

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: P509389

Luminaire Tested: **VERD-CA2-90-722-U-T2**

Issue Date: 3/4/2021

Test Information

Test Method: LM-79-08
Report Number: P509389
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-139-2)
Test Lab: INNOVATION CENTER
Issue Date: 3/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-CA2-90-722-U-T2
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 1250mA LEDS AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10496 lumens
Efficiency: N/A
Efficacy: 111.4 lumens/watt
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

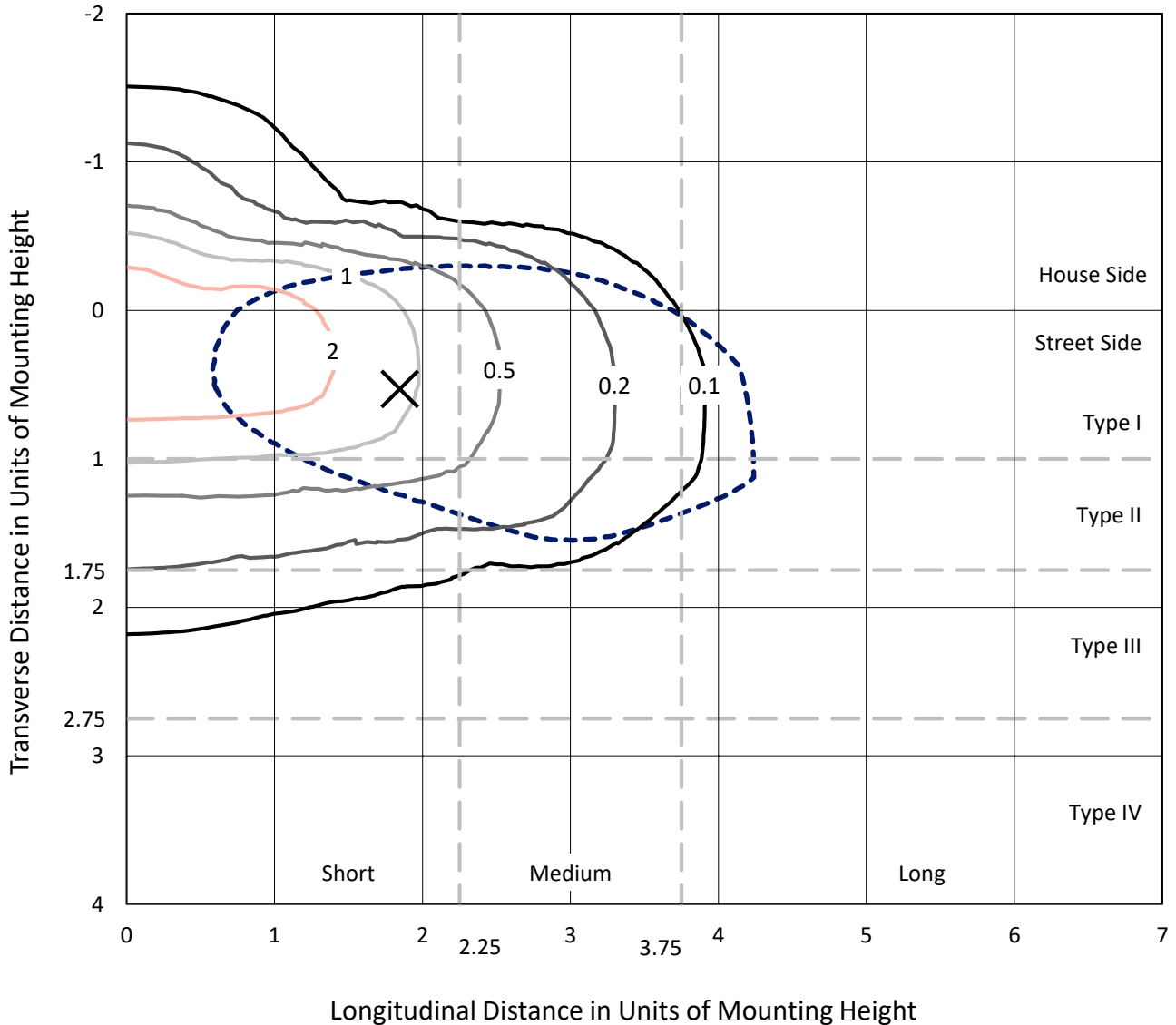
Input Watts (W): 94.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P509389
 CATALOG NUMBER: VERD-CA2-90-722-U-T2

