

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: P509372

Luminaire Tested: **VERD-CA2-80-750-U-T2-HSS**

Issue Date: 3/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P509372  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-139-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: VERD-CA2-80-750-U-T2-HSS  
Description: VERDEON ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 5000K, 1100mA LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10761 lumens  
Efficiency: N/A  
Efficacy: 130.6 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

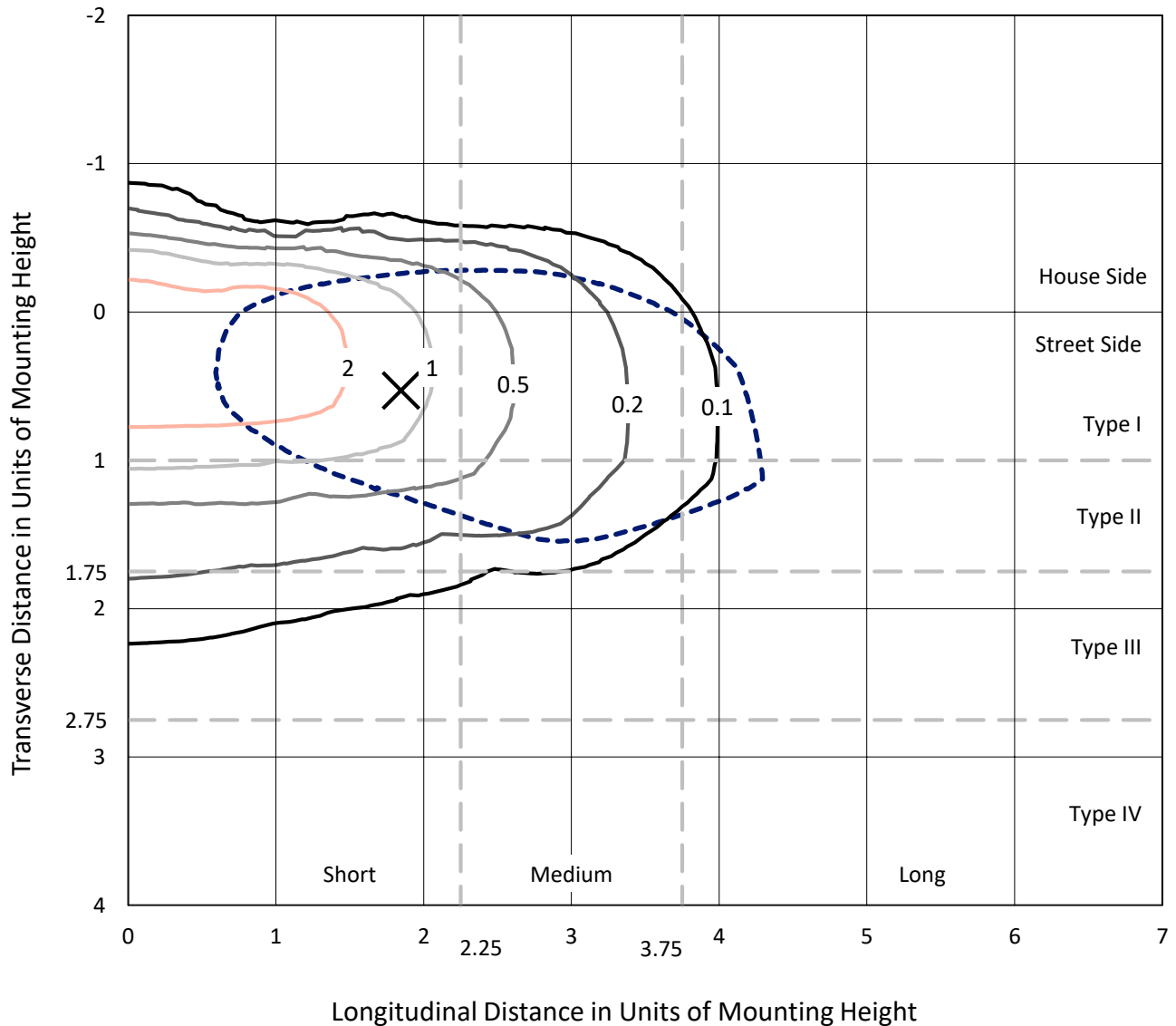
Input Watts (W): 82.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

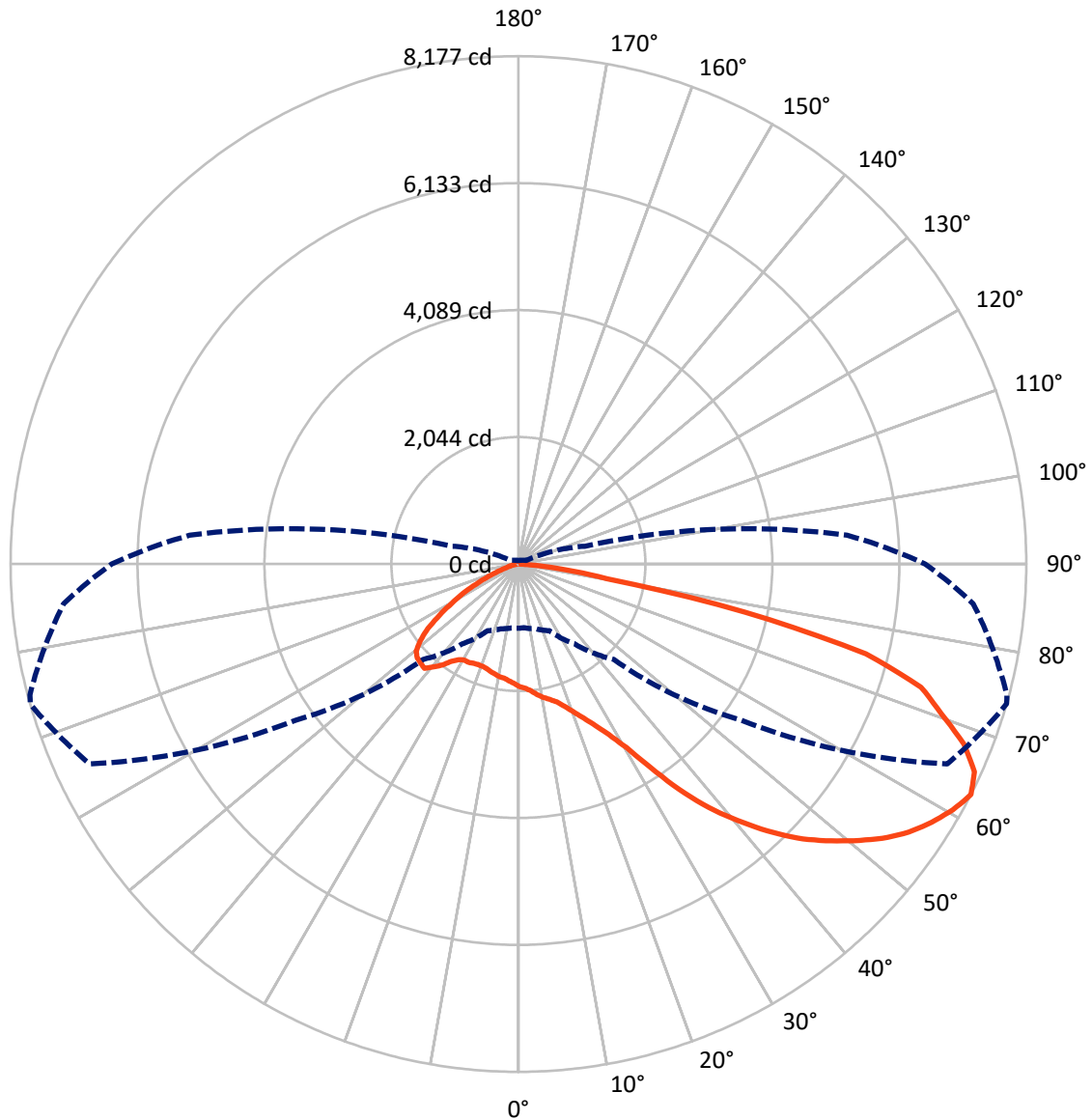
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 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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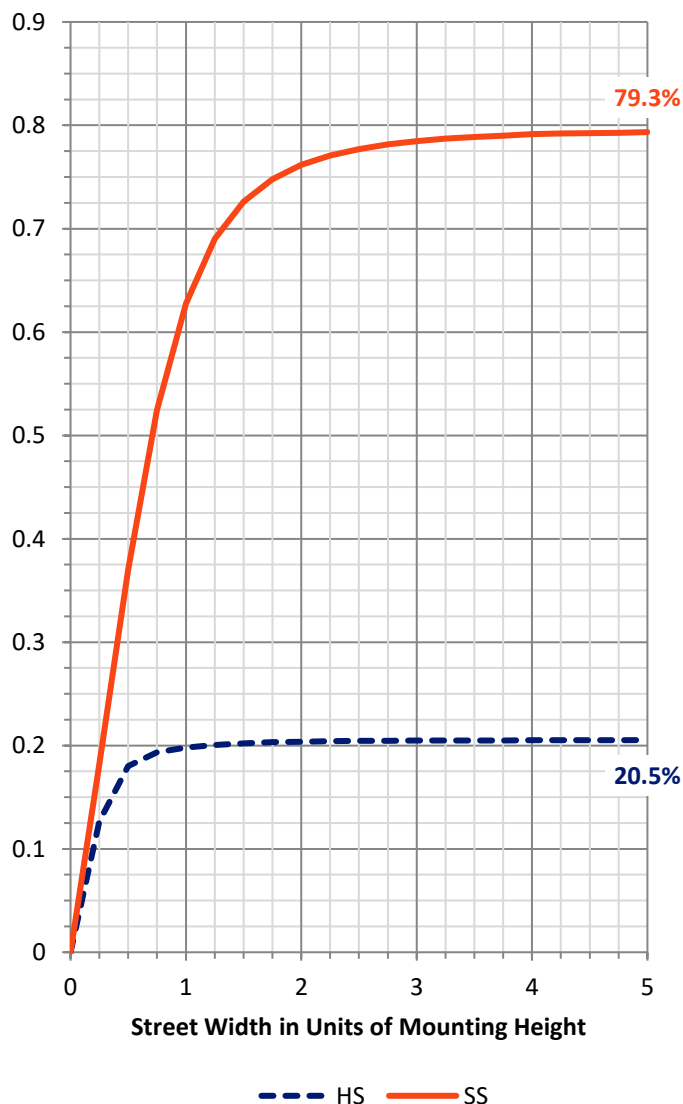
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2234.6	0.0	2234.6
	% Fixture	20.8	0.0	20.8
<b>Street Side</b>	Lumens	8526.4	0.0	8526.4
	% Fixture	79.2	0.0	79.2
<b>Total</b>	Lumens	10761.0	0.0	10761.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	188.0	1.7
10°-20°	568.0	5.3
20°-30°	958.9	8.9
