

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: P233561

Luminaire Tested: **VERD-C01-D-U-T4-8027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P233561
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1710-389-15)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-C01-D-U-T4-8027
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(1) 80 CRI, 2700K, 1230mA LED AND TYPE IV OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6209 lumens
Efficiency: N/A
Efficacy: 110.9 lumens/watt
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U0 - G2

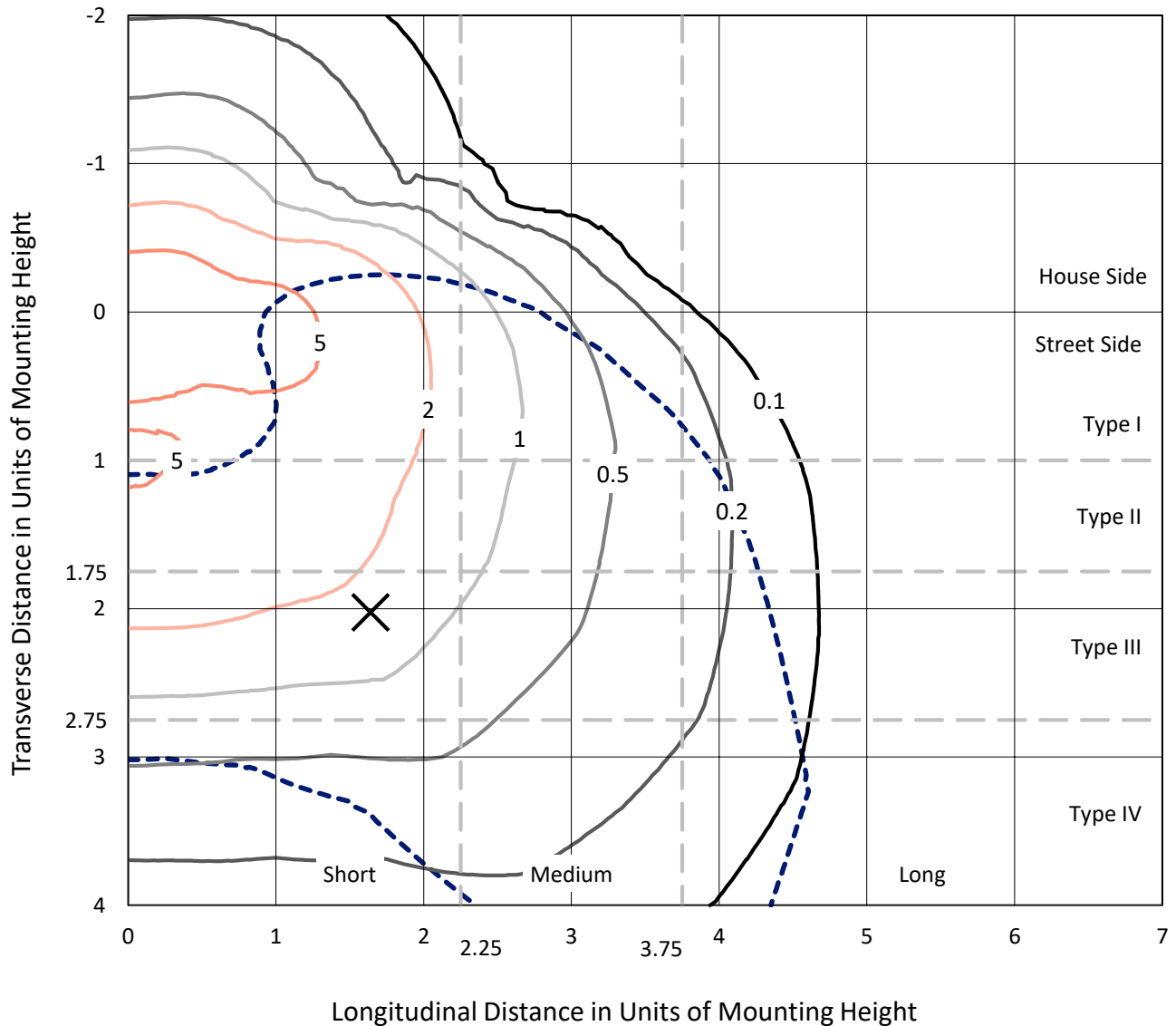
Input Watts (W): 56
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

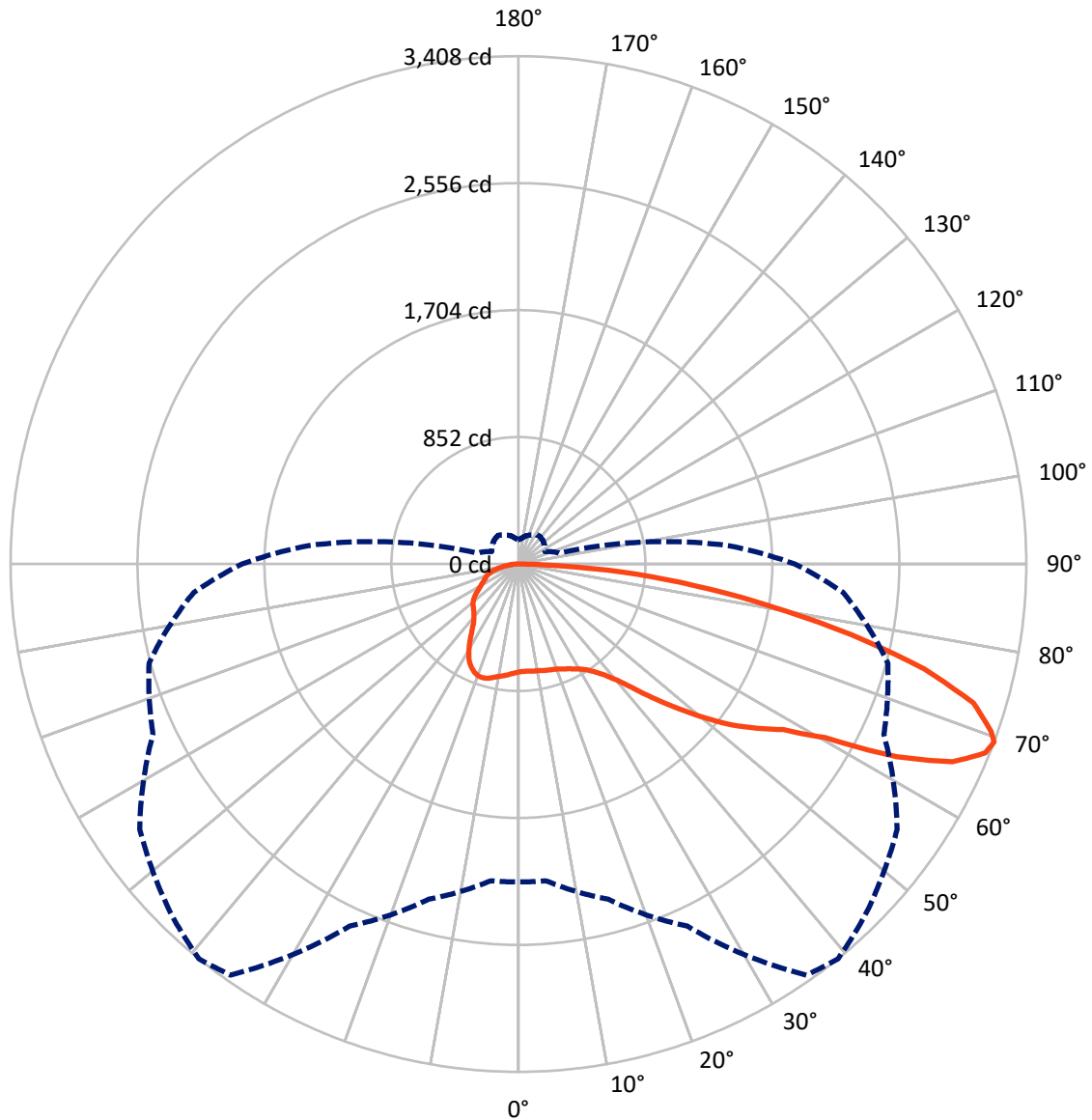


Based on 10 foot mounting height. Maximum calculated value = 7.5 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical



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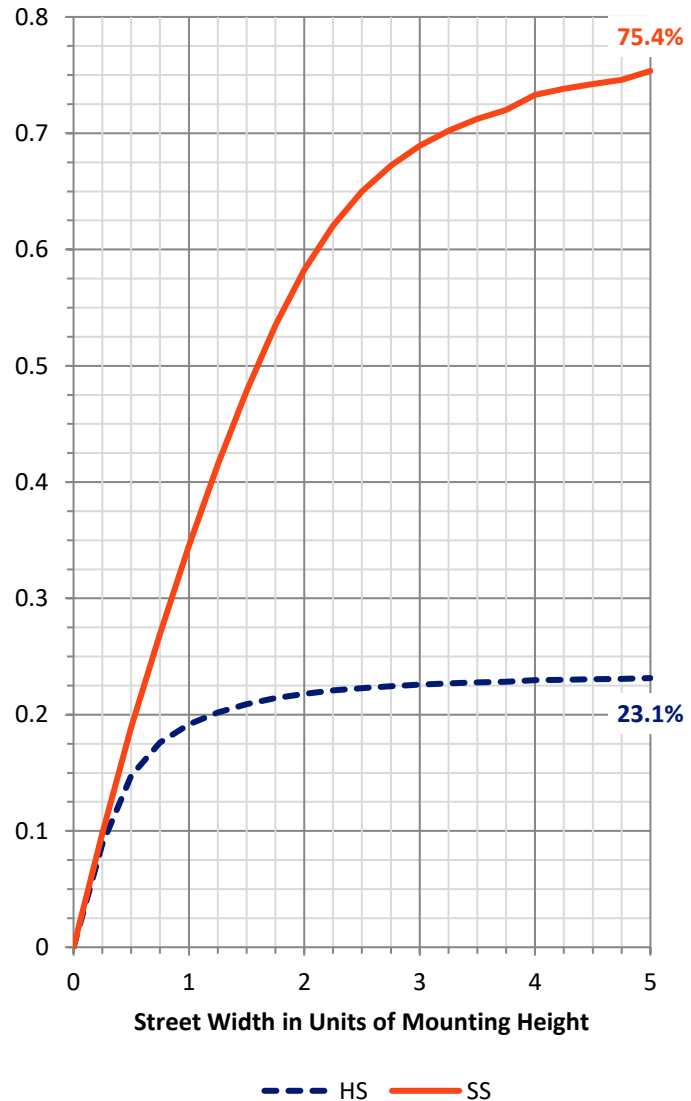
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1455.5	0.0	1455.5
	% Fixture	23.4	0.0	23.4
Street Side	Lumens	4753.5	0.0	4753.5
	% Fixture	76.6	0.0	76.6
Total	Lumens	6209.0	0.0	6209.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.3	1.1
10°-20°	217.2	3.5
20°-30°	365.7	5.9
