

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: P509316

Luminaire Tested: **VERD-CA2-70-740-U-T2-HSS**

Issue Date: 3/4/2021

Test Information

Test Method: LM-79-08
Report Number: P509316
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-CA2-70-740-U-T2-HSS
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 980mA LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9568 lumens
Efficiency: N/A
Efficacy: 130.0 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

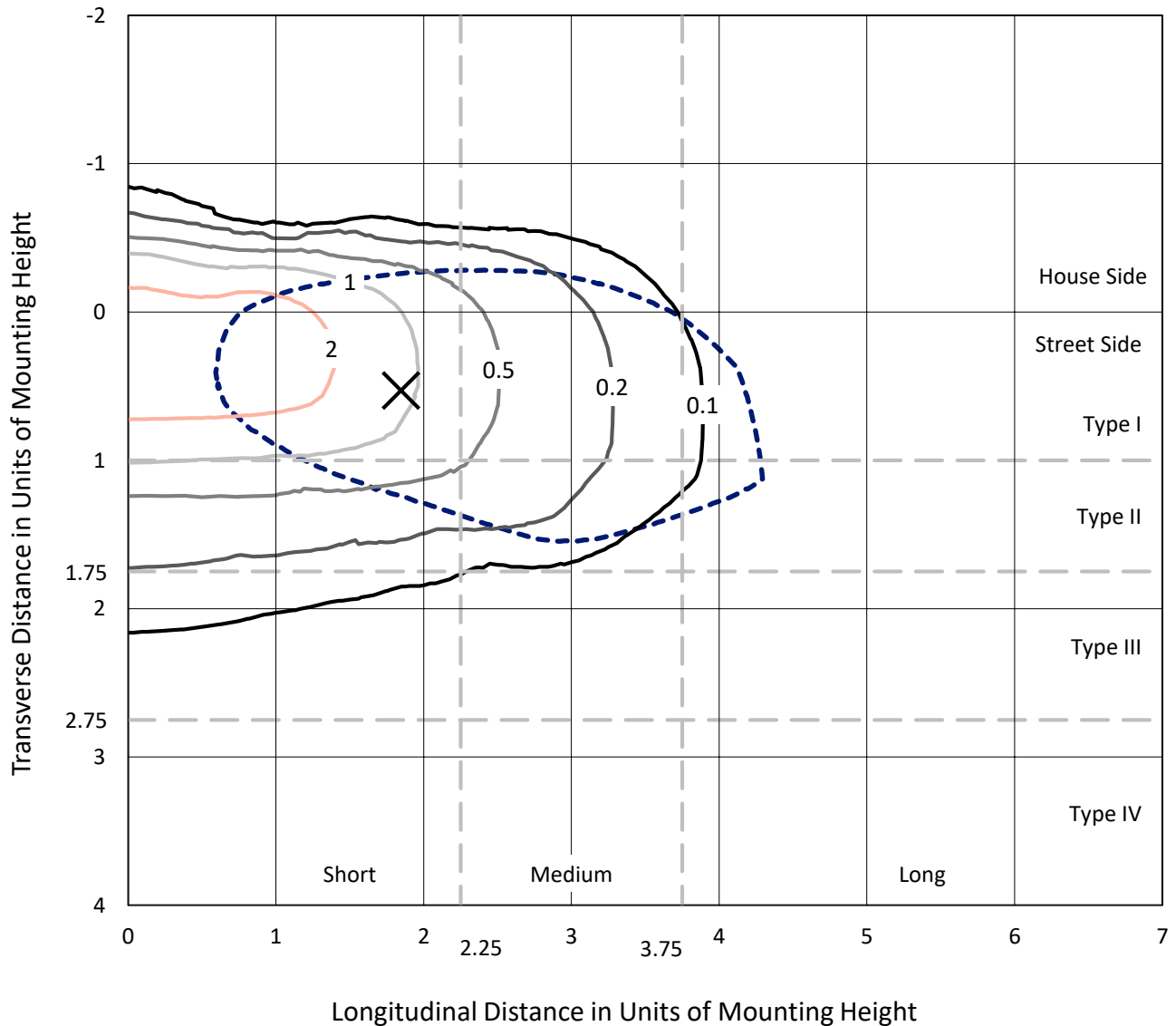
Input Watts (W): 73.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

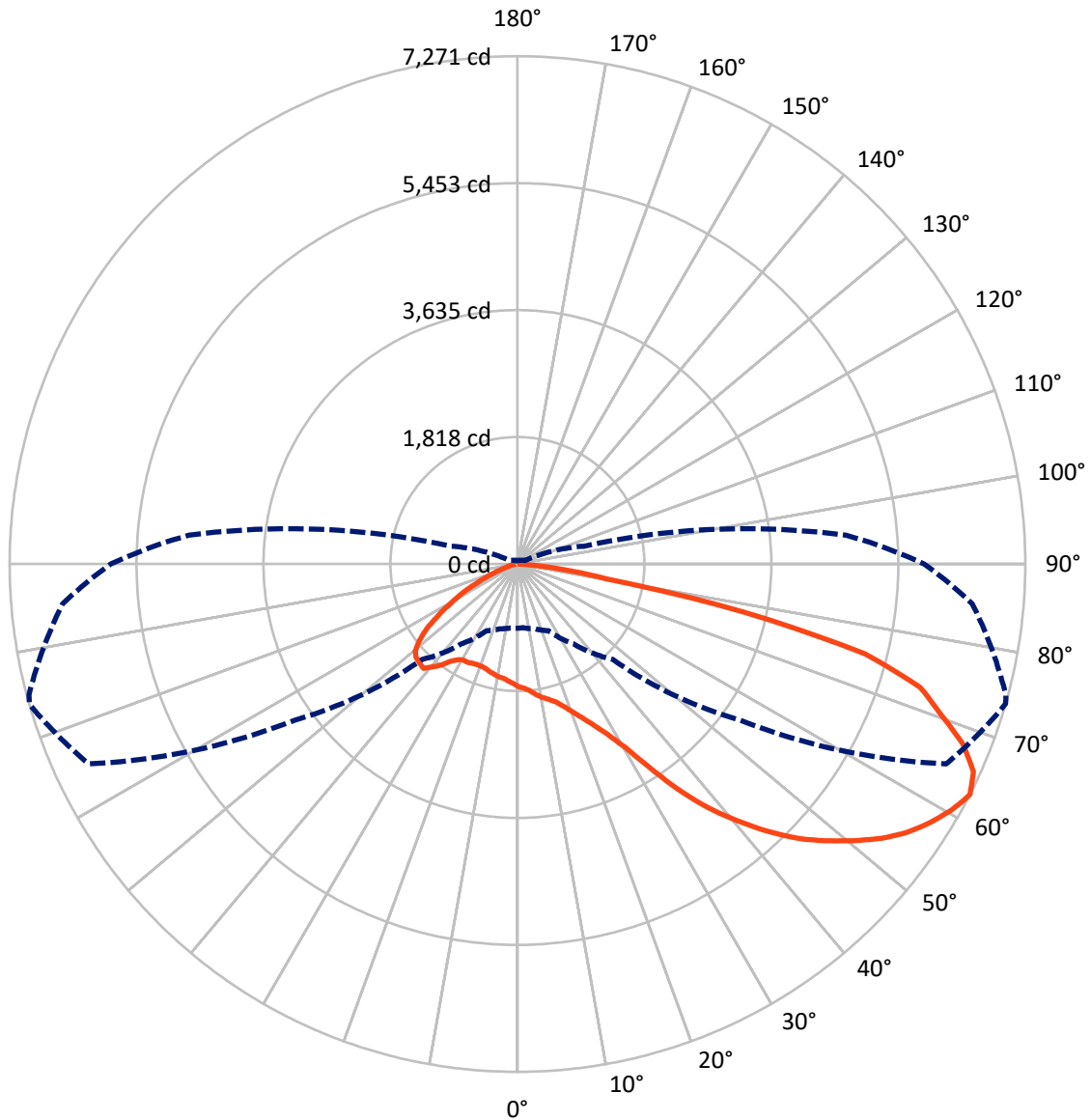
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 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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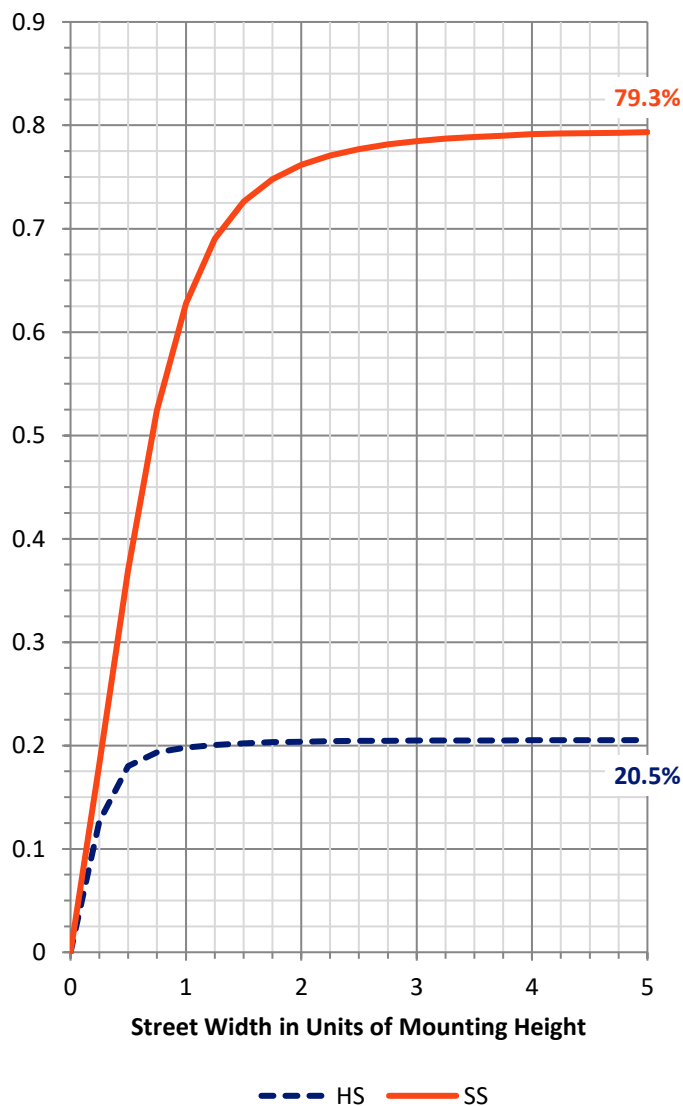
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1986.8	0.0	1986.8
	% Fixture	20.8	0.0	20.8
Street Side	Lumens	7581.2	0.0	7581.2
	% Fixture	79.2	0.0	79.2
Total	Lumens	9568.0	0.0	9568.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.2	1.7
10°-20°	505.0	5.3
20°-30°	852.6	8.9
30°-40°	1268.1	13.3
40°-50°	1716.4	17.9
50°-60°	1974.6	20.6
60°-70°	1906.0	19.9
