

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: P509261

Luminaire Tested: **VERD-CA2-60-730-U-T2**

Issue Date: 3/4/2021

Test Information

Test Method: LM-79-08
Report Number: P509261
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-CA2-60-730-U-T2
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 850mA LEDS AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9005 lumens
Efficiency: N/A
Efficacy: 142.0 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

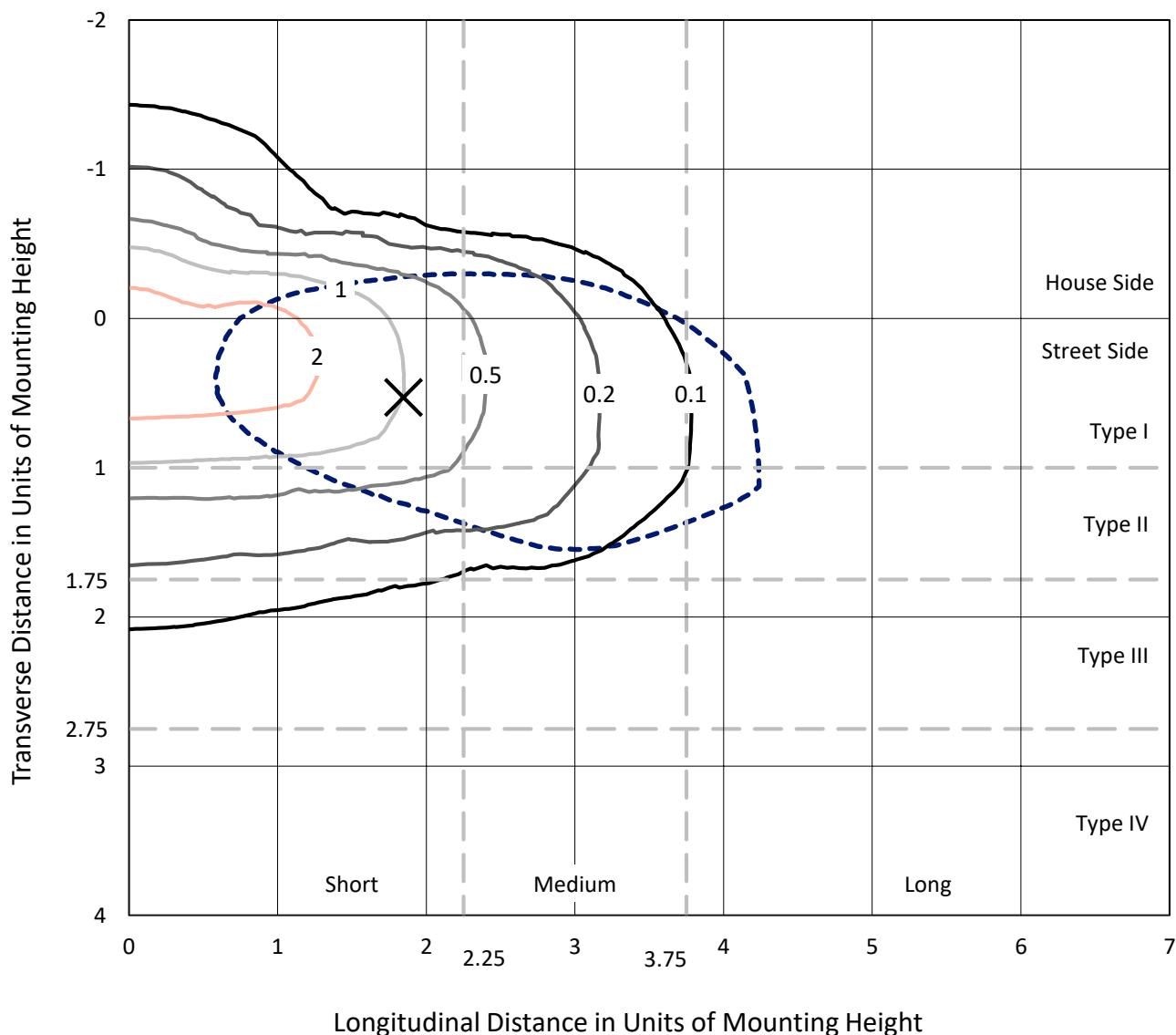
Input Watts (W): 63.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

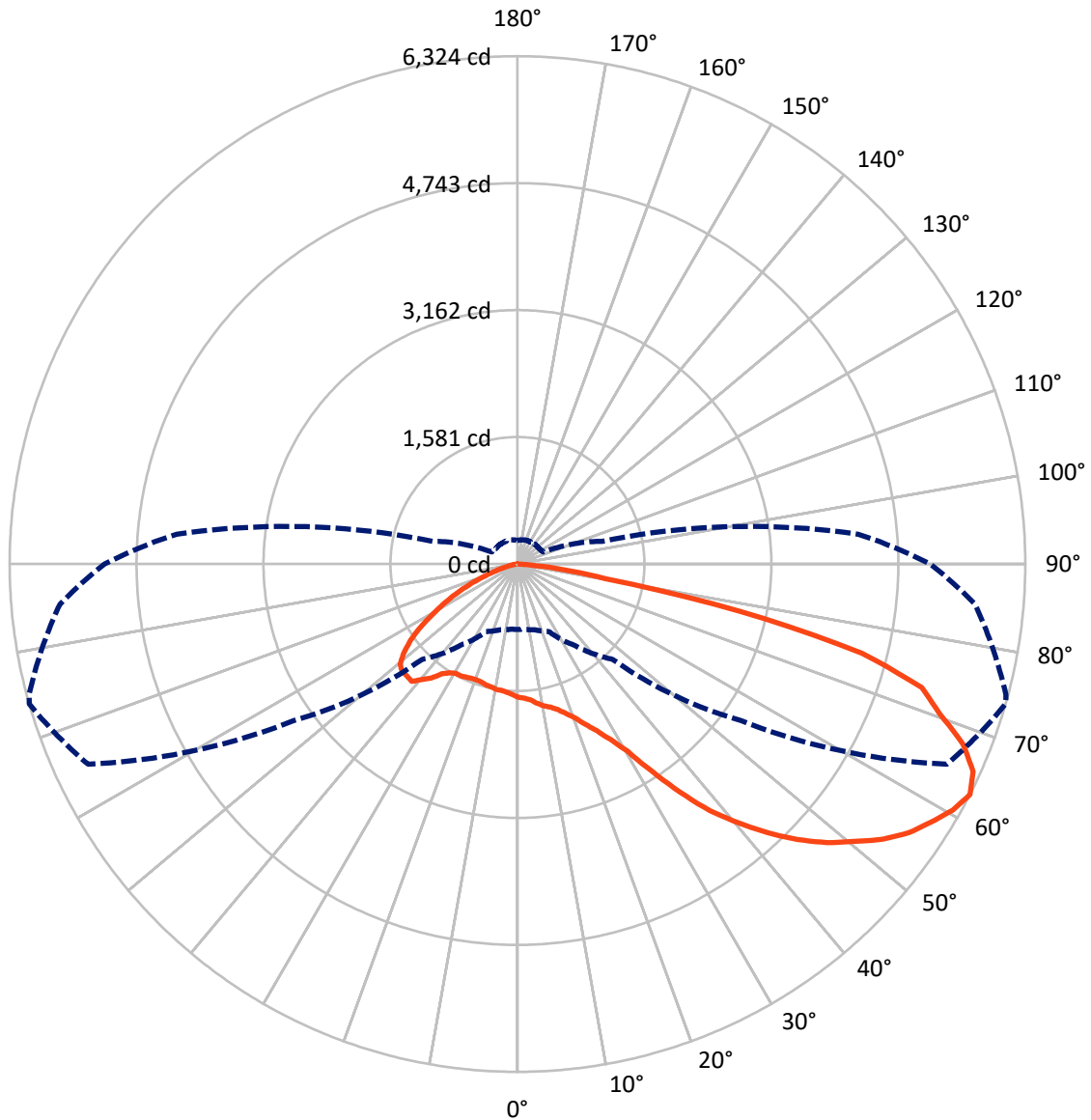
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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

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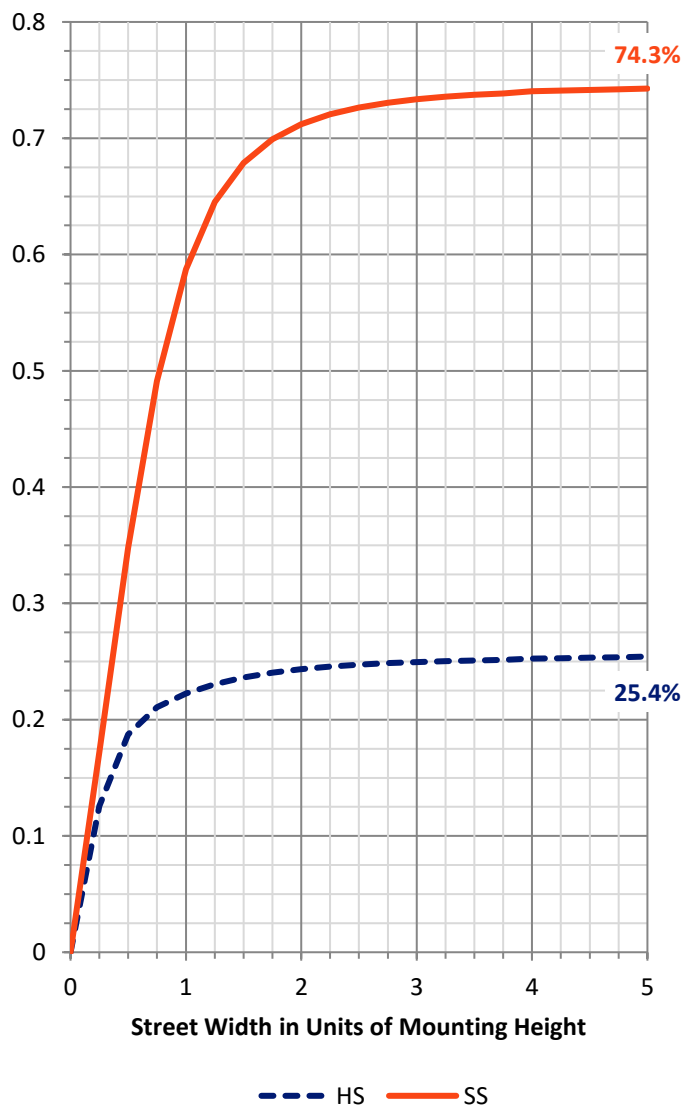
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2325.2	0.0	2325.2
	% Fixture	25.8	0.0	25.8
Street Side	Lumens	6679.8	0.0	6679.8
	% Fixture	74.2	0.0	74.2
Total	Lumens	9005.0	0.0	9005.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.6	1.8
10°-20°	486.5	5.4
20°-30°	820.3	9.1
30°-40°	1198.5	13.3
40°-50°	1595.8	17.7
50°-60°	1836.5	20.4
60°-70°	1774.6	19.7
70°-80°	1021.6	11.3