30°-40°	529.8	8.5
40°-50°	856.4	13.8
50°-60°	1253.7	20.2
60°-70°	1569.2	25.3
70°-80°	1121.8	18.1
80°-90°	224.9	3.6
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°	6209.0	100.0
0°-180°	6209.0	100.0



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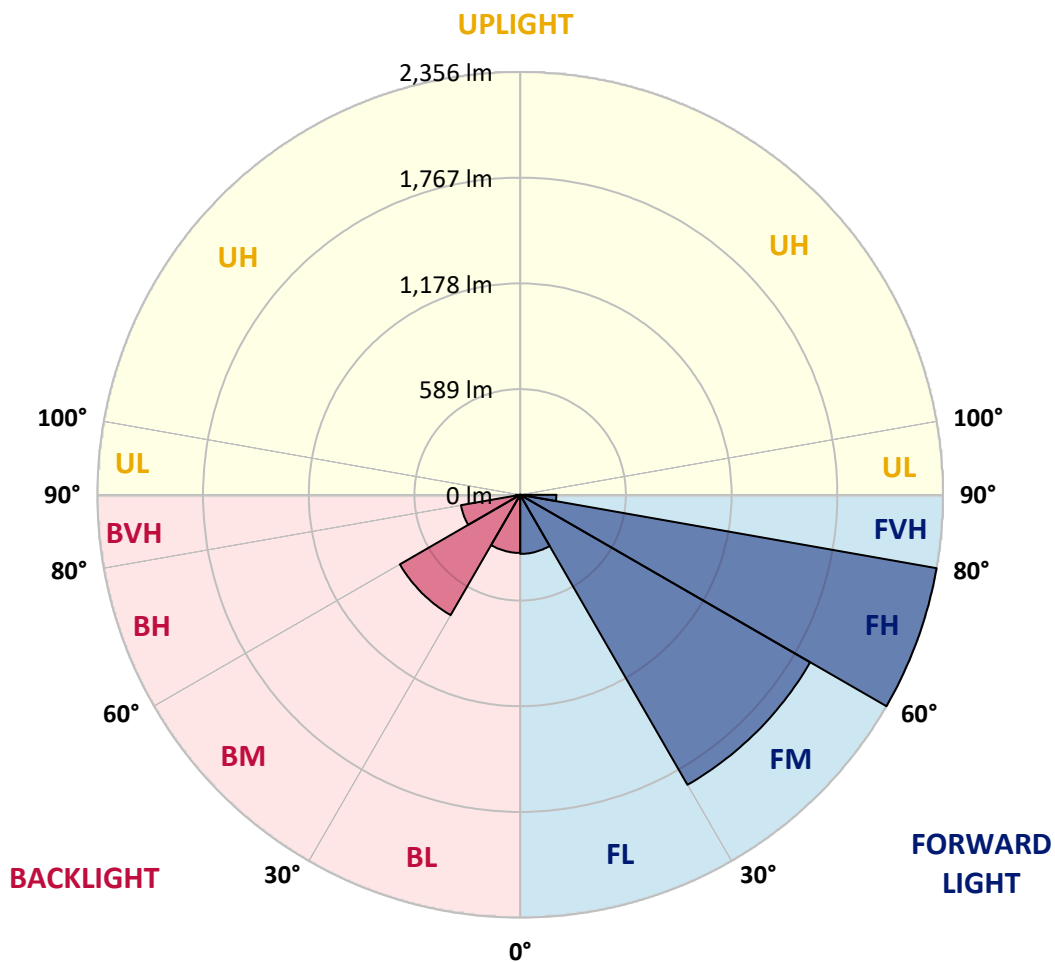
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	329.4	5.3			
FM	(30°-60°)	1865.9	30.1			
FH	(60°-80°)	2356.3	37.9			G2/5000
FVH	(80°-90°)	201.9	3.3			G2/225
BL	(0°-30°)	323.8	5.2	B1/500		
BM	(30°-60°)	774.0	12.5	B1/1000		
BH	(60°-80°)	334.7	5.4	B1/500		G1/500
BVH	(80°-90°)	23.0	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°	39°	45°	55°	65°	75°	85°
0°	723.2	723.2	723.2	723.2	723.2	723.2	723.2	723.2	723.2	723.2	723.2
2.5°	735.8	734.7	732.4	723.2	722.1	721.5	722.7	719.2	718.7	719.8	718.7
5°	736.4	735.2	732.4	724.4	723.2	722.1	722.7	719.8	720.4	723.2	723.2
7.5°	737.5	736.4	733.5	724.9	727.2	726.1	728.4	724.4	724.4	726.7	727.2
10°	734.7	734.1	732.4	726.1	729.5	727.2	729.5	730.1	732.4	734.1	733.5
12.5°	727.2	727.2	727.2	724.4	734.1	733.5	737.5	741.5	747.3	750.1	751.8
15°	722.7	722.1	726.1	725.5	737.5	739.2	746.1	756.4	765.0	772.4	774.7
17.5°	727.2	727.2	732.4	731.2	743.3	744.4	751.8	766.7	781.0	795.3	801.6