70°-80°	1079.1	11.3
80°-90°	99.0	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°	9568.0	100.0
0°-180°	9568.0	100.0

Coefficient of Utilization



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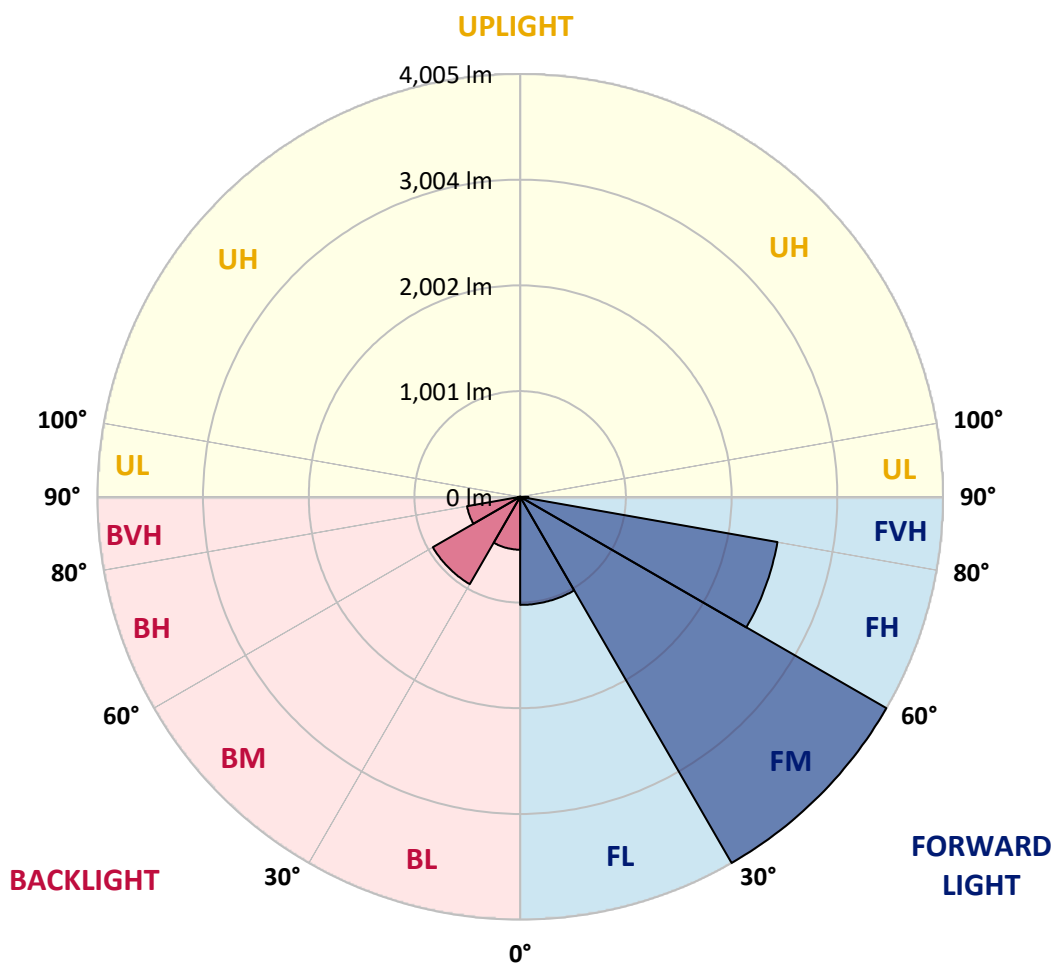
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1023.8	10.7			
FM (30°-60°)	4005.0	41.9			
FH (60°-80°)	2474.4	25.9			G2/5000
FVH (80°-90°)	78.0	0.8			G1/100
BL (0°-30°)	501.0	5.2	B2/1000		
BM (30°-60°)	954.1	10.0	B1/1000		
BH (60°-80°)	510.8	5.3	B2/1000		G2/1000
BVH (80°-90°)	21.0	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°	1753.8	1753.8	1753.8	1753.8	1753.8	1753.8	1753.8	1753.8	1753.8	1753.8	1753.8
2.5°	1912.3	1899.7	1889.5	1883.8	1867.8	1854.1	1826.7	1798.2	1778.9	1777.7	1759.5
5°	1992.1	1990.9	1968.1	1963.6	1941.9	1935.1	1907.7	1866.7	1818.8	1813.1	1764.0
7.5°	2097.0	2084.5	2059.4	2049.1	2024.0	2005.8	1969.3	1930.5	1882.6	1876.9	1791.4
10°	2198.5	2191.6	2176.8	2178.0	2142.6	2108.4	2053.7	1987.5	1941.9	1935.1	1830.2
12.5°	2315.9	2294.3	2269.2	2255.5	2220.1	2198.5	2146.0	2059.4	1987.5	1980.7	1875.8
15°	2396.9	2385.5	2362.7	2353.6	2319.4	2284.0	2223.6	2156.3	2048.0	2041.1	1922.5
17.5°	2483.6	2477.9	2451.6	2445.9	2412.9	2370.7	2323.9	2236.1	2141.5	2130.1	1978.4