30°-40°	1426.2	13.3
40°-50°	1930.4	17.9
50°-60°	2220.8	20.6
60°-70°	2143.7	19.9
70°-80°	1213.7	11.3
80°-90°	111.3	1.0
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°	10761.0	100.0
0°-180°	10761.0	100.0

**Coefficient of Utilization**



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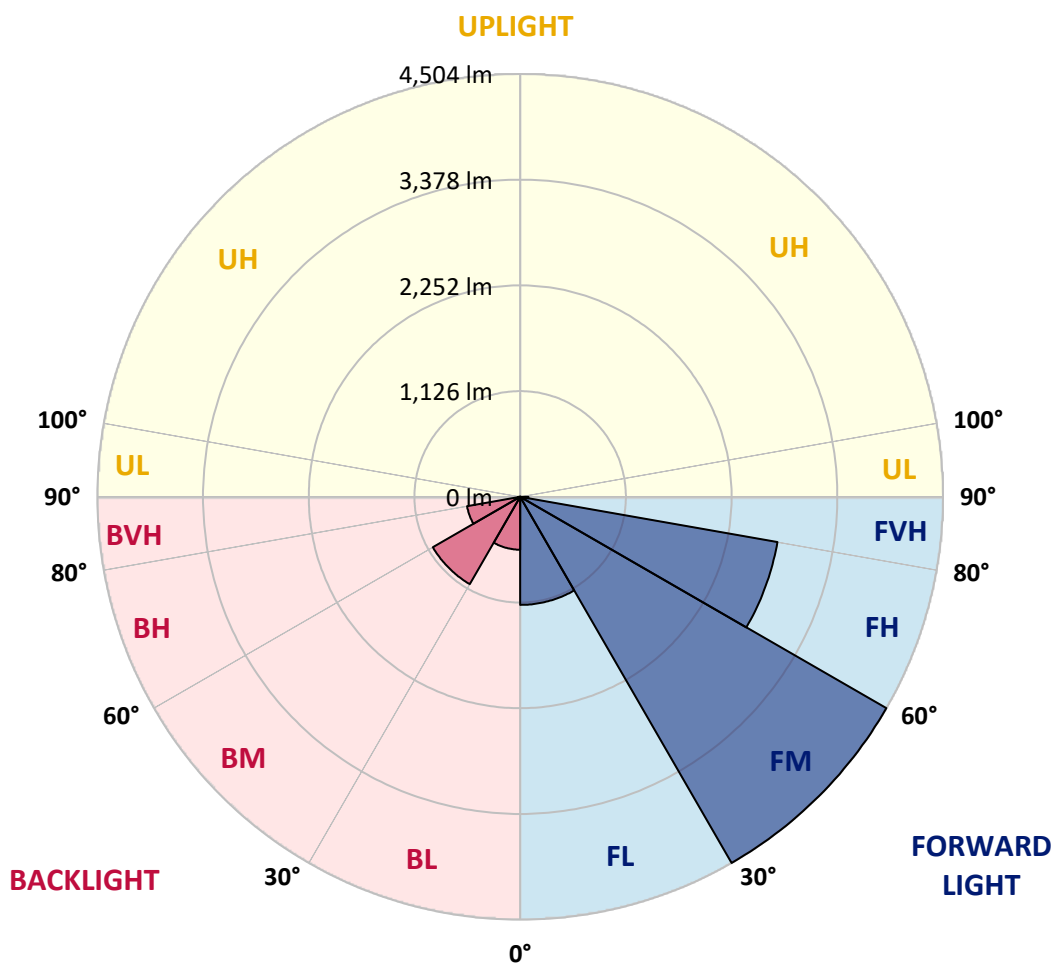
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1151.4	10.7			
FM (30°-60°)	4504.3	41.9			
FH (60°-80°)	2782.9	25.9			G2/5000
FVH (80°-90°)	87.7	0.8			G1/100
BL (0°-30°)	563.4	5.2	B2/1000		
BM (30°-60°)	1073.1	10.0	B2/2500		
BH (60°-80°)	574.5	5.3	B2/1000		G2/1000
BVH (80°-90°)	23.6	0.2			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°	1972.4	1972.4	1972.4	1972.4	1972.4	1972.4	1972.4	1972.4	1972.4	1972.4	1972.4
2.5°	2150.7	2136.6	2125.1	2118.6	2100.7	2085.3	2054.5	2022.5	2000.7	1999.4	1978.9
5°	2240.5	2239.2	2213.5	2208.4	2184.0	2176.4	2145.6	2099.4	2045.5	2039.1	1984.0
7.5°	2358.5	2344.4	2316.1	2304.6	2276.4	2255.9	2214.8	2171.2	2117.4	2110.9	2014.8
10°	2472.6	2464.9	2448.2	2449.5	2409.8	2371.3	2309.7	2235.3	2184.0	2176.4	2058.4
12.5°	2604.7	2580.3	2552.1	2536.7	2497.0	2472.6	2413.6	2316.1	2235.3	2227.6	2109.7
15°	2695.8	2682.9	2657.3	2647.0	2608.5	2568.8	2500.8	2425.1	2303.3	2295.6	2162.2