80°-90°	111.8	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°	9005.0	100.0
0°-180°	9005.0	100.0

Coefficient of Utilization



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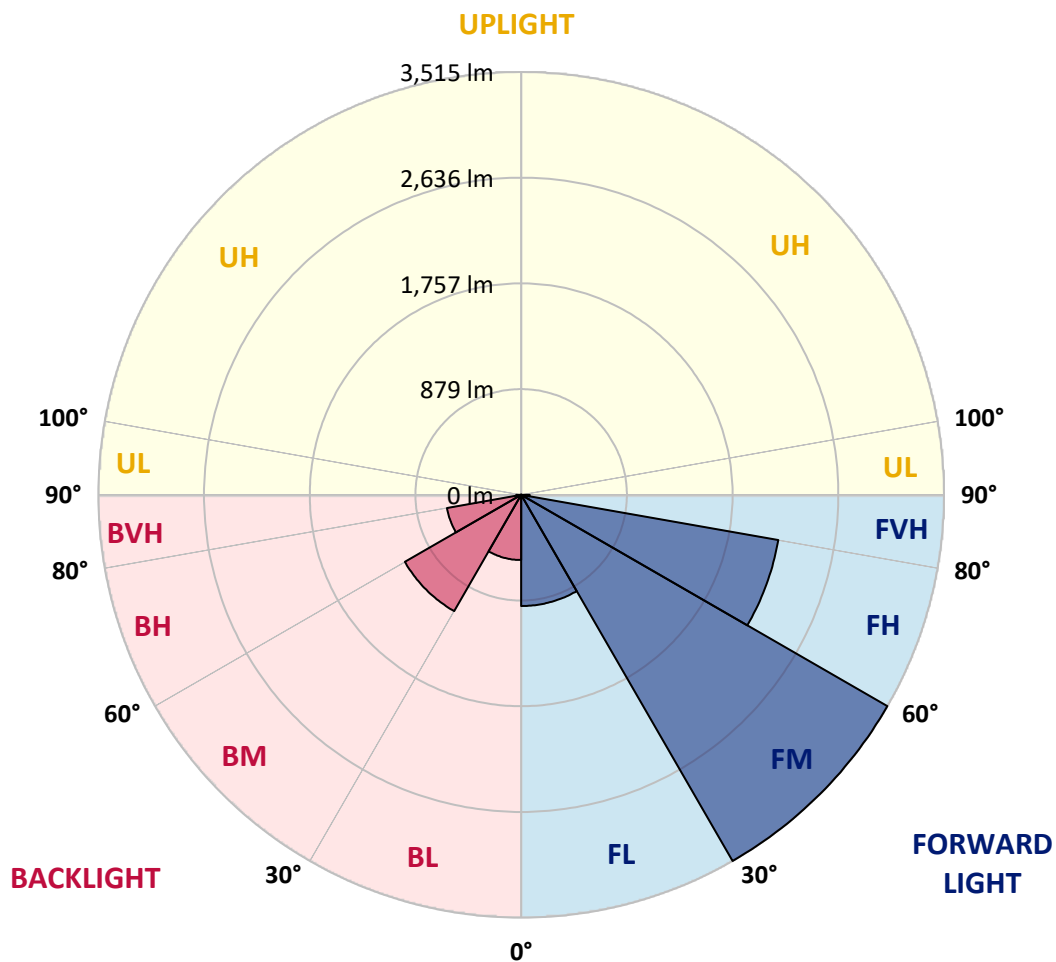
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	924.2	10.3			
FM (30°-60°)	3514.7	39.0			
FH (60°-80°)	2170.3	24.1			G2/5000
FVH (80°-90°)	70.7	0.8			G1/100
BL (0°-30°)	542.1	6.0	B2/1000		
BM (30°-60°)	1116.0	12.4	B2/2500		
BH (60°-80°)	626.0	7.0	B2/1000		G2/1000
BVH (80°-90°)	41.1	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	1660.5	1660.5	1660.5	1660.5	1660.5	1660.5	1660.5	1660.5	1660.5	1660.5	1660.5
2.5°	1777.3	1764.6	1756.7	1747.9	1737.1	1733.1	1709.6	1689.0	1672.3	1673.2	1662.4
5°	1842.1	1828.4	1810.7	1807.8	1794.0	1791.1	1768.5	1736.1	1699.8	1694.8	1662.4
7.5°	1914.8	1906.9	1896.1	1882.4	1859.8	1845.1	1812.7	1787.1	1749.8	1744.9	1681.1
10°	2003.2	1997.3	1989.4	1989.4	1960.0	1928.5	1889.3	1825.4	1796.0	1791.1	1713.5
12.5°	2107.3	2089.6	2064.1	2049.3	2021.8	2002.2	1960.0	1892.2	1828.4	1826.4	1743.9
15°	2175.0	2160.3	2143.6	2137.7	2102.4	2069.9	2024.8	1970.8	1881.4	1874.5	1781.3
17.5°	2250.6	2236.9	2217.2	2206.4	2183.9	2146.5	2106.3	2035.6	1956.0	1949.2	1823.5