20°	732.4	733.0	739.2	741.0	752.4	751.8	759.3	777.6	797.0	818.2	829.1
22.5°	748.4	747.8	753.0	749.5	762.7	765.0	771.3	787.3	814.8	841.7	859.4
25°	760.4	762.1	767.3	765.0	775.9	778.7	789.0	804.5	837.1	869.1	900.6
27.5°	771.9	775.3	779.3	778.7	793.6	797.0	805.0	829.1	866.8	905.2	949.2
30°	789.0	787.9	790.7	795.9	815.3	817.6	827.4	856.5	902.3	952.1	1011.0
32.5°	811.9	810.8	813.6	818.2	841.7	847.4	860.5	892.0	949.8	1009.9	1082.0
35°	848.0	850.8	853.1	858.8	881.7	889.7	907.5	947.5	1014.5	1110.6	1213.6
37.5°	973.3	967.0	954.4	931.5	937.8	946.9	972.1	1029.3	1126.6	1289.7	1384.1
40°	1169.0	1161.5	1122.0	1055.1	1024.8	1027.1	1051.7	1129.5	1262.2	1500.2	1587.2
42.5°	1353.2	1344.0	1297.1	1213.6	1153.5	1146.6	1148.9	1238.8	1411.0	1710.8	1757.1
45°	1527.1	1531.7	1460.2	1396.1	1327.4	1296.0	1286.2	1353.2	1576.3	1893.3	1907.6
47.5°	1693.6	1697.1	1616.4	1554.6	1488.2	1451.6	1432.7	1484.8	1728.5	2040.9	2027.8
50°	1863.6	1872.7	1762.3	1709.7	1648.4	1622.1	1603.8	1638.1	1896.8	2182.3	2141.6
52.5°	2103.3	2065.0	1920.2	1845.8	1802.3	1794.3	1775.5	1803.5	2075.3	2307.0	2222.3
55°	2369.9	2288.1	2135.9	2006.0	1946.0	1946.0	1929.4	1962.0	2259.5	2400.3	2288.1
57.5°	2456.3	2464.4	2411.7	2270.4	2109.0	2096.4	2080.4	2125.1	2417.4	2483.8	2312.7