17.5°	2793.2	2786.8	2757.3	2750.9	2713.7	2666.3	2613.7	2514.9	2408.5	2395.7	2225.1
20°	2858.6	2847.1	2843.2	2842.0	2831.7	2802.2	2735.5	2658.6	2540.6	2517.5	2305.9
22.5°	2945.8	2934.3	2939.4	2944.5	2958.7	2945.8	2902.2	2811.2	2694.5	2673.9	2432.8
25°	2954.8	2947.1	2981.7	3053.6	3081.8	3095.9	3062.5	2992.0	2879.1	2852.2	2584.2
27.5°	2979.2	2967.6	3004.8	3080.5	3207.5	3229.3	3235.7	3202.3	3107.4	3092.0	2789.4
30°	2935.6	2927.9	2985.6	3115.1	3257.5	3380.6	3428.0	3474.2	3430.6	3403.7	3075.4
32.5°	2829.1	2834.3	2909.9	3081.8	3344.7	3534.5	3657.6	3820.5	3898.7	3893.6	3581.9
35°	2673.9	2671.4	2798.3	3040.7	3352.4	3679.4	3909.0	4239.8	4459.1	4443.8	4114.2
37.5°	2541.9	2535.4	2679.1	2936.9	3358.8	3794.8	4203.9	4697.7	4976.0	4960.6	4548.9
40°	2380.3	2390.5	2518.8	2816.3	3304.9	3880.8	4460.4	5142.7	5427.4	5427.4	4999.1
42.5°	2217.4	2226.4	2353.3	2648.3	3226.7	3943.6	4701.5	5586.4	5876.3	5882.7	5308.1
45°	2075.0	2078.9	2194.3	2459.8	3085.6	3953.9	4923.4	6031.5	6296.9	6280.3	5660.8
47.5°	1825.0	1867.3	2048.1	2290.5	2893.3	3909.0	5110.6	6427.7	6658.6	6624.0	5996.8
50°	1454.3	1454.3	1704.4	2128.9	2672.7	3789.7	5258.1	6789.4	7002.3	6970.2	6290.5
52.5°	1336.3	1338.9	1415.8	1901.9	2449.5	3584.5	5342.8	7148.5	7339.6	7317.8	6568.8
