

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: P507613

Luminaire Tested: **VERD-S-CA1-50-760-U-T4**

Issue Date: 3/30/2021

Test Information

Test Method: LM-79-08
Report Number: P507613
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-CA1-50-760-U-T4
Description: VERDEON-S ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5700K, 940mA LED AND TYPE IV OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7325 lumens
Efficiency: N/A
Efficacy: 136.9 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

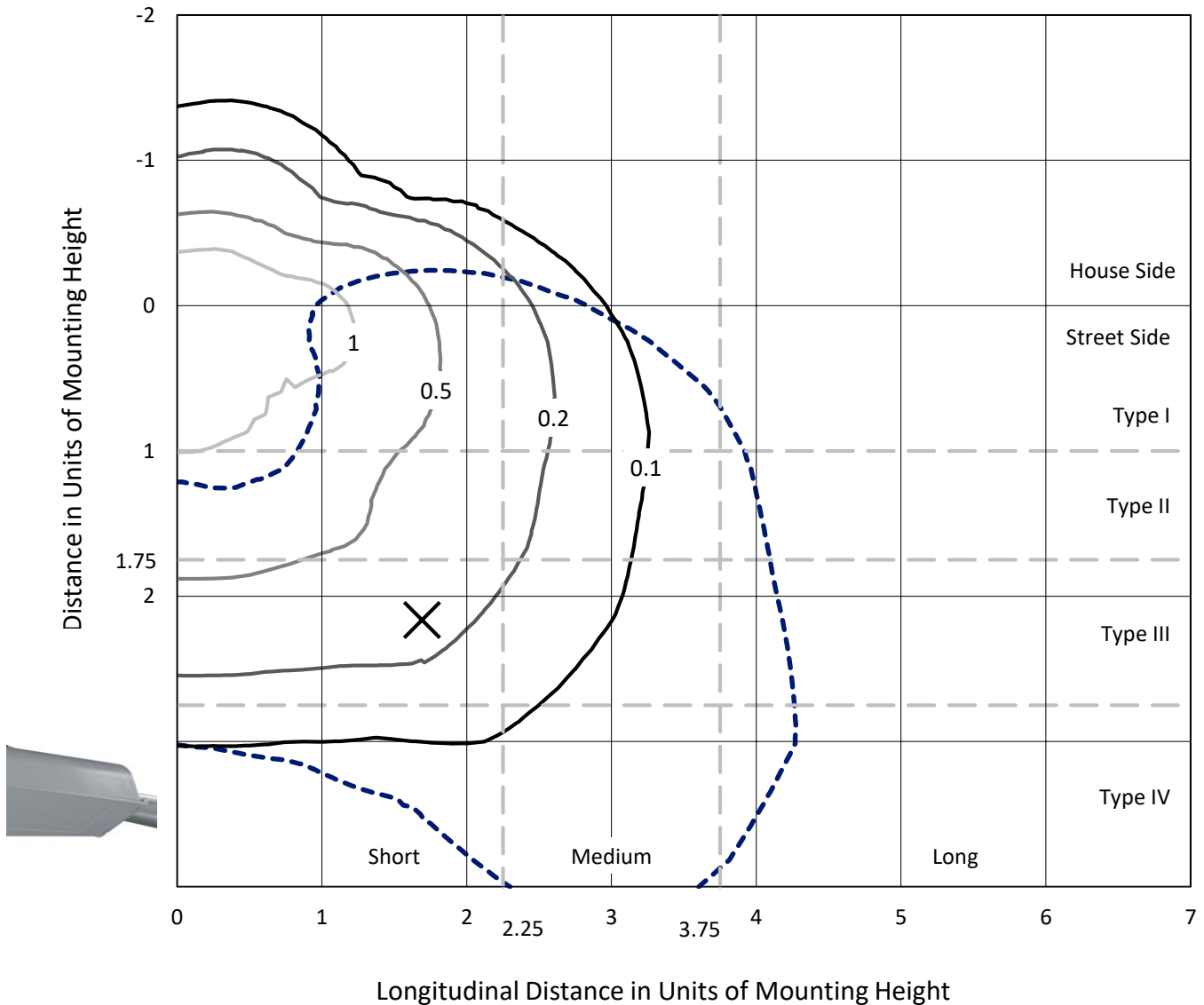
Input Watts (W): 53.5
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

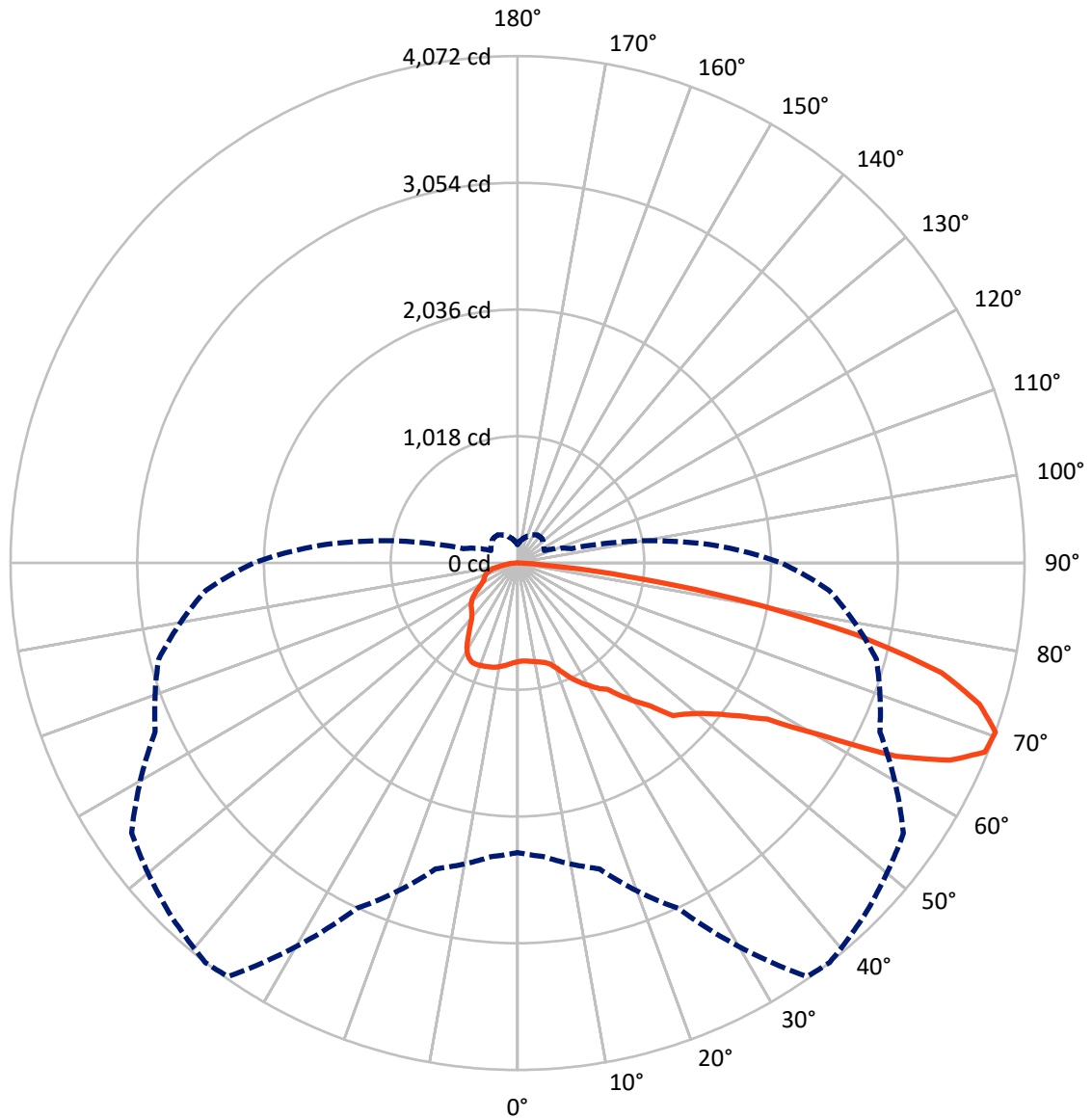
× Max cd
 - - - 1/2 Max cd



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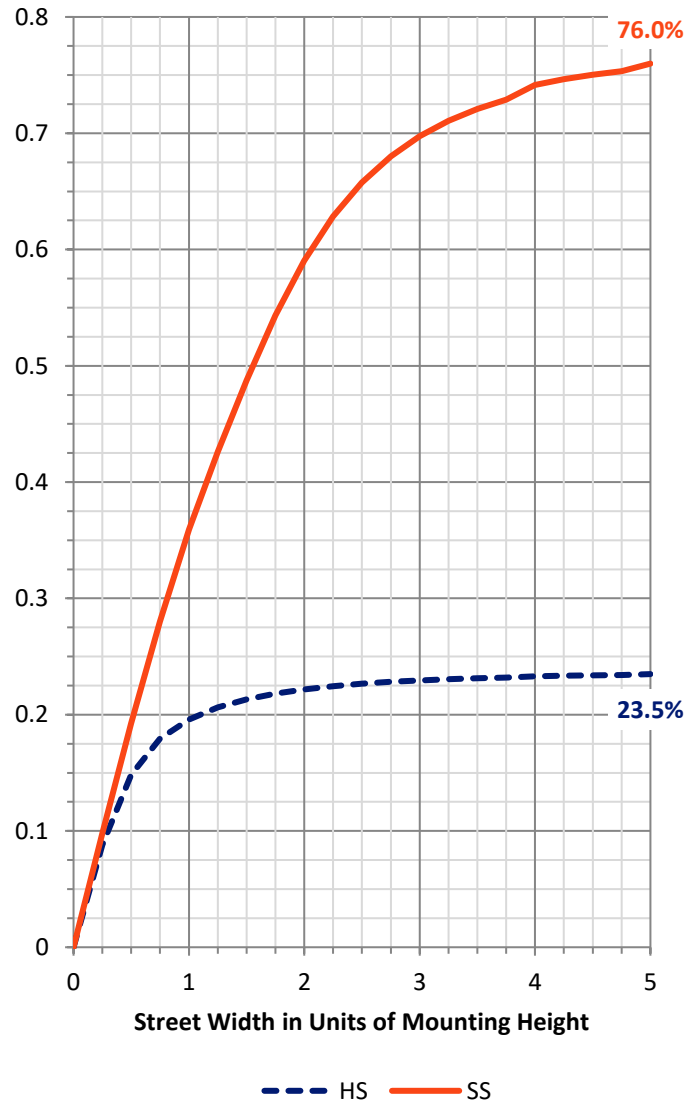
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1739.8	0.0	1739.8
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	5585.2	0.0	5585.2
	% Fixture	76.2	0.0	76.2
Total	Lumens	7325.0	0.0	7325.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.2	1.1
10°-20°	243.2	3.3
20°-30°	451.2	6.2
30°-40°	698.6	9.5
40°-50°	1035.2	14.1
50°-60°	1442.4	19.7
60°-70°	1852.3	25.3
70°-80°	1355.2	18.5