20°	2541.7	2531.4	2528.0	2526.9	2517.8	2491.5	2432.2	2363.8	2258.9	2238.4	2050.2
22.5°	2619.2	2609.0	2613.5	2618.1	2630.7	2619.2	2580.5	2499.5	2395.8	2377.5	2163.1
25°	2627.2	2620.4	2651.2	2715.0	2740.1	2752.7	2723.0	2660.3	2560.0	2536.0	2297.7
27.5°	2648.9	2638.6	2671.7	2739.0	2851.9	2871.3	2877.0	2847.3	2762.9	2749.2	2480.1
30°	2610.1	2603.3	2654.6	2769.8	2896.3	3005.8	3048.0	3089.0	3050.3	3026.3	2734.4
32.5°	2515.5	2520.0	2587.3	2740.1	2973.9	3142.6	3252.1	3396.9	3466.5	3461.9	3184.8
35°	2377.5	2375.2	2488.1	2703.6	2980.7	3271.5	3475.6	3769.8	3964.8	3951.1	3658.1
37.5°	2260.1	2254.4	2382.1	2611.3	2986.4	3374.1	3737.9	4176.9	4424.3	4410.6	4044.6
40°	2116.4	2125.5	2239.5	2504.1	2938.5	3450.5	3965.9	4572.6	4825.7	4825.7	4444.9
42.5°	1971.6	1979.5	2092.4	2354.7	2869.0	3506.4	4180.3	4967.1	5224.8	5230.5	4719.7
45°	1845.0	1848.4	1951.0	2187.1	2743.5	3515.5	4377.6	5362.8	5598.8	5584.0	5033.2
47.5°	1622.6	1660.3	1821.0	2036.6	2572.5	3475.6	4544.1	5715.1	5920.4	5889.6	5332.0
50°	1293.1	1293.1	1515.4	1892.9	2376.4	3369.6	4675.2	6036.7	6226.0	6197.5	5593.1
52.5°	1188.2	1190.5	1258.9	1691.1	2178.0	3187.1	4750.5	6356.0	6525.9	6506.5	5840.6
55°	1132.3	1135.7	1167.7	1370.6	1997.8	2907.7	4752.7	6603.4	6780.2	6736.8	6049.2