55°	1273.5	1277.3	1313.2	1541.5	2246.9	3270.3	5345.3	7426.8	7625.6	7576.8	6803.5
57.5°	1178.6	1172.2	1247.8	1373.5	2009.6	2865.0	5219.7	7642.2	7847.4	7810.2	6995.9
60°	1111.9	1101.6	1152.9	1265.8	1754.4	2445.7	4884.9	7798.7	8037.2	8059.0	7184.4
62.5°	1033.7	1029.8	1078.6	1185.0	1565.9	2171.2	4382.2	7616.6	8177.0	8142.4	7351.1
65°	955.4	947.7	993.9	1077.3	1383.8	1946.8	3875.6	7347.3	8069.3	8100.1	7384.5
67.5°	852.8	851.6	895.2	956.7	1185.0	1695.4	3142.0	6993.3	7735.9	7714.1	7081.8
70°	728.4	728.4	772.0	825.9	990.1	1446.6	2412.3	6386.7	7222.9	7349.8	6563.7
72.5°	588.7	591.2	634.8	696.4	816.9	1178.6	1778.8	5554.4	6777.9	6573.9	5832.7
75°	314.2	282.1	497.6	560.4	659.2	940.1	1217.1	3611.4	5780.1	5639.0	4838.8
77.5°	75.7	79.5	156.5	291.1	351.4	520.7	598.9	1672.3	3726.9	3951.3	3451.1
80°	50.0	55.1	84.6	206.5	234.7	277.0	237.3	728.4	1445.3	1540.2	2003.2
82.5°	25.6	28.2	52.6	82.1	83.4	71.8	89.8	366.8	764.4	828.5	963.1
85°	9.0	14.1	26.9	35.9	33.3	26.9	21.8	91.1	180.8	201.3	209.0
87.5°	0.0	0.0	3.8	3.8	2.6	2.6	3.8	3.8	5.1	3.8	3.8
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°	1972.4	1972.4	1972.4	1972.4	1972.4	1972.4	1972.4	1972.4	1972.4	1972.4	1972.4
2.5°	1962.2	1948.1	1926.3	1903.2	1878.8	1858.3	1846.8	1853.2	1860.9	1836.5	1827.5