80°-90°	169.8	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°	7325.0	100.0
0°-180°	7325.0	100.0



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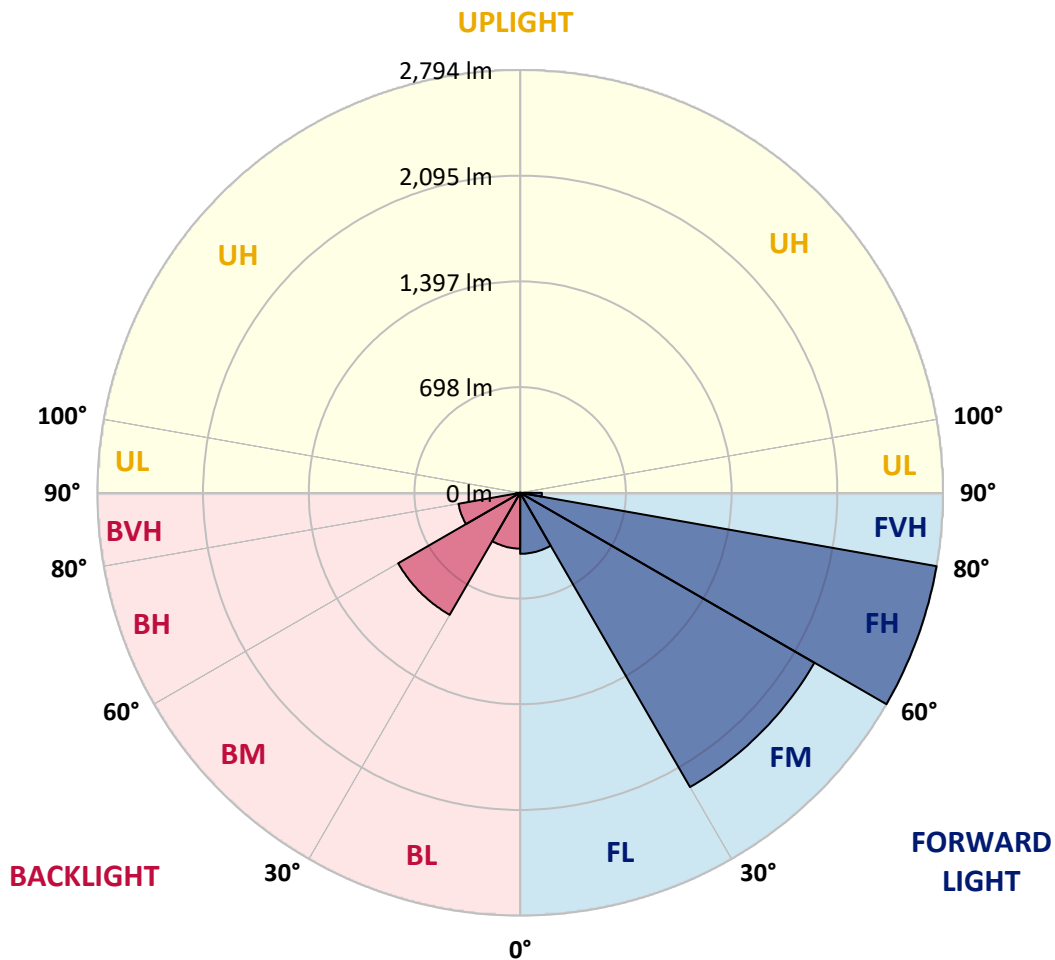
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	403.1	5.5			
FM (30°-60°)	2244.9	30.6			
FH (60°-80°)	2793.8	38.1			G2/5000
FVH (80°-90°)	143.4	2.0			G2/225
BL (0°-30°)	368.6	5.0	B1/500		
BM (30°-60°)	931.2	12.7	B1/1000		
BH (60°-80°)	413.7	5.6	B1/500		G1/500
BVH (80°-90°)	26.3	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°	791.5	791.5	791.5	791.5	791.5	791.5	791.5	791.5	791.5	791.5	791.5
2.5°	789.4	789.4	789.4	787.3	787.3	787.3	785.2	785.2	787.3	789.4	789.4
5°	795.7	795.7	793.6	793.6	791.5	791.5	791.5	789.4	789.4	789.4	793.6
7.5°	797.8	797.8	797.8	797.8	797.8	797.8	799.8	797.8	797.8	797.8	801.9
10°	797.8	797.8	799.8	799.8	804.0	806.1	808.2	812.4	812.4	812.4	814.5
12.5°	801.9	801.9	804.0	806.1	812.4	816.6	820.7	827.0	829.1	829.1	831.2
15°	810.3	810.3	812.4	818.6	827.0	829.1	835.4	843.7	852.1	854.1	856.2
17.5°	843.7	843.7	843.7	843.7	852.1	854.1	862.5	875.0	883.4	887.6	893.8
20°	910.5	912.6	908.4	906.4	902.2	902.2	902.2	908.4	918.9	933.5	943.9