20°	2292.8	2278.1	2272.2	2274.2	2266.3	2247.7	2199.6	2135.7	2044.4	2035.6	1881.4
22.5°	2340.0	2330.2	2332.1	2346.9	2361.6	2354.7	2317.4	2246.7	2168.1	2154.4	1974.7
25°	2341.0	2333.1	2359.6	2416.6	2448.0	2463.7	2444.1	2386.1	2302.7	2289.9	2093.5
27.5°	2357.7	2345.9	2374.4	2434.3	2529.5	2561.9	2568.8	2547.2	2475.5	2459.8	2235.9
30°	2314.5	2306.6	2349.8	2453.9	2565.8	2673.8	2713.1	2746.5	2706.2	2707.2	2455.9
32.5°	2239.8	2226.1	2291.9	2419.5	2627.7	2775.0	2879.1	3013.6	3075.5	3069.6	2838.8
35°	2097.4	2105.3	2193.7	2389.1	2629.7	2878.1	3082.3	3322.9	3490.8	3486.9	3235.5
37.5°	1996.3	1992.4	2096.5	2303.7	2628.7	2969.4	3279.7	3680.3	3897.4	3891.5	3576.3
40°	1874.5	1875.5	1979.6	2197.6	2582.5	3026.4	3484.0	4019.1	4240.1	4231.2	3902.3
42.5°	1743.9	1747.9	1845.1	2068.0	2518.7	3069.6	3666.6	4361.8	4575.9	4583.7	4163.5
45°	1627.1	1629.1	1725.3	1929.5	2405.8	3074.5	3830.6	4685.9	4894.0	4875.4	4437.4
47.5°	1455.2	1457.2	1599.6	1797.9	2256.5	3034.2	3966.1	4994.2	5184.7	5145.4	4669.2
50°	1140.0	1144.0	1312.9	1661.5	2074.9	2941.9	4073.1	5283.9	5431.2	5414.5	4906.8
52.5°	1052.6	1049.7	1120.4	1498.5	1911.9	2775.0	4140.9	5544.1	5693.3	5691.4	5103.2
55°	1008.5	1005.5	1029.1	1214.7	1751.8	2527.5	4138.9	5746.4	5910.3	5870.1	5282.9
