

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: P507681

Luminaire Tested: **VERD-S-CA1-70-730-U-T2**

Issue Date: 3/30/2021

Test Information

Test Method: LM-79-08
Report Number: P507681
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2103-168-2)
Test Lab: INNOVATION CENTER
Issue Date: 3/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-S-CA1-70-730-U-T2
Description: VERDEON-S ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 1330mA LED AND TYPE II OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9707 lumens
Efficiency: N/A
Efficacy: 132.1 lumens/watt
Luminous Opening: Rectangular (W 0.83' x L: 0.83' x H: 0')
IES Classification: Type II - 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

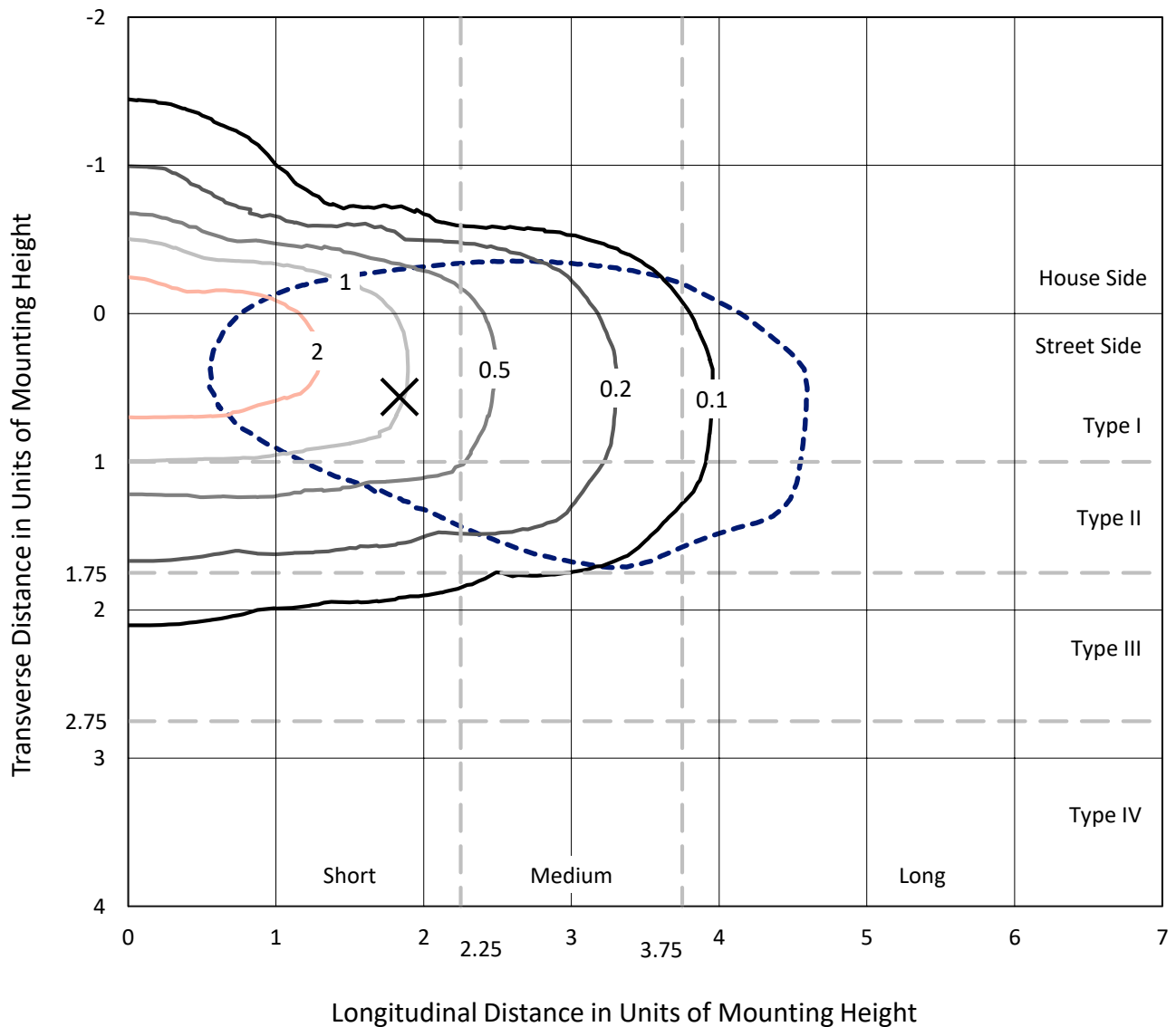


REPORT NUMBER: P507681

CATALOG NUMBER: VERD-S-CA1-70-730-U-T2

Iso-Footcandle Lines of Horizontal Illumination

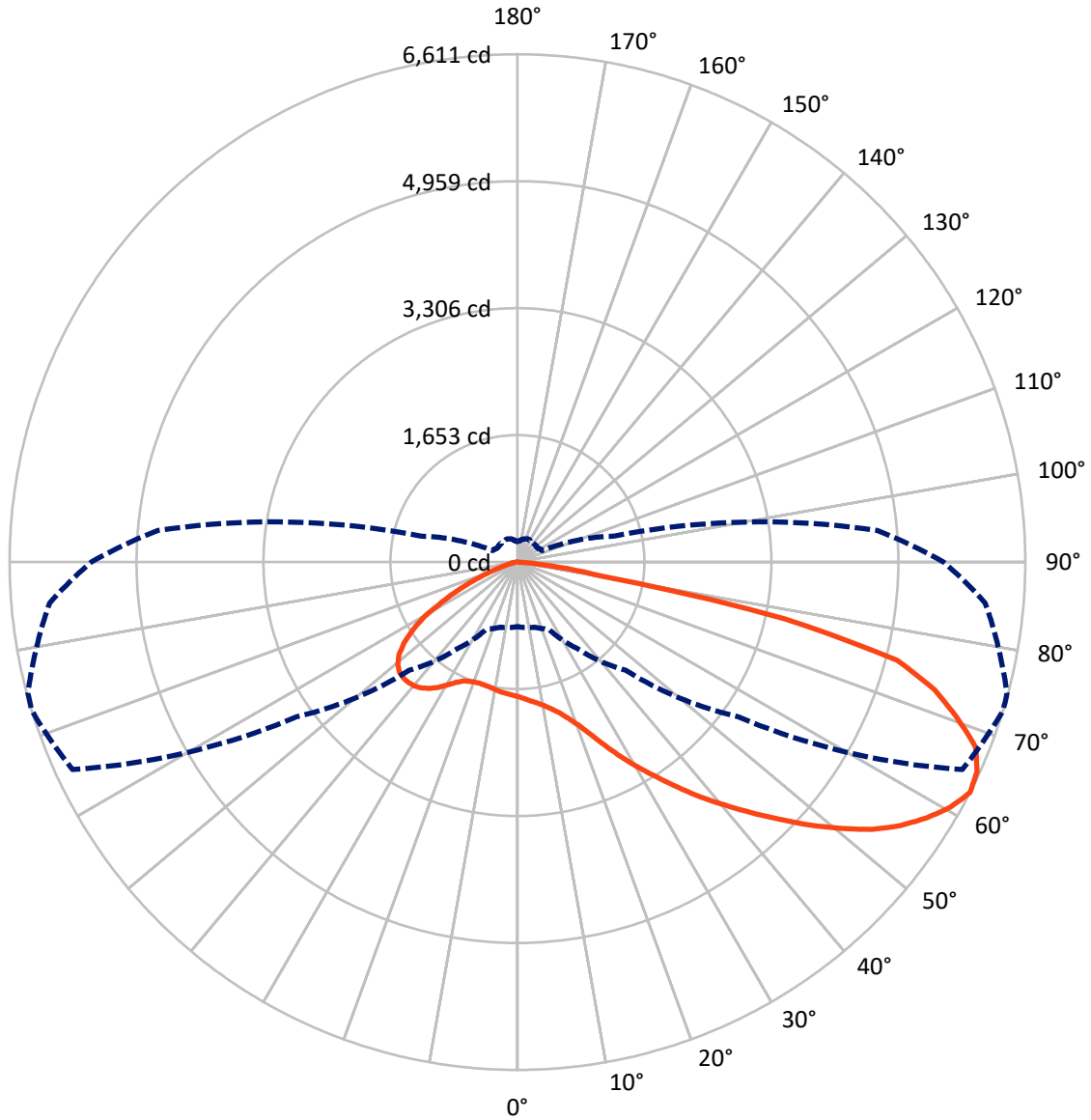
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 fc
 Type II - Short - N/A

REPORT NUMBER: P507681
CATALOG NUMBER: VERD-S-CA1-70-730-U-T2

Luminous Intensity Polar Plot



— Vertical Plane Through 73-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