22.5°	996.2	996.2	996.2	979.4	969.0	966.9	966.9	964.8	973.2	987.8	1002.4
25°	1063.0	1065.1	1063.0	1048.4	1035.8	1031.7	1031.7	1037.9	1037.9	1050.5	1067.2
27.5°	1117.3	1121.5	1115.2	1102.7	1092.2	1090.1	1092.2	1111.0	1121.5	1129.8	1150.7
30°	1175.8	1177.8	1163.2	1154.9	1148.6	1144.4	1146.5	1173.7	1209.2	1219.6	1255.1
32.5°	1284.4	1284.4	1263.5	1215.4	1198.7	1200.8	1200.8	1236.3	1284.4	1332.4	1378.3
35°	1386.7	1384.6	1365.8	1324.0	1261.4	1246.8	1255.1	1292.7	1367.9	1449.3	1530.8
37.5°	1507.8	1503.6	1486.9	1428.4	1376.2	1353.3	1307.3	1357.4	1449.3	1610.1	1693.7
40°	1643.6	1637.3	1599.7	1541.2	1472.3	1461.9	1422.2	1430.5	1551.7	1779.3	1875.4
42.5°	1718.7	1714.6	1689.5	1641.5	1591.3	1570.5	1537.0	1526.6	1689.5	1998.6	2046.6
45°	1789.7	1798.1	1798.1	1775.1	1754.2	1750.1	1727.1	1735.4	1867.0	2178.2	2197.0
47.5°	1833.6	1841.9	1814.8	1810.6	1810.6	1812.7	1835.7	1892.1	2027.8	2347.3	2328.5
50°	1965.2	1958.9	1850.3	1867.0	1885.8	1898.3	1948.5	2038.3	2251.3	2499.8	2443.4
52.5°	2203.2	2146.9	2017.4	1979.8	1990.2	2015.3	2082.1	2199.1	2478.9	2635.5	2543.6
55°	2497.7	2464.3	2347.3	2180.3	2126.0	2167.7	2238.7	2357.8	2654.3	2762.9	2623.0
57.5°	2696.1	2708.6	2723.2	2608.4	2355.7	2366.1	2414.2	2514.4	2829.8	2886.1	2685.7