57.5°	929.9	924.0	984.9	1076.2	1573.1	2219.2	4040.7	5928.0	6067.5	6055.7	5444.9
60°	873.9	869.0	910.3	994.7	1382.6	1906.0	3788.4	6022.3	6225.6	6230.5	5581.4
62.5°	816.0	813.1	848.4	927.0	1233.3	1677.2	3399.5	5898.6	6323.7	6297.2	5717.9
65°	750.2	748.2	781.6	845.5	1085.1	1503.4	3018.5	5677.6	6235.4	6265.8	5735.6
67.5°	671.7	670.7	703.1	747.3	923.0	1328.6	2435.2	5417.4	5983.0	5949.6	5508.7
70°	575.4	571.5	611.8	653.0	772.8	1130.2	1895.2	4954.9	5572.6	5693.3	5057.0
72.5°	484.1	482.1	520.4	550.9	640.2	923.0	1382.6	4285.2	5265.2	5091.4	4556.2
75°	379.0	369.2	409.5	437.9	504.7	734.5	942.7	2862.4	4431.5	4395.2	3827.6
77.5°	153.2	177.7	212.1	237.6	281.8	416.3	492.9	1358.0	2827.0	2951.7	2662.1
80°	58.9	62.8	151.2	170.9	189.5	239.6	189.5	572.5	1115.5	1216.6	1541.7
82.5°	33.4	37.3	74.6	71.7	70.7	60.9	70.7	280.8	582.3	638.3	744.3
85°	18.7	20.6	30.4	33.4	28.5	24.5	21.6	73.6	145.3	137.5	154.2
87.5°	2.9	3.9	4.9	4.9	2.9	2.9	2.9	3.9	3.9	3.9	4.9
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°	1660.5	1660.5	1660.5	1660.5	1660.5	1660.5	1660.5	1660.5	1660.5	1660.5	1660.5
2.5°	1651.6	1640.8	1630.0	1617.3	1601.6	1591.7	1587.8	1592.7	1606.5	1589.8	1576.0
5°	1645.7	1631.0	1606.5	1581.9	1562.3	1545.6	1523.0	1521.0	1525.0	1518.1	1500.4
