

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: P233474

Luminaire Tested: **VERD-C029-D-U-T2-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P233474
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1710-389-10)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-C029-D-U-T2-7030
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 1030mA LEDS AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9879 lumens
Efficiency: N/A
Efficacy: 122.0 lumens/watt
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B2 - U0 - G2

Input Watts (W): 81
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

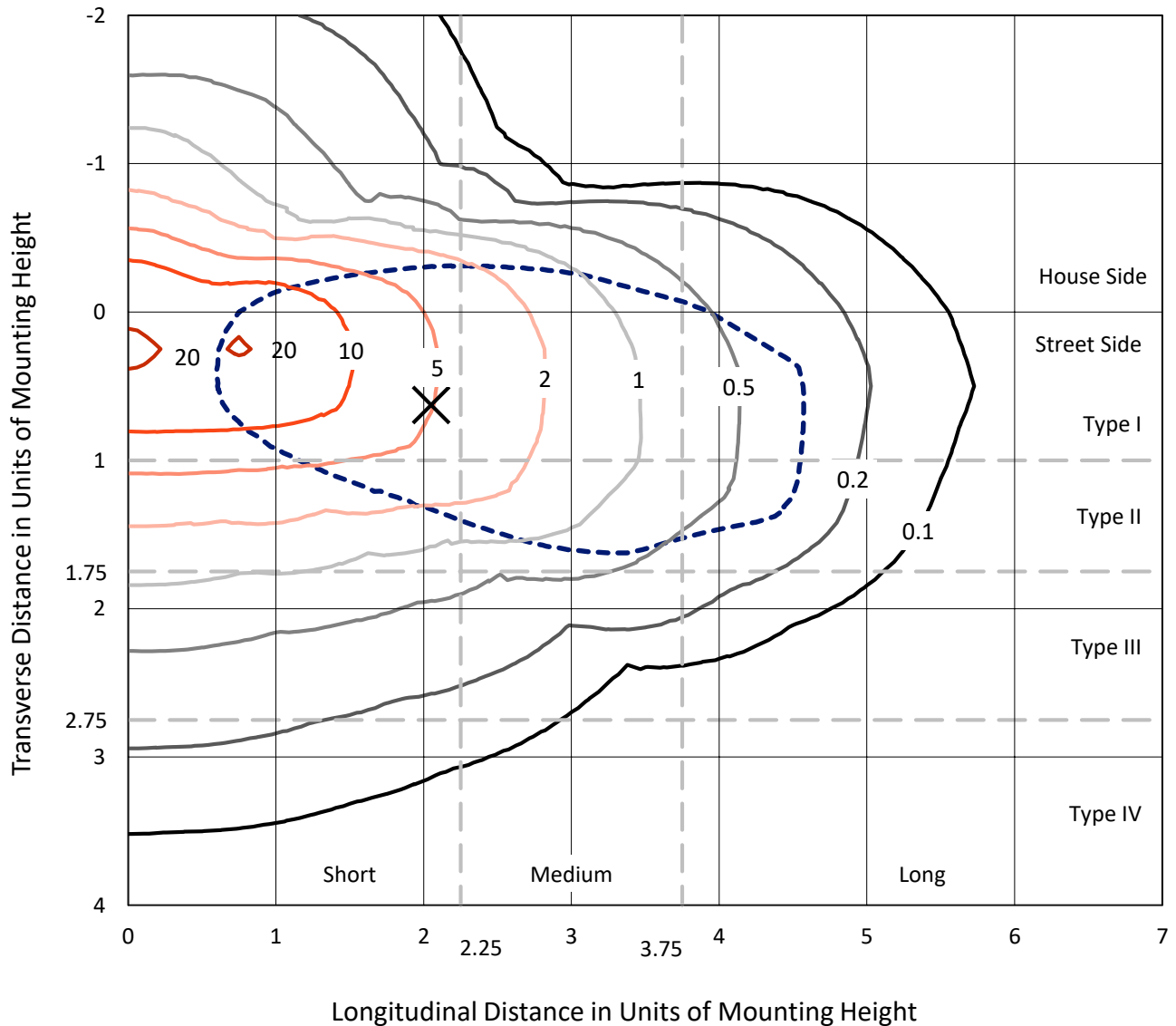


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

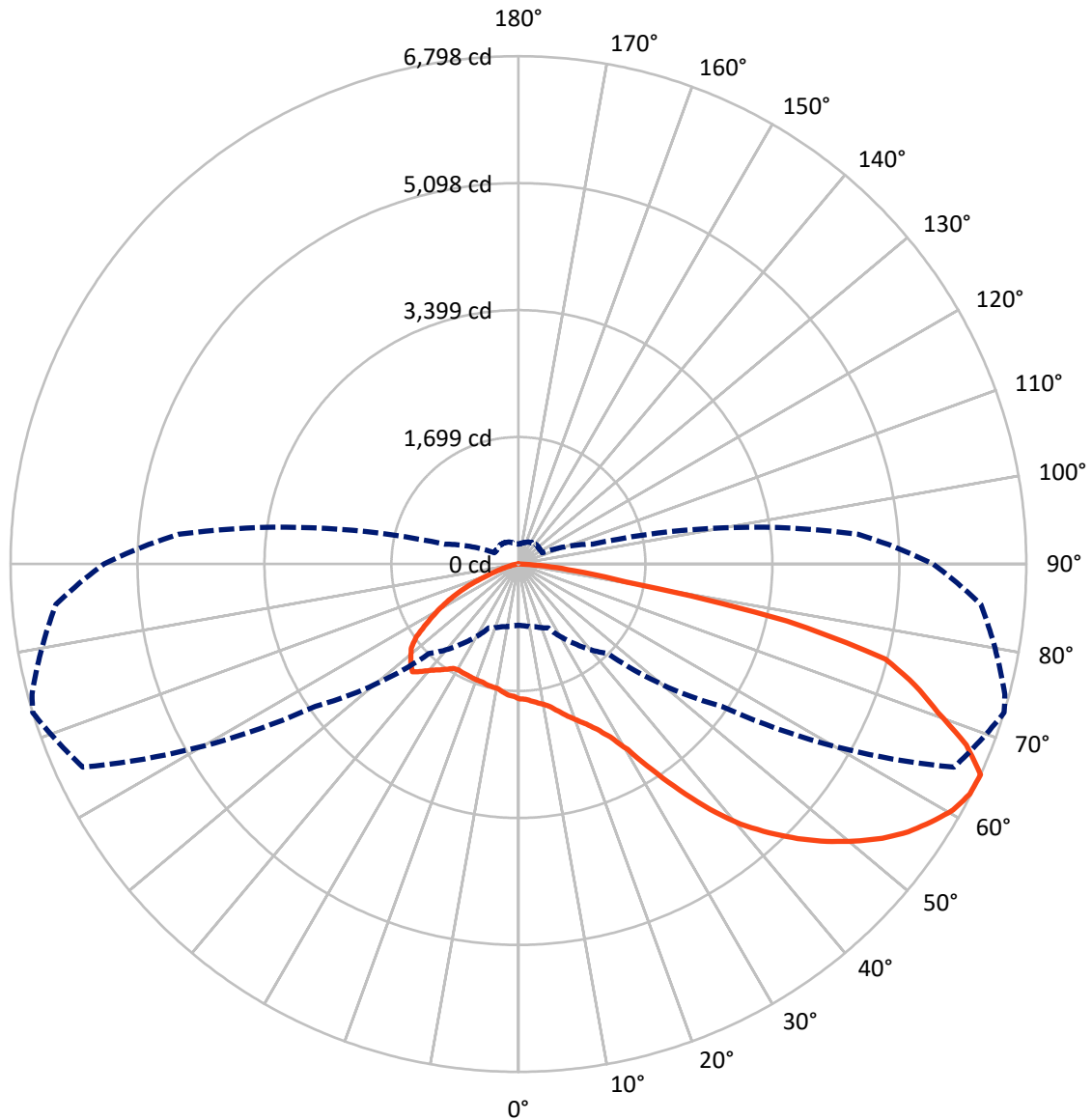


Based on 10 foot mounting height. Maximum calculated value = 21 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 73-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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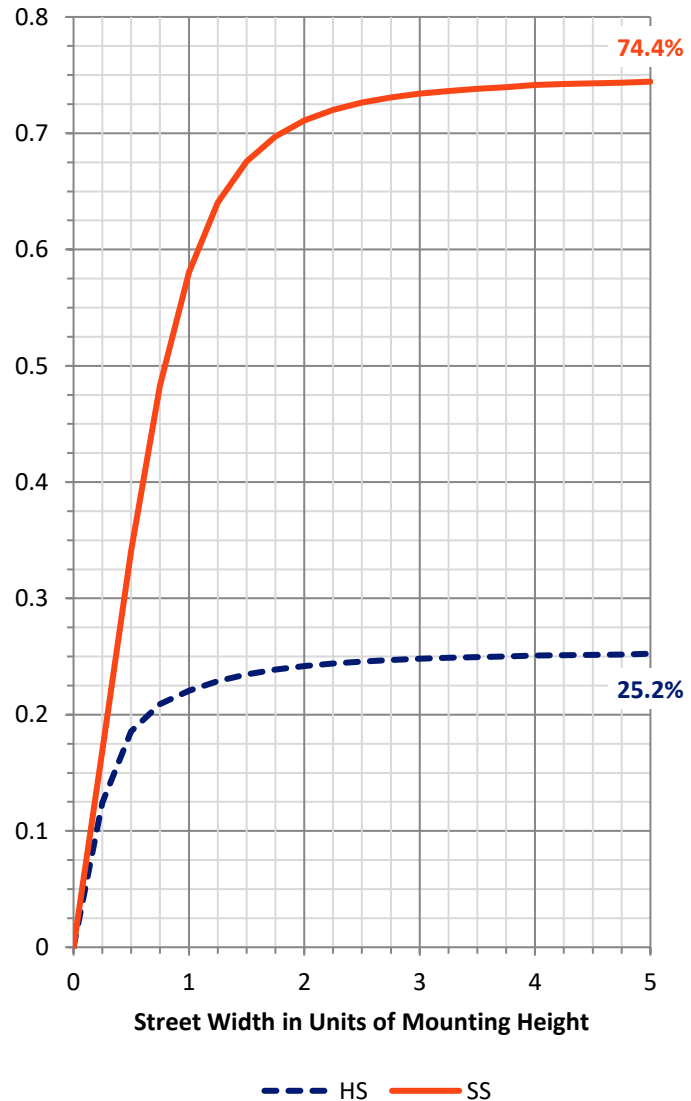
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2532.4	0.0	2532.4
	% Fixture	25.6	0.0	25.6
Street Side	Lumens	7346.6	0.0	7346.6
	% Fixture	74.4	0.0	74.4
Total	Lumens	9879.0	0.0	9879.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	172.4	1.7