REPORT NUMBER: P507681

CATALOG NUMBER: VERD-S-CA1-70-730-U-T2

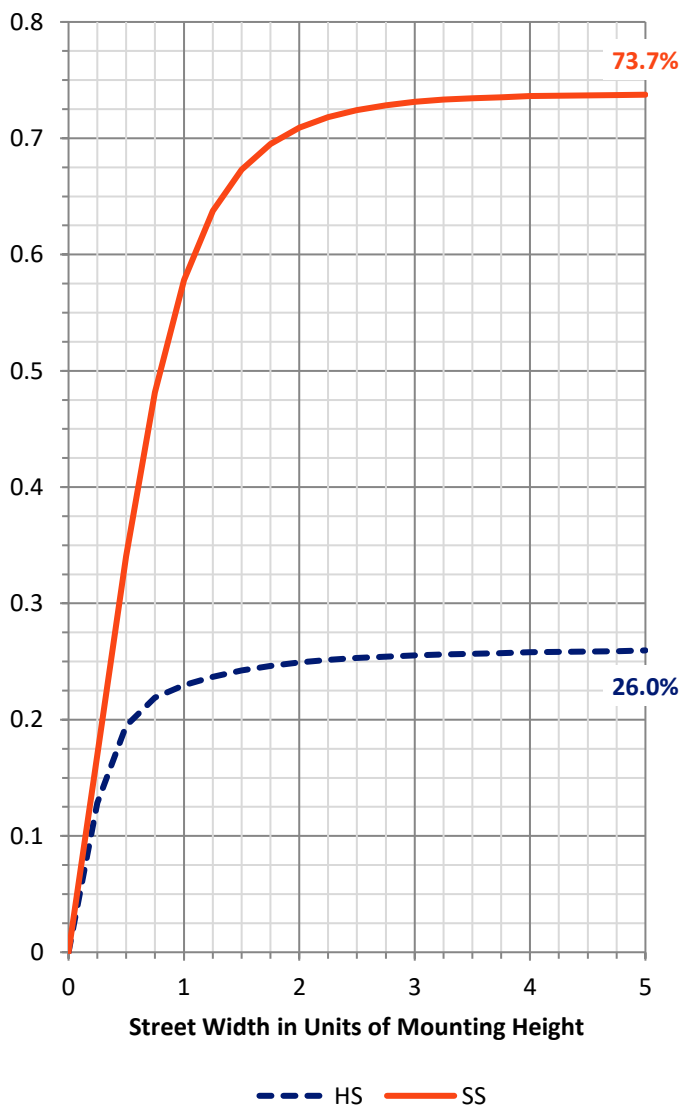
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2557.0	0.0	2557.0
	% Fixture	26.3	0.0	26.3
Street Side	Lumens	7150.0	0.0	7150.0
	% Fixture	73.7	0.0	73.7
Total	Lumens	9707.0	0.0	9707.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	169.5	1.7
10°-20°	518.0	5.3
20°-30°	896.6	9.2
30°-40°	1298.4	13.4
40°-50°	1663.1	17.1
50°-60°	1925.5	19.8
60°-70°	1939.0	20.0
70°-80°	1185.4	12.2
80°-90°	111.6	1.1
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°	9707.0	100.0
0°-180°	9707.0	100.0