Iso-Footcandle Lines of Horizontal Illumination

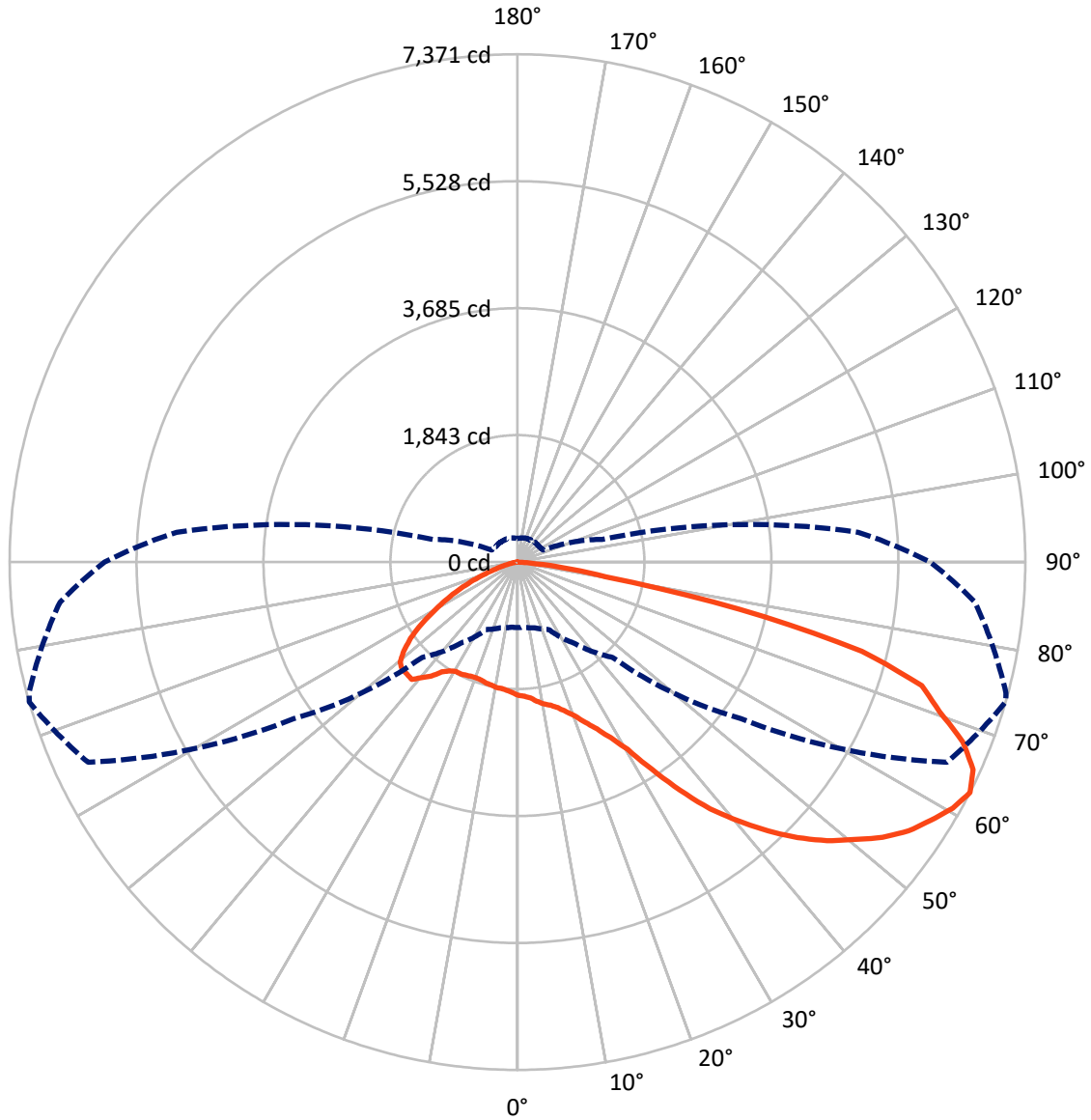
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 fc
 Type II - Short - N/A

REPORT NUMBER: P509389
CATALOG NUMBER: VERD-CA2-90-722-U-T2

Luminous Intensity Polar Plot



— Vertical Plane Through 74-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