60°	2896.6	2911.2	2992.6	2963.4	2904.9	2808.9	2633.4	2681.5	2961.3	2967.6	2731.6
62.5°	3055.3	3065.7	3186.9	3253.7	3406.1	3418.7	3145.1	2892.4	3099.2	3032.3	2750.4
65°	2975.9	2994.7	3176.4	3362.3	3782.1	3817.6	3727.8	3163.9	3205.7	3057.4	2735.8
67.5°	2708.6	2735.8	2927.9	3322.6	4022.2	4049.4	3961.7	3675.5	3243.2	3046.9	2664.8
70°	2326.5	2366.1	2543.6	3061.6	4055.6	4072.3	3963.7	3784.1	3211.9	2984.3	2512.3
72.5°	1892.1	1923.4	2103.0	2625.1	3853.1	3880.2	3846.8	3694.3	3145.1	2863.2	2205.3
75°	1449.3	1451.4	1641.5	2057.1	3410.3	3518.9	3575.3	3521.0	2963.4	2518.6	1697.9
77.5°	914.7	941.9	1136.1	1557.9	2679.4	2790.1	2815.1	2748.3	2073.8	1545.4	730.9
80°	411.4	453.2	651.6	1052.5	1823.2	1819.0	1833.6	1668.6	1104.8	490.8	81.4
82.5°	148.3	156.6	273.6	528.4	883.4	906.4	895.9	770.6	298.6	68.9	50.1
85°	62.7	66.8	89.8	142.0	200.5	213.0	183.8	139.9	48.0	39.7	33.4
87.5°	4.2	4.2	4.2	4.2	4.2	6.3	6.3	6.3	6.3	8.4	10.4
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°	791.5	791.5	791.5	791.5	791.5	791.5	791.5	791.5	791.5	791.5	791.5
2.5°	789.4	791.5	793.6	797.8	797.8	799.8	801.9	804.0	804.0	804.0	804.0
5°	795.7	797.8	799.8	806.1	810.3	812.4	816.6	818.6	820.7	820.7	820.7