10°-20°	521.2	5.3
20°-30°	874.3	8.8
30°-40°	1282.1	13.0
40°-50°	1732.8	17.5
50°-60°	2007.3	20.3
60°-70°	1960.8	19.8
70°-80°	1177.4	11.9
80°-90°	150.8	1.5
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°	9879.0	100.0
0°-180°	9879.0	100.0



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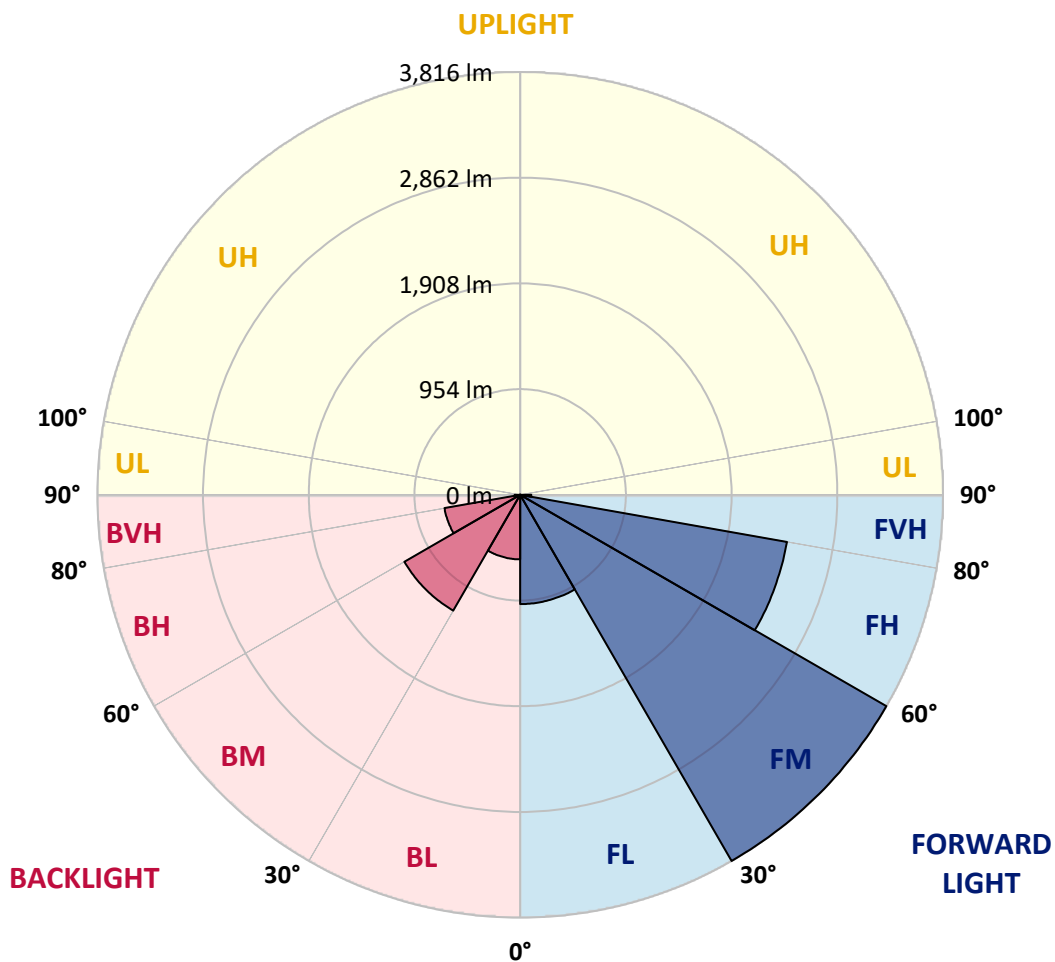
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	985.7	10.0			
FM (30°-60°)	3815.6	38.6			
FH (60°-80°)	2444.8	24.7			G2/5000
FVH (80°-90°)	100.4	1.0			G2/225
BL (0°-30°)	582.1	5.9	B2/1000		
BM (30°-60°)	1206.6	12.2	B2/2500		
BH (60°-80°)	693.4	7.0	B2/1000		G2/1000
BVH (80°-90°)	50.4	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°	73°	75°	85°
0°	1806.4	1806.4	1806.4	1806.4	1806.4	1806.4	1806.4	1806.4	1806.4	1806.4	1806.4
2.5°	1917.6	1924.8	1916.7	1893.4	1881.7	1873.6	1849.4	1827.9	1810.9	1809.1	1792.9
5°	1991.1	2001.9	1988.4	1958.8	1947.2	1930.1	1903.2	1873.6	1843.1	1836.9	1804.6
7.5°	2084.4	2086.2	2079.0	2049.4	2025.2	1989.3	1942.7	1911.3	1876.3	1866.5	1815.3
10°	2163.3	2162.4	2153.5	2124.8	2100.6	2069.2	2003.7	1952.6	1911.3	1898.7	1827.9
12.5°	2238.7	2236.9	2227.9	2198.3	2167.8	2141.8	2092.5	2023.4	1967.8	1951.7	1863.8
15°	2332.0	2327.5	2313.1	2273.7	2249.4	2218.9	2183.1	2114.0	2050.3	2027.9	1915.8