7.5°	1658.5	1636.9	1586.8	1570.1	1528.9	1489.6	1476.9	1471.9	1460.2	1446.4	1429.7
10°	1684.0	1639.9	1588.8	1539.7	1501.4	1459.2	1410.1	1411.1	1406.2	1390.4	1374.7
12.5°	1696.8	1644.8	1570.1	1518.1	1459.2	1407.1	1359.0	1337.4	1346.3	1333.5	1316.8
15°	1720.4	1665.4	1563.3	1486.7	1406.2	1347.2	1310.9	1279.5	1259.8	1262.8	1253.0
17.5°	1764.6	1684.0	1545.6	1452.3	1364.9	1295.2	1225.5	1222.5	1193.1	1176.4	1161.6
20°	1810.7	1717.4	1543.6	1415.0	1298.1	1211.7	1155.8	1124.3	1106.7	1092.9	1082.1
22.5°	1870.6	1763.6	1550.5	1393.4	1238.2	1141.0	1069.3	1027.1	998.6	988.8	981.0
25°	1955.1	1821.5	1569.2	1355.1	1175.4	1063.5	966.2	922.0	889.6	881.8	875.9
27.5°	2070.9	1895.2	1587.8	1313.8	1101.7	954.5	851.3	808.1	771.8	770.8	760.0
30°	2253.6	2008.1	1594.7	1277.5	1023.2	837.6	734.5	694.2	666.7	655.9	663.8
32.5°	2594.3	2257.5	1637.9	1221.5	924.0	723.7	636.3	603.9	573.5	561.7	569.5
35°	2962.5	2556.0	1710.6	1183.2	815.0	615.7	555.8	517.5	480.2	474.3	471.3
37.5°	3232.6	2828.0	1848.0	1120.4	711.9	549.9	471.3	439.9	418.3	406.5	417.3
40°	3538.9	3053.9	1952.1	1053.6	606.8	480.2	392.8	383.0	373.1	365.3	377.1
42.5°	3781.5	3286.6	2075.8	965.3	522.4	407.5	349.6	357.4	362.3	358.4	359.4
45°	4004.4	3459.4	2083.7	830.7	445.8	353.5	336.8	352.5	364.3	362.3	361.4