Coefficient of Utilization



REPORT NUMBER: P507681

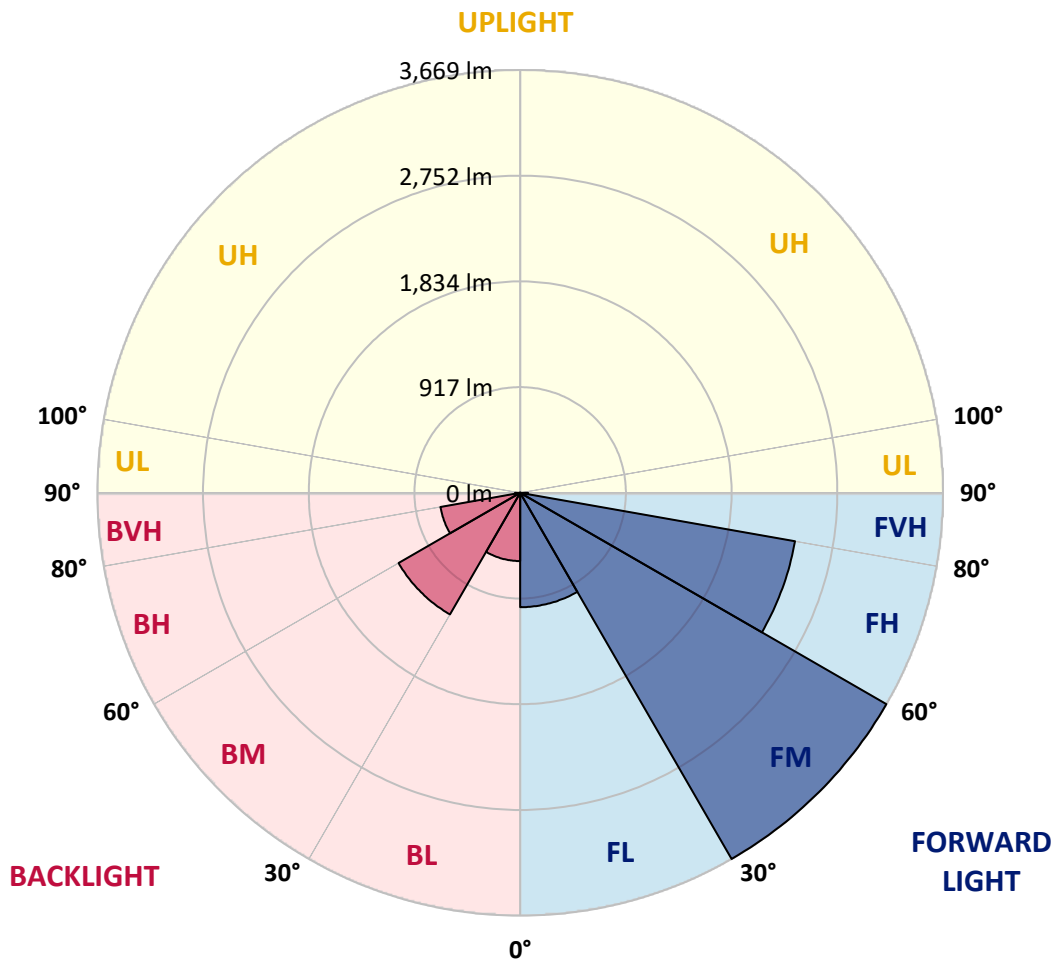
CATALOG NUMBER: VERD-S-CA1-70-730-U-T2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	992.1	10.2			
FM	(30°-60°)	3668.9	37.8			
FH	(60°-80°)	2421.5	24.9			G2/5000
FVH	(80°-90°)	67.4	0.7			G1/100
BL	(0°-30°)	591.9	6.1	B2/1000		
BM	(30°-60°)	1218.1	12.5	B2/2500		
BH	(60°-80°)	702.8	7.2	B2/1000		G2/1000
BVH	(80°-90°)	44.2	0.5			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 II Short