17.5°	2403.7	2402.8	2392.0	2358.9	2330.2	2297.0	2263.8	2210.0	2140.9	2115.8	1966.9
20°	2445.0	2441.4	2438.7	2412.7	2405.5	2387.6	2340.0	2298.8	2229.7	2203.7	2024.3
22.5°	2488.9	2489.8	2490.7	2477.3	2497.9	2482.6	2447.7	2397.4	2327.5	2297.9	2105.0
25°	2498.8	2500.6	2518.5	2548.1	2573.2	2601.0	2575.9	2526.6	2451.2	2419.9	2215.4
27.5°	2471.0	2478.2	2532.0	2582.2	2671.0	2706.9	2702.4	2699.7	2622.6	2591.2	2366.9
30°	2496.1	2496.1	2532.9	2619.0	2731.1	2825.3	2845.9	2903.3	2880.0	2857.5	2621.7
32.5°	2420.7	2434.2	2499.7	2619.9	2797.4	2934.7	3028.0	3187.6	3280.0	3261.1	2982.2
35°	2279.0	2297.0	2392.9	2576.8	2830.6	3063.8	3230.7	3538.3	3716.8	3739.2	3416.3
37.5°	2169.6	2184.9	2305.0	2509.5	2843.2	3184.9	3464.7	3932.9	4163.4	4151.8	3784.0
40°	2036.0	2062.9	2184.0	2429.7	2813.6	3288.1	3718.6	4295.3	4578.7	4524.9	4133.8
42.5°	1915.8	1939.1	2040.5	2302.4	2772.3	3346.4	3948.2	4668.4	4916.8	4873.8	4464.8
45°	1788.4	1809.1	1903.2	2149.9	2676.4	3375.1	4163.4	5025.4	5241.5	5193.1	4771.5
47.5°	1642.2	1670.0	1782.2	2006.4	2535.6	3357.1	4320.4	5335.7	5550.1	5514.2	5025.4
50°	1273.6	1302.3	1595.6	1871.8	2340.0	3282.7	4461.2	5646.0	5829.0	5794.9	5249.6
52.5°	1156.1	1168.7	1260.2	1717.6	2136.4	3135.6	4549.1	5901.6	6100.8	6066.7	5461.3