REPORT NUMBER: P509389

CATALOG NUMBER: VERD-CA2-90-722-U-T2

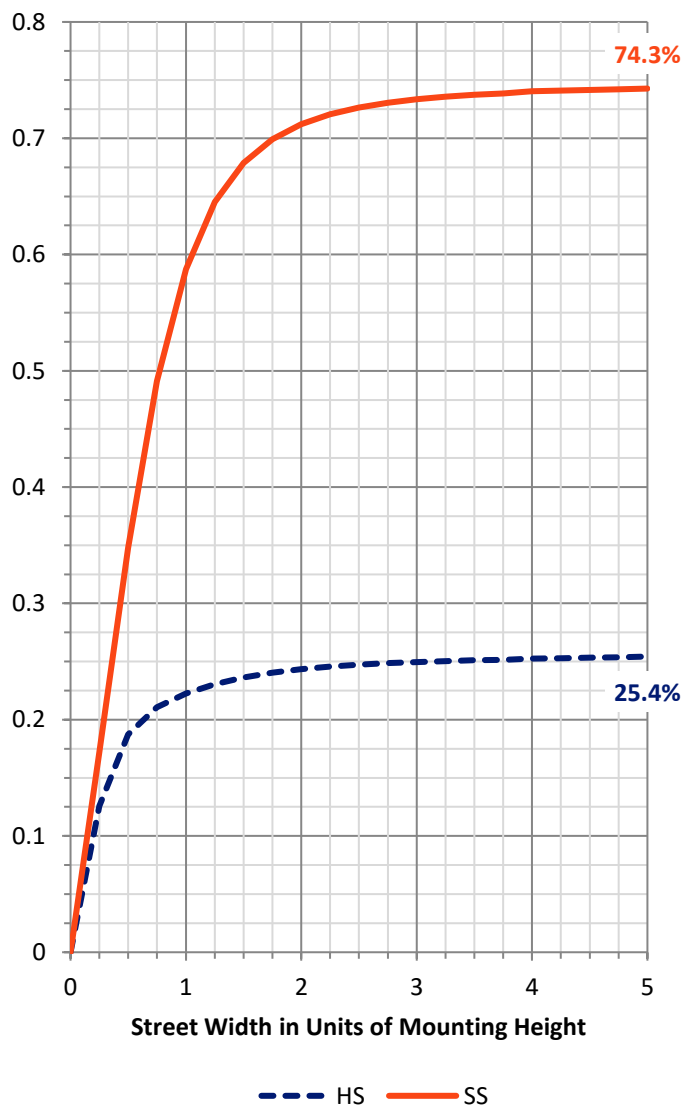
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2710.2	0.0	2710.2
	% Fixture	25.8	0.0	25.8
Street Side	Lumens	7785.8	0.0	7785.8
	% Fixture	74.2	0.0	74.2
Total	Lumens	10496.0	0.0	10496.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	186.0	1.8
10°-20°	567.0	5.4
20°-30°	956.1	9.1
30°-40°	1396.9	13.3
40°-50°	1860.0	17.7
50°-60°	2140.5	20.4
60°-70°	2068.5	19.7
70°-80°	1190.8	11.3
80°-90°	130.3	1.2
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°	10496.0	100.0
0°-180°	10496.0	100.0