60°	2607.4	2629.7	2670.3	2552.5	2472.9	2365.9	2268.7	2292.7	2553.6	2552.5	2339.0
62.5°	2682.4	2703.5	2830.5	2767.0	2842.0	2849.4	2667.5	2482.1	2654.3	2586.8	2351.6
65°	2611.4	2626.3	2795.6	2879.2	3096.6	3200.2	3110.3	2736.7	2707.5	2572.5	2304.7
67.5°	2378.5	2406.6	2546.7	2801.4	3323.8	3381.5	3297.4	3086.3	2730.4	2577.1	2267.0
69°	2133.6	2134.2	2328.7	2681.8	3368.4	3408.4	3305.4	3102.9	2706.4	2566.2	2186.3
70°	1995.7	2010.0	2154.2	2578.2	3351.8	3365.0	3286.0	3102.3	2689.8	2562.8	2109.6
72.5°	1557.5	1550.0	1693.6	2156.0	3164.1	3193.3	3106.3	3014.8	2676.1	2415.1	1784.6
75°	1088.8	1111.7	1252.5	1633.6	2726.4	2814.0	2814.0	2896.3	2463.2	2063.8	1290.3
77.5°	810.2	813.6	926.3	1247.9	2193.7	2284.7	2368.2	2437.5	1925.4	1413.8	576.8
80°	548.7	553.9	656.9	920.6	1625.5	1709.1	1841.3	1677.0	1145.5	489.2	65.8
82.5°	345.6	352.5	434.3	646.6	1158.7	1196.4	1237.0	946.9	381.6	56.6	41.8
85°	205.4	206.6	262.1	413.1	706.6	708.9	665.4	436.0	102.4	33.8	26.3
87.5°	85.8	90.4	114.4	183.1	207.1	163.6	101.8	34.9	15.4	13.7	9.2
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°	723.2	723.2	723.2	723.2	723.2	723.2	723.2	723.2	723.2	723.2	723.2
2.5°	715.2	721.5	720.4	722.1	724.4	728.9	734.1	731.8	734.7	741.0	741.0
5°	721.5	726.7	728.4	731.8	734.7	739.2	742.7	741.5	747.8	757.0	757.0