55°	1084.4	1093.3	1144.5	1402.8	1963.3	2898.8	4559.9	6167.1	6329.5	6284.6	5686.4
57.5°	1010.8	1020.7	1077.2	1209.9	1789.3	2528.4	4446.0	6392.2	6515.1	6466.7	5901.6
60°	948.9	954.3	1009.9	1101.4	1592.9	2160.6	4152.7	6545.6	6686.4	6623.6	6112.4
62.5°	892.4	899.6	940.0	1023.4	1427.9	1885.3	3743.7	6546.5	6780.6	6742.0	6219.1
65°	818.9	829.6	869.1	944.4	1294.2	1696.9	3320.3	6432.6	6797.6	6740.2	6213.8
67.5°	733.7	747.1	783.0	843.1	1116.6	1496.0	2730.2	6282.8	6464.9	6455.0	5957.2
70°	648.5	648.5	688.8	737.3	926.5	1280.8	2157.1	5749.2	5957.2	5972.5	5497.1
72.5°	547.1	548.9	580.3	622.5	746.2	1051.2	1571.4	4915.0	5553.6	5368.9	4958.1
75°	459.2	457.4	489.7	524.7	607.2	827.8	1025.2	3610.9	5075.6	5116.8	4363.4
77.5°	244.0	235.0	276.2	304.1	356.1	460.1	568.6	1810.9	3675.5	3756.2	3493.4
80°	69.1	70.0	183.0	204.5	234.1	227.8	263.7	690.6	1453.9	1638.6	2036.9
82.5°	41.3	47.5	104.0	122.0	91.5	59.2	100.5	383.9	752.5	843.1	1010.8
85°	21.5	23.3	36.8	45.7	35.0	29.6	30.5	161.4	365.9	372.2	403.6
87.5°	9.9	9.9	13.5	14.4	9.0	5.4	3.6	2.7	2.7	1.8	1.8
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°	1806.4	1806.4	1806.4	1806.4	1806.4	1806.4	1806.4	1806.4	1806.4	1806.4	1806.4
2.5°	1780.4	1789.3	1774.1	1762.4	1753.5	1748.1	1741.8	1726.5	1731.0	1737.3	1736.4
5°	1789.3	1793.8	1766.9	1730.1	1696.0	1671.8	1655.7	1631.5	1631.5	1641.3	1641.3