Coefficient of Utilization



REPORT NUMBER: P509389

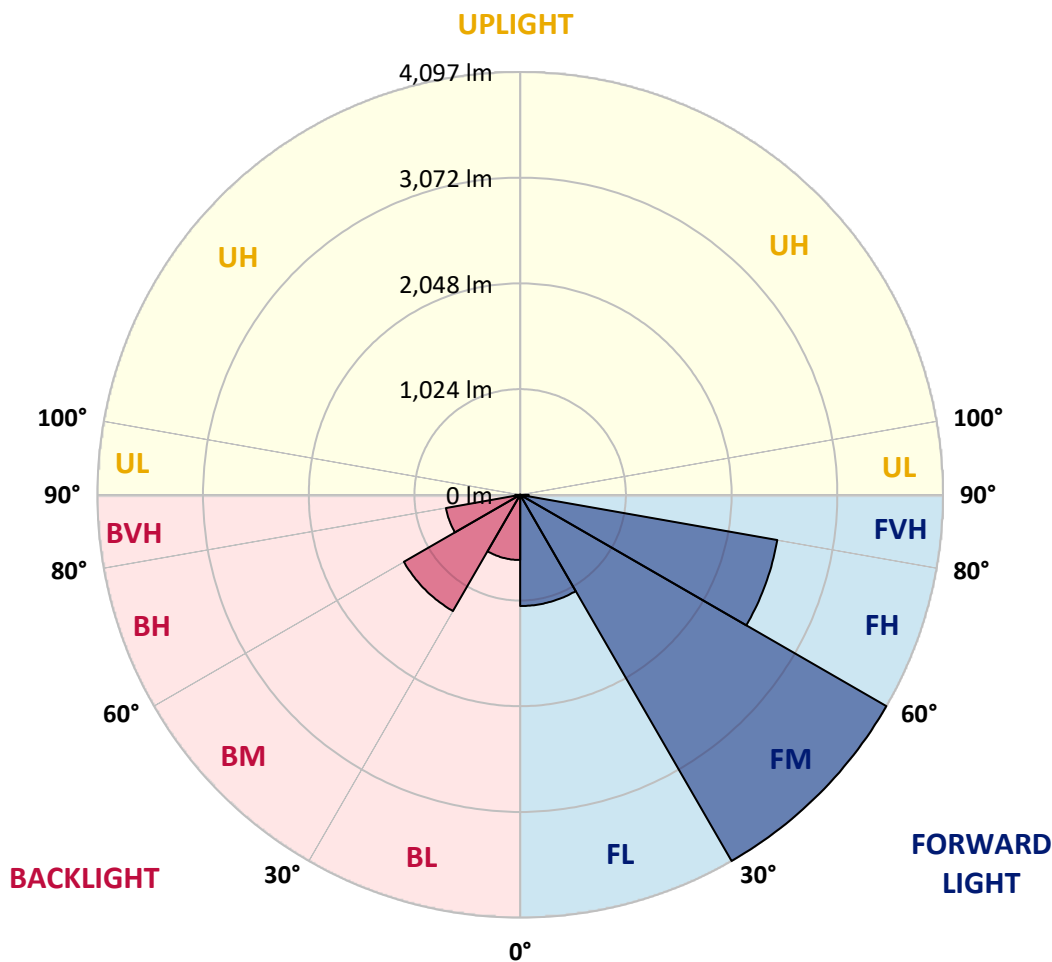
CATALOG NUMBER: VERD-CA2-90-722-U-T2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1077.2	10.3			
FM (30°-60°)	4096.6	39.0			
FH (60°-80°)	2529.6	24.1			G2/5000
FVH (80°-90°)	82.4	0.8			G1/100
BL (0°-30°)	631.8	6.0	B2/1000		
BM (30°-60°)	1300.8	12.4	B2/2500		
BH (60°-80°)	729.6	7.0	B2/1000		G2/1000
BVH (80°-90°)	47.9	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: P509389
 CATALOG NUMBER: VERD-CA2-90-722-U-T2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	1935.4	1935.4	1935.4	1935.4	1935.4	1935.4	1935.4	1935.4	1935.4	1935.4	1935.4
2.5°	2071.6	2056.7	2047.6	2037.3	2024.7	2020.1	1992.6	1968.6	1949.1	1950.3	1937.7
5°	2147.1	2131.1	2110.5	2107.1	2091.1	2087.6	2061.3	2023.5	1981.2	1975.5	1937.7
7.5°	2231.8	2222.7	2210.1	2194.1	2167.7	2150.6	2112.8	2083.1	2039.6	2033.8	1959.4
10°	2334.8	2328.0	2318.8	2318.8	2284.5	2247.9	2202.1	2127.7	2093.4	2087.6	1997.2
12.5°	2456.2	2435.6	2405.8	2388.6	2356.6	2333.7	2284.5	2205.5	2131.1	2128.8	2032.7
15°	2535.1	2518.0	2498.5	2491.7	2450.4	2412.7	2360.0	2297.1	2192.9	2184.9	2076.2
17.5°	2623.3	2607.2	2584.4	2571.8	2545.4	2502.0	2455.0	2372.6	2279.9	2271.9	2125.4
20°	2672.5	2655.3	2648.5	2650.7	2641.6	2619.8	2563.8	2489.4	2382.9	2372.6	2192.9
22.5°	2727.4	2716.0	2718.3	2735.4	2752.6	2744.6	2701.1	2618.7	2527.1	2511.1	2301.7
25°	2728.6	2719.4	2750.3	2816.7	2853.3	2871.6	2848.7	2781.2	2683.9	2669.1	2440.1
27.5°	2748.0	2734.3	2767.5	2837.3	2948.3	2986.1	2994.1	2968.9	2885.4	2867.1	2606.1
30°	2697.7	2688.5	2738.9	2860.2	2990.7	3116.6	3162.3	3201.3	3154.3	3155.5	2862.5
32.5°	2610.7	2594.7	2671.3	2820.1	3062.8	3234.5	3355.8	3512.6	3584.7	3577.8	3308.8