57.5°	1047.9	1042.2	1109.5	1221.3	1786.8	2547.4	4641.0	6795.0	6977.4	6944.4	6220.3
60°	988.6	979.5	1025.1	1125.5	1559.9	2174.5	4343.4	6934.1	7146.2	7165.6	6387.9
62.5°	919.1	915.7	959.0	1053.6	1392.3	1930.5	3896.4	6772.2	7270.5	7239.7	6536.1
65°	849.5	842.7	883.7	957.8	1230.4	1731.0	3446.0	6532.7	7174.7	7202.1	6565.8
67.5°	758.3	757.2	795.9	850.7	1053.6	1507.5	2793.7	6218.0	6878.2	6858.8	6296.7
70°	647.7	647.7	686.5	734.3	880.3	1286.2	2144.9	5678.6	6422.1	6535.0	5836.0
72.5°	523.4	525.7	564.4	619.2	726.4	1047.9	1581.6	4938.6	6026.4	5845.1	5186.0
75°	279.4	250.9	442.4	498.3	586.1	835.8	1082.1	3211.1	5139.3	5013.9	4302.3
77.5°	67.3	70.7	139.1	258.8	312.4	463.0	532.5	1486.9	3313.7	3513.2	3068.5
80°	44.5	49.0	75.3	183.6	208.7	246.3	211.0	647.7	1285.1	1369.5	1781.1
82.5°	22.8	25.1	46.8	73.0	74.1	63.9	79.8	326.1	679.6	736.6	856.4
85°	8.0	12.5	23.9	31.9	29.6	23.9	19.4	81.0	160.8	179.0	185.9
87.5°	0.0	0.0	3.4	3.4	2.3	2.3	3.4	3.4	4.6	3.4	3.4
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°	1753.8	1753.8	1753.8	1753.8	1753.8	1753.8	1753.8	1753.8	1753.8	1753.8	1753.8
2.5°	1744.6	1732.1	1712.7	1692.2	1670.5	1652.3	1642.0	1647.7	1654.6	1632.9	1624.9