REPORT NUMBER: P507681
 CATALOG NUMBER: VERD-S-CA1-70-730-U-T2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	73°	75°	85°
0°	1753.4	1753.4	1753.4	1753.4	1753.4	1753.4	1753.4	1753.4	1753.4	1753.4	1753.4
2.5°	1843.6	1840.9	1835.4	1832.7	1827.2	1813.5	1805.3	1791.7	1780.7	1778.0	1761.6
5°	1933.9	1936.6	1933.9	1925.7	1914.7	1895.6	1868.2	1832.7	1816.3	1810.8	1783.5
7.5°	2018.7	2018.7	2016.0	2005.0	1994.1	1969.5	1931.2	1890.1	1851.8	1840.9	1805.3
10°	2100.8	2100.8	2092.5	2081.6	2065.2	2035.1	1996.8	1944.8	1898.3	1881.9	1821.7
12.5°	2188.3	2185.5	2174.6	2158.2	2136.3	2111.7	2070.7	2013.2	1961.3	1942.1	1857.3
15°	2256.7	2256.7	2248.5	2237.5	2218.4	2188.3	2150.0	2100.8	2032.4	2016.0	1906.5
17.5°	2316.8	2319.6	2314.1	2314.1	2297.7	2275.8	2243.0	2202.0	2136.3	2111.7	1980.4
20°	2366.1	2363.3	2374.3	2382.5	2388.0	2374.3	2355.1	2327.8	2262.1	2237.5	2076.1
22.5°	2388.0	2393.4	2426.3	2467.3	2491.9	2494.6	2491.9	2489.2	2431.7	2398.9	2207.4
25°	2398.9	2407.1	2456.3	2527.5	2582.2	2623.2	2667.0	2694.3	2642.4	2617.7	2404.4
27.5°	2409.8	2418.1	2475.5	2563.0	2667.0	2765.4	2853.0	2904.9	2866.7	2836.6	2606.8
30°	2390.7	2398.9	2464.6	2587.6	2735.4	2907.7	3030.8	3104.6	3099.2	3080.0	2839.3
32.5°	2349.7	2357.9	2431.7	2584.9	2806.5	3052.7	3189.4	3312.5	3337.1	3318.0	3071.8
35°	2275.8	2286.8	2371.6	2552.1	2839.3	3173.0	3356.3	3536.8	3599.7	3602.5	3326.2
37.5°	2174.6	2180.1	2284.0	2489.2	2850.2	3257.8	3495.8	3752.9	3881.5	3884.2	3586.1
40°	2037.8	2051.5	2180.1	2409.8	2825.6	3318.0	3635.3	3988.1	4157.7	4138.6	3867.8
42.5°	1881.9	1892.9	2018.7	2284.0	2768.2	3353.5	3763.9	4234.3	4458.6	4447.7	4133.1
45°	1742.4	1758.8	1854.6	2109.0	2658.8	3361.8	3876.0	4480.5	4770.5	4756.8	4403.9
47.5°	1556.4	1597.4	1726.0	1953.0	2494.6	3326.2	3977.2	4814.2	5115.1	5096.0	4688.4
50°	1198.1	1211.8	1482.6	1821.7	2308.6	3238.7	4064.7	5123.3	5448.8	5435.2	4986.6
52.5°	1080.5	1091.4	1178.9	1671.3	2122.6	3082.7	4116.7	5519.9	5782.5	5744.2	5254.6
55°	1014.8	1025.8	1075.0	1334.9	1961.3	2847.5	4127.7	5856.4	6053.3	6017.8	5506.3
57.5°	954.6	962.8	1009.3	1143.4	1775.2	2522.0	4070.2	6127.2	6283.1	6247.6	5733.3
60°	891.7	899.9	949.2	1039.4	1545.5	2223.8	3881.5	6337.8	6477.3	6441.8	5938.5
62.5°	839.8	853.4	878.0	962.8	1381.4	1991.3	3512.2	6389.8	6611.4	6597.7	6113.5
65°	776.8	782.3	820.6	889.0	1220.0	1830.0	3115.6	6239.3	6575.8	6600.4	6217.5
67.5°	705.7	708.5	744.0	793.3	1020.3	1671.3	2762.7	6036.9	6433.6	6474.6	6140.9
70°	610.0	612.7	645.5	697.5	845.2	1449.7	2398.9	5738.8	6069.8	6108.1	5845.5
72.5°	508.8	508.8	536.1	593.6	697.5	1200.8	1920.2	5085.0	5678.6	5741.5	5364.0
75°	221.6	229.8	276.3	331.0	451.3	883.5	1310.2	3936.2	5104.2	5147.9	4702.1
77.5°	60.2	60.2	71.1	93.0	131.3	393.9	415.8	1731.5	3556.0	3668.1	3476.6
80°	49.2	49.2	54.7	71.1	90.3	194.2	139.5	558.0	1099.6	1449.7	1802.6
82.5°	27.4	27.4	32.8	41.0	49.2	49.2	49.2	284.5	541.6	577.2	755.0
85°	13.7	16.4	16.4	19.1	19.1	16.4	16.4	57.4	103.9	117.6	180.5
87.5°	5.5	5.5	5.5	5.5	2.7	2.7	5.5	8.2	8.2	10.9	13.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P507681