35°	2444.7	2453.9	2556.9	2784.7	3065.1	3354.6	3592.7	3873.1	4068.8	4064.2	3771.2
37.5°	2326.8	2322.3	2443.6	2685.1	3063.9	3461.1	3822.7	4289.7	4542.7	4535.8	4168.4
40°	2184.9	2186.1	2307.4	2561.5	3010.1	3527.5	4060.8	4684.6	4942.1	4931.8	4548.4
42.5°	2032.7	2037.3	2150.6	2410.4	2935.7	3577.8	4273.7	5084.0	5333.5	5342.7	4852.8
45°	1896.5	1898.8	2010.9	2249.0	2804.1	3583.5	4464.8	5461.7	5704.4	5682.6	5172.2
47.5°	1696.2	1698.5	1864.4	2095.6	2630.1	3536.6	4622.8	5821.1	6043.1	5997.4	5442.3
50°	1328.8	1333.4	1530.2	1936.6	2418.4	3429.0	4747.5	6158.7	6330.4	6311.0	5719.2
52.5°	1226.9	1223.5	1305.9	1746.6	2228.4	3234.5	4826.5	6462.0	6636.0	6633.7	5948.1
55°	1175.4	1172.0	1199.5	1415.8	2041.8	2946.0	4824.2	6697.8	6889.0	6842.0	6157.6
57.5°	1083.9	1077.0	1148.0	1254.4	1833.5	2586.6	4709.8	6909.6	7072.1	7058.3	6346.4
60°	1018.6	1012.9	1061.0	1159.4	1611.5	2221.5	4415.6	7019.4	7256.3	7262.1	6505.5
62.5°	951.1	947.7	988.9	1080.4	1437.5	1954.9	3962.4	6875.2	7370.8	7339.9	6664.6
65°	874.4	872.1	911.0	985.4	1264.7	1752.3	3518.3	6617.7	7267.8	7303.3	6685.2
67.5°	782.9	781.7	819.5	871.0	1075.9	1548.6	2838.4	6314.4	6973.6	6934.7	6420.8
70°	670.7	666.1	713.0	761.1	900.7	1317.4	2209.0	5775.3	6495.2	6636.0	5894.4
72.5°	564.3	562.0	606.6	642.1	746.2	1075.9	1611.5	4994.7	6137.0	5934.4	5310.6
75°	441.8	430.3	477.3	510.5	588.3	856.1	1098.8	3336.3	5165.3	5122.9	4461.4
77.5°	178.5	207.2	247.2	277.0	328.5	485.3	574.6	1582.9	3295.1	3440.5	3102.8
80°	68.7	73.3	176.3	199.1	220.9	279.3	220.9	667.3	1300.2	1418.1	1796.9
82.5°	38.9	43.5	87.0	83.6	82.4	71.0	82.4	327.3	678.7	743.9	867.6
85°	21.7	24.0	35.5	38.9	33.2	28.6	25.2	85.8	169.4	160.2	179.7
87.5°	3.4	4.6	5.7	5.7	3.4	3.4	3.4	4.6	4.6	4.6	5.7
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: P509389
 CATALOG NUMBER: VERD-CA2-90-722-U-T2