7.5°	726.7	730.7	736.4	740.4	743.3	752.4	755.8	753.6	758.1	769.0	769.6
10°	734.1	738.1	746.7	750.7	756.4	761.0	765.6	765.0	769.6	779.3	781.0
12.5°	752.4	755.3	767.3	773.0	773.0	778.7	775.3	769.6	771.9	777.6	778.7
15°	776.4	780.4	795.9	798.8	795.9	797.0	789.0	770.7	761.6	763.3	763.9
17.5°	803.9	810.8	828.5	824.5	821.1	812.5	791.9	764.4	737.0	726.7	728.4
20°	833.1	841.7	862.3	853.7	841.1	818.8	785.6	738.7	696.3	671.7	670.6
22.5°	866.8	877.7	897.2	882.3	854.3	815.3	764.4	707.2	653.4	615.1	612.8
25°	913.2	925.2	932.1	902.3	856.5	802.8	734.1	664.3	596.8	551.0	547.6
27.5°	965.8	972.1	958.4	913.8	845.7	775.9	696.3	609.9	535.6	497.8	492.6
30°	1024.2	1019.0	976.1	908.0	817.6	733.5	637.4	540.7	481.2	450.9	446.3
32.5°	1091.7	1075.7	989.9	892.0	780.4	678.0	573.3	496.6	449.2	418.8	416.5
35°	1202.7	1156.9	1012.2	867.4	731.2	612.8	514.4	458.9	421.7	383.9	378.2
37.5°	1363.5	1277.1	1044.8	844.5	678.0	549.9	469.8	428.6	395.9	353.6	345.6
40°	1530.6	1418.4	1098.6	819.4	628.2	503.5	445.2	416.0	383.9	343.9	333.0
42.5°	1683.3	1552.9	1161.5	787.9	576.2	466.3	433.1	412.5	380.5	342.7	334.1
45°	1821.8	1679.3	1226.2	751.8	519.0	436.6	423.4	406.2	373.6	337.6	330.7
47.5°	1938.5	1786.9	1291.4	710.1	464.0	418.3	413.1	394.8	364.5	329.6	323.9