7.5°	1797.4	1791.1	1736.4	1674.5	1636.0	1616.2	1590.2	1564.2	1559.7	1566.9	1567.8
10°	1801.9	1775.0	1698.7	1641.3	1591.1	1550.8	1517.6	1488.0	1487.1	1496.9	1498.7
12.5°	1821.6	1769.6	1696.0	1617.1	1541.8	1498.7	1459.3	1426.1	1414.4	1415.3	1417.1
15°	1852.1	1791.1	1692.5	1583.9	1502.3	1444.9	1387.5	1345.4	1334.6	1348.9	1354.3
17.5°	1888.9	1826.1	1675.4	1553.4	1453.9	1384.8	1327.4	1289.8	1255.7	1240.4	1237.7
20°	1937.3	1855.7	1684.4	1508.6	1407.2	1314.9	1243.1	1197.4	1168.7	1166.9	1165.1
22.5°	2001.0	1888.9	1686.2	1479.0	1333.7	1237.7	1148.9	1122.9	1071.8	1053.0	1061.0
25°	2085.3	1939.1	1681.7	1447.6	1277.2	1148.0	1041.3	993.8	974.9	953.4	955.2
27.5°	2193.8	2018.9	1693.4	1406.3	1184.8	1038.6	919.3	868.2	839.5	821.6	824.3
30°	2414.5	2140.0	1692.5	1366.9	1099.6	925.6	791.1	757.0	728.3	712.1	720.2
32.5°	2728.4	2402.8	1730.1	1314.0	1002.7	774.0	683.4	644.9	620.7	602.7	607.2
35°	3116.7	2688.9	1827.0	1242.2	892.4	658.3	596.4	548.9	519.3	512.1	509.4
37.5°	3477.3	2941.9	1918.5	1194.7	766.0	594.6	516.6	469.1	443.1	452.0	452.0
40°	3799.3	3277.3	2021.6	1118.4	651.2	522.0	427.8	406.3	392.8	408.1	413.5
42.5°	4042.4	3599.3	2161.5	1018.0	557.9	435.9	365.9	381.2	386.6	397.3	394.6
45°	4343.7	3783.1	2299.7	924.7	476.3	363.2	353.4	384.8	397.3	407.2	402.7