5°	1741.2	1719.6	1683.1	1639.7	1606.7	1573.6	1534.8	1525.7	1516.6	1505.2	1492.6
7.5°	1757.2	1725.3	1651.1	1611.2	1541.7	1480.1	1445.9	1420.8	1398.0	1377.5	1364.9
10°	1786.8	1727.5	1644.3	1563.3	1486.9	1411.7	1337.6	1322.7	1318.2	1288.5	1266.9
12.5°	1806.2	1733.2	1620.4	1522.3	1412.8	1331.9	1257.7	1215.5	1212.1	1198.4	1183.6
15°	1837.0	1756.0	1604.4	1471.0	1337.6	1252.0	1183.6	1128.9	1101.5	1100.4	1089.0
17.5°	1892.9	1782.3	1579.3	1418.5	1277.1	1181.3	1083.3	1062.8	1017.1	990.9	984.1
20°	1949.9	1821.0	1572.5	1366.1	1198.4	1079.9	1004.6	947.6	911.1	883.7	866.6
22.5°	2024.0	1876.9	1574.7	1335.3	1134.6	1003.5	905.4	821.0	753.7	720.7	704.7
25°	2131.2	1941.9	1591.8	1288.5	1059.3	921.4	778.8	667.1	572.4	548.5	537.1
27.5°	2268.0	2033.1	1615.8	1240.6	989.8	810.7	626.0	500.6	421.9	403.7	392.3
30°	2477.9	2170.0	1619.2	1211.0	927.1	667.1	468.7	370.6	309.0	289.6	291.9
32.5°	2872.4	2463.0	1664.8	1149.4	815.3	512.0	344.4	270.2	223.5	216.7	228.1
35°	3330.8	2808.5	1752.6	1117.5	687.6	370.6	246.3	198.4	168.8	177.9	182.4
37.5°	3626.1	3113.0	1892.9	1044.5	538.2	272.5	172.2	155.1	149.4	155.1	165.3
40°	3970.5	3360.4	2012.6	970.4	382.0	187.0	138.0	141.4	134.6	133.4	138.0
42.5°	4249.9	3614.7	2140.3	848.4	265.7	139.1	126.6	128.9	124.3	118.6	118.6