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1935.4	1935.4	1935.4	1935.4	1935.4	1935.4	1935.4	1935.4	1935.4	1935.4	1935.4
2.5°	1925.1	1912.5	1899.9	1885.0	1866.7	1855.3	1850.7	1856.4	1872.5	1853.0	1837.0
5°	1918.2	1901.1	1872.5	1843.8	1821.0	1801.5	1775.2	1772.9	1777.5	1769.4	1748.8
7.5°	1933.1	1907.9	1849.6	1830.1	1782.0	1736.3	1721.4	1715.7	1701.9	1685.9	1666.4
10°	1962.9	1911.4	1851.9	1794.6	1750.0	1700.8	1643.6	1644.7	1639.0	1620.7	1602.3
12.5°	1977.8	1917.1	1830.1	1769.4	1700.8	1640.1	1584.0	1558.9	1569.2	1554.3	1534.8
15°	2005.2	1941.1	1822.1	1732.8	1639.0	1570.3	1528.0	1491.3	1468.4	1471.9	1460.4
17.5°	2056.7	1962.9	1801.5	1692.8	1590.9	1509.6	1428.4	1424.9	1390.6	1371.2	1354.0
20°	2110.5	2001.8	1799.2	1649.3	1513.1	1412.4	1347.1	1310.5	1289.9	1273.9	1261.3
22.5°	2180.3	2055.6	1807.2	1624.1	1443.3	1329.9	1246.4	1197.2	1164.0	1152.5	1143.4
25°	2278.8	2123.1	1829.0	1579.5	1370.0	1239.5	1126.2	1074.7	1036.9	1027.8	1020.9
27.5°	2413.8	2209.0	1850.7	1531.4	1284.2	1112.5	992.3	942.0	899.6	898.5	885.9
30°	2626.7	2340.6	1858.7	1489.0	1192.6	976.3	856.1	809.2	777.1	764.5	773.7
32.5°	3023.9	2631.3	1909.1	1423.8	1077.0	843.5	741.7	703.9	668.4	654.7	663.8
35°	3453.1	2979.2	1993.8	1379.2	950.0	717.6	647.8	603.2	559.7	552.8	549.4
37.5°	3767.8	3296.3	2154.0	1305.9	829.8	640.9	549.4	512.8	487.6	473.8	486.4
40°	4124.9	3559.5	2275.3	1228.1	707.3	559.7	457.8	446.4	434.9	425.8	439.5
42.5°	4407.6	3830.8	2419.5	1125.1	608.9	475.0	407.5	416.6	422.3	417.8	418.9
45°	4667.4	4032.2	2428.7	968.3	519.6	412.0	392.6	410.9	424.6	422.3	421.2
47.5°	4921.5	4272.5	2450.4	802.3	455.5	396.0	393.7	407.5	425.8	429.2	429.2
50°	5183.6	4455.7	2417.3	645.5	431.5	398.3	397.2	396.0	418.9	420.0	423.5
52.5°	5380.5	4604.5	2260.5	533.4	430.3	405.2	402.9	391.4	401.7	409.7	404.0
55°	5588.8	4789.9	2062.5	491.0	428.1	407.5	416.6	397.2	390.3	383.4	390.3
57.5°	5786.8	4919.2	1802.6	465.8	418.9	404.0	422.3	396.0	381.1	361.7	354.8
60°	5939.0	4949.0	1513.1	439.5	407.5	396.0	397.2	388.0	368.5	344.5	334.2
62.5°	5990.5	4966.1	1272.7	414.3	384.6	383.4	374.3	370.8	362.8	347.9	343.4
65°	5947.0	4771.6	1016.3	383.4	365.1	366.3	352.5	341.1	322.8	298.7	296.4
67.5°	5648.3	4429.3	779.4	344.5	335.3	346.8	331.9	312.5	291.9	275.8	278.1
70°	5136.7	4024.2	547.1	290.7	301.0	321.6	315.9	290.7	267.8	254.1	256.4
72.5°	4567.8	3409.6	372.0	226.6	244.9	288.4	288.4	271.3	248.4	230.1	225.5
75°	3603.0	2678.2	240.4	149.9	161.4	235.8	255.2	228.9	203.7	192.3	187.7
77.5°	2445.9	1744.3	153.4	85.8	107.6	154.5	201.4	204.9	241.5	242.6	232.3
80°	1437.5	998.0	93.9	50.4	53.8	89.3	161.4	202.6	256.4	180.8	166.0
82.5°	715.3	425.8	42.3	30.9	32.0	44.6	87.0	232.3	198.0	113.3	108.7
85°	159.1	69.8	17.2	16.0	18.3	22.9	44.6	192.3	121.3	91.6	89.3
87.5°	5.7	4.6	4.6	4.6	3.4	3.4	9.2	62.9	48.1	40.1	37.8
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)