7.5°	804.0	806.1	810.3	816.6	822.8	827.0	831.2	833.3	835.4	835.4	835.4
10°	816.6	820.7	827.0	835.4	841.6	841.6	843.7	845.8	847.9	847.9	847.9
12.5°	833.3	837.4	847.9	858.3	860.4	858.3	854.1	854.1	852.1	850.0	850.0
15°	860.4	862.5	877.1	885.5	879.2	868.8	860.4	852.1	845.8	841.6	841.6
17.5°	898.0	904.3	918.9	918.9	902.2	883.4	862.5	841.6	824.9	818.6	816.6
20°	952.3	960.7	973.2	960.7	933.5	900.1	862.5	829.1	795.7	774.8	768.5
22.5°	1012.9	1023.3	1027.5	1000.3	960.7	914.7	864.6	812.4	758.1	712.1	699.6
25°	1083.9	1090.1	1075.5	1031.7	977.4	918.9	858.3	789.4	705.9	645.3	639.0
27.5°	1167.4	1161.1	1121.5	1054.6	981.5	910.5	835.4	743.5	639.0	593.1	586.8
30°	1257.2	1234.2	1161.1	1067.2	969.0	885.5	795.7	674.5	588.9	551.3	547.2
32.5°	1363.7	1317.8	1198.7	1069.2	946.0	841.6	730.9	618.2	555.5	513.7	509.6
35°	1482.7	1411.7	1232.1	1056.7	900.1	781.1	653.7	576.4	520.0	480.3	472.0
37.5°	1643.6	1539.1	1273.9	1029.6	841.6	703.8	597.3	532.5	484.5	440.6	434.4
40°	1808.5	1685.3	1332.4	998.2	776.9	641.1	549.2	501.2	459.4	409.3	398.9
42.5°	1973.5	1831.5	1411.7	960.7	712.1	593.1	528.4	497.0	446.9	394.7	384.3
45°	2109.3	1956.8	1486.9	916.8	647.4	549.2	515.8	488.7	438.6	382.2	369.6
47.5°	2226.2	2061.2	1551.7	877.1	584.7	515.8	505.4	474.1	426.0	369.6	357.1