45°	4515.6	3834.8	2139.2	684.2	175.6	123.2	116.3	120.9	119.7	111.7	110.6
47.5°	4748.2	4057.2	2140.3	497.2	133.4	112.9	108.3	112.9	112.9	106.0	104.9
50°	5036.7	4241.9	2106.1	318.1	122.0	104.9	103.8	102.6	107.2	98.1	95.8
52.5°	5213.4	4376.4	1952.2	214.4	112.9	99.2	96.9	94.6	96.9	88.9	88.9
55°	5407.3	4544.1	1751.5	169.9	107.2	92.4	91.2	88.9	88.9	79.8	81.0
57.5°	5618.2	4680.9	1481.2	149.4	102.6	87.8	85.5	82.1	77.5	70.7	69.6
60°	5771.0	4709.4	1212.1	135.7	99.2	85.5	76.4	71.8	63.9	59.3	58.2
62.5°	5822.3	4724.2	982.9	122.0	93.5	78.7	68.4	60.4	51.3	47.9	47.9
65°	5780.1	4553.2	736.6	110.6	86.7	73.0	60.4	49.0	39.9	36.5	35.3
67.5°	5508.7	4238.5	535.9	99.2	76.4	66.1	52.5	39.9	31.9	28.5	28.5
70°	5015.0	3867.9	362.6	83.2	66.1	58.2	49.0	31.9	26.2	22.8	21.7
72.5°	4476.8	3279.5	231.5	67.3	51.3	45.6	35.3	27.4	21.7	17.1	17.1
75°	3540.6	2575.9	160.8	49.0	36.5	34.2	27.4	22.8	18.2	13.7	13.7
77.5°	2464.2	1673.9	126.6	37.6	25.1	22.8	20.5	17.1	14.8	11.4	10.3
80°	1428.8	1006.9	76.4	25.1	17.1	14.8	13.7	13.7	11.4	8.0	8.0
82.5°	709.3	419.6	33.1	16.0	11.4	10.3	9.1	8.0	8.0	5.7	5.7
85°	139.1	71.8	12.5	8.0	5.7	5.7	4.6	4.6	3.4	2.3	2.3
87.5°	4.6	3.4	3.4	3.4	2.3	2.3	1.1	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)