47.5°	4222.4	3665.6	2102.4	688.3	390.8	339.8	337.8	349.6	365.3	368.2	368.2
50°	4447.2	3822.7	2073.9	553.8	370.2	341.7	340.7	339.8	359.4	360.4	363.3
52.5°	4616.1	3950.4	1939.3	457.6	369.2	347.6	345.6	335.8	344.7	351.5	346.6
55°	4794.9	4109.5	1769.5	421.3	367.2	349.6	357.4	340.7	334.8	329.0	334.8
57.5°	4964.7	4220.4	1546.6	399.7	359.4	346.6	362.3	339.8	327.0	310.3	304.4
60°	5095.3	4245.9	1298.1	377.1	349.6	339.8	340.7	332.9	316.2	295.6	286.7
62.5°	5139.5	4260.7	1091.9	355.5	329.9	329.0	321.1	318.2	311.3	298.5	294.6
65°	5102.2	4093.7	872.0	329.0	313.2	314.2	302.4	292.6	276.9	256.3	254.3
67.5°	4845.9	3800.1	668.7	295.6	287.7	297.5	284.8	268.1	250.4	236.6	238.6
70°	4407.0	3452.5	469.4	249.4	258.3	275.9	271.0	249.4	229.8	218.0	220.0
72.5°	3919.0	2925.2	319.1	194.4	210.1	247.5	247.5	232.7	213.1	197.4	193.4
75°	3091.2	2297.8	206.2	128.6	138.5	202.3	219.0	196.4	174.8	165.0	161.0
77.5°	2098.4	1496.5	131.6	73.6	92.3	132.6	172.8	175.8	207.2	208.2	199.3
80°	1233.3	856.3	80.5	43.2	46.2	76.6	138.5	173.8	220.0	155.1	142.4
82.5°	613.7	365.3	36.3	26.5	27.5	38.3	74.6	199.3	169.9	97.2	93.3
85°	136.5	59.9	14.7	13.7	15.7	19.6	38.3	165.0	104.1	78.6	76.6
87.5°	4.9	3.9	3.9	3.9	2.9	2.9	7.9	54.0	41.2	34.4	32.4
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)