47.5°	4620.9	3925.8	2271.9	752.5	400.9	351.6	359.7	384.8	406.3	422.4	419.8
50°	4859.4	4104.2	2218.9	584.8	384.8	362.3	365.9	374.9	407.2	418.0	418.0
52.5°	5008.3	4280.9	2153.5	472.7	396.4	375.8	369.5	368.6	390.2	398.2	391.1
55°	5187.7	4463.9	1984.0	438.6	400.9	384.8	379.4	371.3	377.6	371.3	374.9
57.5°	5386.8	4644.2	1723.9	428.7	398.2	382.1	410.8	367.7	364.1	341.7	336.3
60°	5561.7	4715.0	1496.0	406.3	383.9	374.9	382.1	363.2	345.3	315.7	304.1
62.5°	5627.2	4708.8	1264.6	383.0	362.3	364.1	363.2	349.8	333.6	304.1	296.9
65°	5548.3	4565.3	1025.2	355.2	345.3	352.5	343.5	323.8	296.9	272.7	266.4
67.5°	5281.0	4199.3	761.5	318.4	317.5	331.0	324.7	297.8	268.2	249.3	249.3
70°	4769.7	3749.1	493.3	264.6	284.3	307.6	307.6	278.9	240.4	224.2	228.7
72.5°	4210.1	3226.2	319.3	196.4	224.2	278.9	277.1	257.4	221.5	200.9	201.8
75°	3646.8	2559.8	206.3	135.4	145.3	237.7	245.8	209.9	172.2	147.1	142.6
77.5°	2772.3	1925.7	130.9	78.9	92.4	145.3	186.6	174.9	175.8	214.4	212.6
80°	1705.0	1160.6	95.1	38.6	45.7	95.1	150.7	166.8	234.1	154.3	141.7
82.5°	853.9	542.6	50.2	23.3	26.0	42.2	89.7	200.0	170.4	102.2	96.9
85°	319.3	146.2	15.2	11.7	14.4	21.5	36.8	183.0	108.5	81.6	79.8
87.5°	1.8	2.7	2.7	3.6	5.4	6.3	13.5	87.0	54.7	39.5	37.7
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)