5°	1958.3	1934.0	1892.9	1844.2	1807.0	1769.8	1726.2	1715.9	1705.7	1692.9	1678.8
7.5°	1976.3	1940.4	1857.0	1812.1	1733.9	1664.6	1626.2	1598.0	1572.3	1549.2	1535.1
10°	2009.6	1942.9	1849.3	1758.3	1672.3	1587.7	1504.3	1487.7	1482.5	1449.2	1424.8
12.5°	2031.4	1949.4	1822.4	1712.1	1589.0	1497.9	1414.6	1367.1	1363.3	1347.9	1331.2
15°	2066.1	1975.0	1804.4	1654.4	1504.3	1408.2	1331.2	1269.6	1238.9	1237.6	1224.8
17.5°	2128.9	2004.5	1776.2	1595.4	1436.4	1328.6	1218.3	1195.3	1144.0	1114.5	1106.8
20°	2193.0	2048.1	1768.5	1536.4	1347.9	1214.5	1129.9	1065.7	1024.7	993.9	974.7
22.5°	2276.4	2110.9	1771.1	1501.8	1276.1	1128.6	1018.3	923.4	847.7	810.5	792.6
25°	2396.9	2184.0	1790.3	1449.2	1191.4	1036.2	875.9	750.2	643.8	616.9	604.0
27.5°	2550.8	2286.6	1817.3	1395.3	1113.2	911.8	704.1	563.0	474.5	454.0	441.2
30°	2786.8	2440.5	1821.1	1362.0	1042.6	750.2	527.1	416.8	347.5	325.7	328.3
32.5°	3230.5	2770.1	1872.4	1292.7	917.0	575.8	387.3	303.9	251.4	243.7	256.5
35°	3746.1	3158.7	1971.2	1256.8	773.3	416.8	277.0	223.1	189.8	200.1	205.2
37.5°	4078.3	3501.1	2128.9	1174.7	605.3	306.5	193.7	174.4	168.0	174.4	186.0
40°	4465.6	3779.4	2263.6	1091.4	429.6	210.3	155.2	159.0	151.3	150.0	155.2
42.5°	4779.8	4065.4	2407.2	954.2	298.8	156.5	142.4	144.9	139.8	133.4	133.4