50°	2035.2	1864.1	1328.6	666.0	418.8	404.5	398.2	375.3	344.4	311.8	308.4
52.5°	2106.7	1912.2	1362.3	642.6	383.4	382.2	378.2	355.9	326.1	292.4	285.5
55°	2156.5	1951.7	1347.5	624.2	345.6	354.2	351.9	338.2	313.0	273.5	267.8
57.5°	2159.4	1955.1	1315.4	515.5	308.4	320.4	324.4	326.7	298.7	263.8	256.9
60°	2156.5	1929.9	1255.9	378.2	272.4	286.7	301.5	301.5	282.1	247.8	242.6
62.5°	2143.4	1880.2	1117.5	269.5	243.7	262.6	282.1	273.5	256.9	229.4	224.3
65°	2083.3	1797.2	874.3	219.7	231.7	248.9	258.1	246.0	224.9	196.3	194.0
67.5°	1974.0	1607.2	505.8	201.4	221.4	236.9	244.3	226.0	206.0	178.5	177.4
69°	1853.8	1415.0	284.9	196.8	215.1	228.9	235.2	215.1	195.7	169.4	164.2
70°	1746.3	1243.3	185.4	192.8	208.8	223.7	228.3	207.7	189.4	162.5	159.1
72.5°	1322.9	749.0	124.7	176.2	191.7	203.1	210.0	190.5	169.9	143.0	136.2
75°	722.7	203.7	109.9	151.1	170.5	186.0	187.7	163.1	133.3	105.9	103.0
77.5°	140.8	69.8	94.4	124.7	135.6	153.9	152.8	136.2	115.6	89.8	86.4
80°	53.2	50.4	79.0	89.3	95.6	115.0	121.9	109.9	96.1	61.2	52.6
82.5°	36.0	37.2	58.9	52.6	58.4	68.1	85.8	83.5	76.1	41.8	37.2
85°	25.2	29.2	32.6	22.3	28.6	42.9	56.6	54.9	46.9	29.2	26.3
87.5°	7.4	8.0	9.2	11.4	17.7	32.0	46.3	38.3	25.7	21.7	18.9
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)