	4.2	4.2	4.2	4.2	6.3	6.3	6.3	6.3	8.4	10.5
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°	794.1	794.1	794.1	794.1	794.1	794.1	794.1	794.1	794.1	794.1	794.1
2.5°	792.0	794.1	796.2	800.4	800.4	802.5	804.6	806.7	806.7	806.7	806.7
5°	798.3	800.4	802.5	808.8	812.9	815.0	819.2	821.3	823.4	823.4	823.4
7.5°	806.7	808.8	812.9	819.2	825.5	829.7	833.9	836.0	838.1	838.1	838.1
10°	819.2	823.4	829.7	838.1	844.4	844.4	846.5	848.6	850.7	850.7	850.7
12.5°	836.0	840.2	850.7	861.1	863.2	861.1	856.9	856.9	854.8	852.8	852.8
15°	863.2	865.3	880.0	888.4	882.1	871.6	863.2	854.8	848.6	844.4	844.4
17.5°	900.9	907.2	921.9	921.9	905.1	886.3	865.3	844.4	827.6	821.3	819.2
20°	955.4	963.8	976.4	963.8	936.6	903.0	865.3	831.8	798.3	777.3	771.0
22.5°	1016.2	1026.7	1030.8	1003.6	963.8	917.7	867.4	815.0	760.6	714.5	701.9
25°	1087.4	1093.7	1079.0	1035.0	980.6	921.9	861.1	792.0	708.2	647.4	641.1
27.5°	1171.2	1164.9	1125.1	1058.1	984.8	913.5	838.1	745.9	641.1	595.0	588.8
30°	1261.3	1238.3	1164.9	1070.7	972.2	888.4	798.3	676.8	590.9	553.1	548.9
32.5°	1368.2	1322.1	1202.7	1072.8	949.1	844.4	733.3	620.2	557.3	515.4	511.2
35°	1487.6	1416.4	1236.2	1060.2	903.0	783.6	655.8	578.3	521.7	481.9	473.5
37.5°	1648.9	1544.2	1278.1	1032.9	844.4	706.1	599.2	534.3	486.1	442.1	435.8
40°	1814.5	1690.8	1336.7	1001.5	779.4	643.2	551.0	502.9	460.9	410.7	400.2
42.5°	1980.0	1837.5	1416.4	963.8	714.5	595.0	530.1	498.7	448.4	396.0	385.5
45°	2116.2	1963.2	1491.8	919.8	649.5	551.0	517.5	490.3	440.0	383.4	370.9
47.5°	2233.5	2068.0	1556.7	880.0	586.7	517.5	507.0	475.6	427.4	370.9	358.3
50°	2332.0	2151.8	1609.1	846.5	534.3	494.5	486.1	448.4	398.1	349.9	341.5
52.5°	2417.9	2212.6	1632.2	836.0	481.9	467.2	452.6	414.9	368.8	324.8	312.2
55°	2474.5	2258.6	1628.0	836.0	431.6	429.5	412.8	383.4	349.9	314.3	301.7
57.5°	2518.5	2279.6	1596.6	714.5	389.7	381.3	370.9	358.3	337.3	297.5	284.9
60°	2539.4	2267.0	1529.5	519.6	347.8	333.1	341.5	337.3	316.4	261.9	253.5
62.5°	2526.8	2229.3	1378.7	379.2	303.8	301.7	314.3	305.9	266.1	217.9	213.7
65°	2478.6	2135.0	1185.9	284.9	278.7	293.3	299.6	282.9	245.1	201.1	184.4
67.5°	2355.0	1952.7	863.2	255.6	270.3	287.0	291.2	268.2	230.5	188.6	167.6
70°	2126.6	1609.1	448.4	236.8	257.7	278.7	276.6	247.2	209.5	171.8	146.7
72.5°	1724.4	1141.9	169.7	211.6	238.9	259.8	255.6	222.1	148.8	106.9	96.4
75°	1118.8	546.9	146.7	182.3	213.7	232.6	234.7	201.1	129.9	90.1	77.5
77.5°	383.4	100.6	119.4	150.9	184.4	209.5	203.2	161.3	100.6	67.0	60.8
80°	65.0	67.0	92.2	106.9	127.8	167.6	142.5	115.2	79.6	48.2	39.8
82.5°	46.1	56.6	65.0	62.9	88.0	111.0	96.4	77.5	52.4	37.7	33.5
85°	33.5	37.7	35.6	37.7	50.3	73.3	67.0	54.5	37.7	27.2	23.0
87.5°	12.6	12.6	16.8	21.0	31.4	46.1	39.8	16.8	14.7	12.6	12.6
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)