CATALOG NUMBER: VERD-S-CA1-70-730-U-T2

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1753.4	1753.4	1753.4	1753.4	1753.4	1753.4	1753.4	1753.4	1753.4	1753.4	1753.4
2.5°	1756.1	1747.9	1737.0	1728.7	1712.3	1695.9	1685.0	1676.8	1674.0	1671.3	1671.3
5°	1767.0	1753.4	1723.3	1693.2	1668.6	1646.7	1627.5	1613.9	1608.4	1605.7	1605.7
7.5°	1783.5	1764.3	1715.1	1671.3	1627.5	1594.7	1564.6	1545.5	1534.5	1537.3	1545.5
10°	1791.7	1761.6	1695.9	1652.2	1594.7	1542.7	1507.2	1485.3	1477.1	1477.1	1474.4
12.5°	1813.5	1769.8	1682.2	1613.9	1564.6	1493.5	1452.5	1433.3	1422.4	1406.0	1400.5
15°	1846.4	1791.7	1676.8	1586.5	1509.9	1447.0	1392.3	1364.9	1356.7	1334.9	1334.9
17.5°	1906.5	1830.0	1676.8	1556.4	1457.9	1397.8	1326.6	1288.4	1282.9	1269.2	1266.5
20°	1977.7	1881.9	1690.5	1526.3	1403.2	1323.9	1244.6	1206.3	1192.6	1178.9	1178.9
22.5°	2089.8	1961.3	1715.1	1504.4	1345.8	1247.3	1159.8	1105.1	1083.2	1080.5	1075.0
25°	2262.1	2087.1	1753.4	1482.6	1288.4	1162.5	1075.0	1003.9	968.3	962.8	960.1
27.5°	2450.9	2259.4	1830.0	1463.4	1225.4	1066.8	962.8	886.3	842.5	837.0	834.3
30°	2653.3	2437.2	1931.2	1447.0	1146.1	957.4	839.8	765.9	724.9	713.9	716.7
32.5°	2874.9	2628.7	2040.6	1433.3	1061.3	815.1	705.7	656.5	612.7	593.6	596.3
35°	3091.0	2798.3	2136.3	1422.4	949.2	686.6	601.8	549.8	506.0	481.4	481.4
37.5°	3334.4	2998.0	2215.6	1400.5	828.8	599.0	517.0	465.0	432.2	410.3	410.3
40°	3572.4	3197.6	2278.6	1359.5	694.8	527.9	426.7	396.6	374.7	361.1	355.6
42.5°	3804.9	3397.3	2319.6	1291.1	582.6	443.1	355.6	352.9	355.6	341.9	339.2
45°	4045.6	3594.3	2349.7	1181.7	503.3	366.5	317.3	336.4	355.6	350.1	350.1
47.5°	4308.2	3785.7	2374.3	1003.9	426.7	322.8	314.6	333.7	358.3	361.1	361.1
50°	4559.8	3979.9	2366.1	776.8	374.7	320.0	317.3	322.8	355.6	363.8	358.3
52.5°	4795.1	4146.8	2300.4	566.2	350.1	325.5	325.5	320.0	347.4	352.9	355.6
55°	5033.1	4302.7	2152.7	448.6	336.4	325.5	339.2	325.5	333.7	336.4	341.9
57.5°	5249.1	4461.4	1933.9	402.1	333.7	325.5	339.2	331.0	331.0	320.0	317.3
60°	5416.0	4592.7	1668.6	382.9	325.5	328.2	333.7	333.7	325.5	300.9	292.7
62.5°	5547.3	4702.1	1304.8	358.3	320.0	322.8	320.0	331.0	311.8	276.3	268.1
65°	5621.2	4721.2	998.4	331.0	306.4	317.3	309.1	306.4	289.9	251.7	235.2
67.5°	5539.1	4587.2	697.5	303.6	289.9	309.1	295.4	284.5	265.3	229.8	207.9
70°	5221.8	4198.8	459.5	268.1	268.1	289.9	279.0	262.6	238.0	210.6	186.0
72.5°	4625.5	3618.9	276.3	221.6	238.0	265.3	259.9	238.0	166.9	128.6	112.1
75°	3911.6	2973.3	177.8	166.9	194.2	238.0	240.7	213.4	142.2	114.9	114.9
77.5°	2842.0	1953.0	103.9	93.0	128.6	191.5	205.2	155.9	153.2	213.4	155.9
80°	1457.9	946.4	79.3	57.4	68.4	142.2	114.9	117.6	232.5	172.3	109.4
82.5°	631.9	374.7	49.2	41.0	43.8	71.1	73.9	194.2	180.5	101.2	68.4
85°	134.0	71.1	27.4	27.4	27.4	32.8	41.0	210.6	112.1	52.0	21.9
87.5°	13.7	13.7	13.7	13.7	13.7	13.7	10.9	10.9	10.9	8.2	8.2
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)