45°	5078.6	4312.9	2405.9	769.5	197.5	138.5	130.8	135.9	134.7	125.7	124.4
47.5°	5340.2	4563.0	2407.2	559.2	150.0	127.0	121.8	127.0	127.0	119.3	118.0
50°	5664.7	4770.8	2368.7	357.8	137.2	118.0	116.7	115.4	120.6	110.3	107.7
52.5°	5863.4	4922.1	2195.6	241.1	127.0	111.6	109.0	106.4	109.0	100.0	100.0
55°	6081.5	5110.6	1969.9	191.1	120.6	103.9	102.6	100.0	100.0	89.8	91.1
57.5°	6318.7	5264.5	1665.9	168.0	115.4	98.8	96.2	92.3	87.2	79.5	78.2
60°	6490.6	5296.6	1363.3	152.6	111.6	96.2	85.9	80.8	71.8	66.7	65.4
62.5°	6548.3	5313.3	1105.5	137.2	105.2	88.5	76.9	68.0	57.7	53.9	53.9
65°	6500.8	5120.9	828.5	124.4	97.5	82.1	68.0	55.1	44.9	41.0	39.8
67.5°	6195.6	4766.9	602.8	111.6	85.9	74.4	59.0	44.9	35.9	32.1	32.1
70°	5640.3	4350.1	407.8	93.6	74.4	65.4	55.1	35.9	29.5	25.6	24.4
72.5°	5035.0	3688.4	260.3	75.7	57.7	51.3	39.8	30.8	24.4	19.2	19.2
75°	3982.1	2897.1	180.8	55.1	41.0	38.5	30.8	25.6	20.5	15.4	15.4
77.5°	2771.4	1882.7	142.4	42.3	28.2	25.6	23.1	19.2	16.7	12.8	11.5
80°	1606.9	1132.4	85.9	28.2	19.2	16.7	15.4	15.4	12.8	9.0	9.0
82.5°	797.7	471.9	37.2	18.0	12.8	11.5	10.3	9.0	9.0	6.4	6.4
85°	156.5	80.8	14.1	9.0	6.4	6.4	5.1	5.1	3.8	2.6	2.6
87.5°	5.1	3.8	3.8	3.8	2.6	2.6	1.3	0.0	0.0	0.0	0.0
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)