50°	2324.4	2144.8	1603.9	843.7	532.5	492.9	484.5	446.9	396.8	348.8	340.4
52.5°	2410.0	2205.3	1626.8	833.3	480.3	465.7	451.1	413.5	367.6	323.7	311.2
55°	2466.4	2251.3	1622.7	833.3	430.2	428.1	411.4	382.2	348.8	313.3	300.7
57.5°	2510.2	2272.2	1591.3	712.1	388.4	380.1	369.6	357.1	336.2	296.5	284.0
60°	2531.1	2259.6	1524.5	517.9	346.7	332.1	340.4	336.2	315.3	261.0	252.7
62.5°	2518.6	2222.0	1374.2	378.0	302.8	300.7	313.3	304.9	265.2	217.2	213.0
65°	2470.5	2128.1	1182.0	284.0	277.8	292.4	298.6	281.9	244.3	200.5	183.8
67.5°	2347.3	1946.4	860.4	254.8	269.4	286.1	290.3	267.3	229.7	188.0	167.1
70°	2119.7	1603.9	446.9	236.0	256.9	277.8	275.7	246.4	208.8	171.2	146.2
72.5°	1718.7	1138.2	169.2	210.9	238.1	259.0	254.8	221.4	148.3	106.5	96.1
75°	1115.2	545.1	146.2	181.7	213.0	231.8	233.9	200.5	129.5	89.8	77.3
77.5°	382.2	100.2	119.0	150.4	183.8	208.8	202.6	160.8	100.2	66.8	60.6
80°	64.7	66.8	91.9	106.5	127.4	167.1	142.0	114.9	79.4	48.0	39.7
82.5°	45.9	56.4	64.7	62.7	87.7	110.7	96.1	77.3	52.2	37.6	33.4
85°	33.4	37.6	35.5	37.6	50.1	73.1	66.8	54.3	37.6	27.1	23.0
87.5°	12.5	12.5	16.7	20.9	31.3	45.9	39.7	16.7	14.6	12.5	12.5
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)