

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: P509436

Luminaire Tested: **VERD-G-CA2-100-722-U-T2-HSS**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P509436
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2102-155-3)
Test Lab: INNOVATION CENTER
Issue Date: 4/6/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-G-CA2-100-722-U-T2-HSS
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 930mA LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11313 lumens
Efficiency: N/A
Efficacy: 110.3 lumens/watt
Luminous Opening: Rectangular (W 0.9' x L: 1.25' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

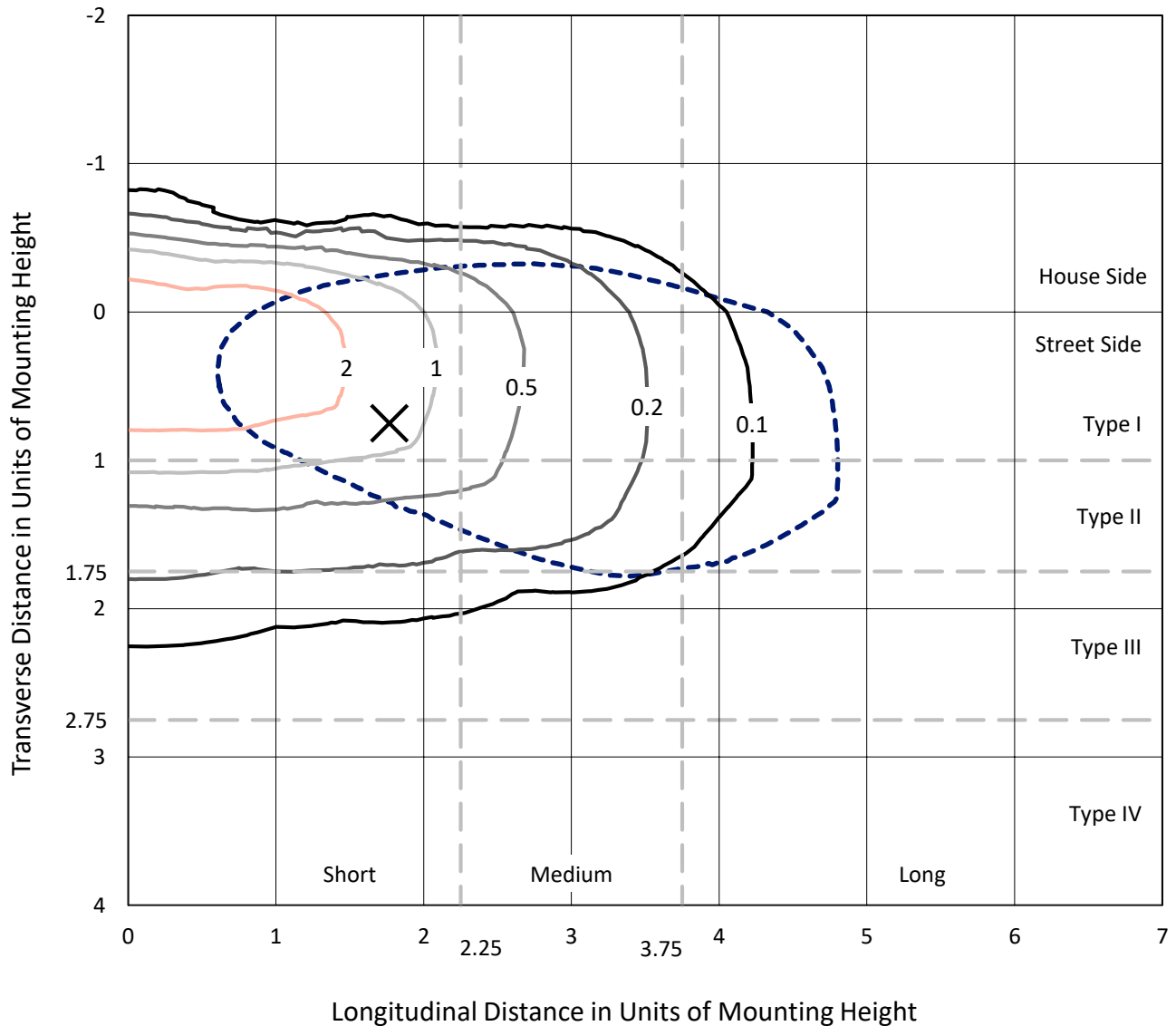
Input Watts (W): 102.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

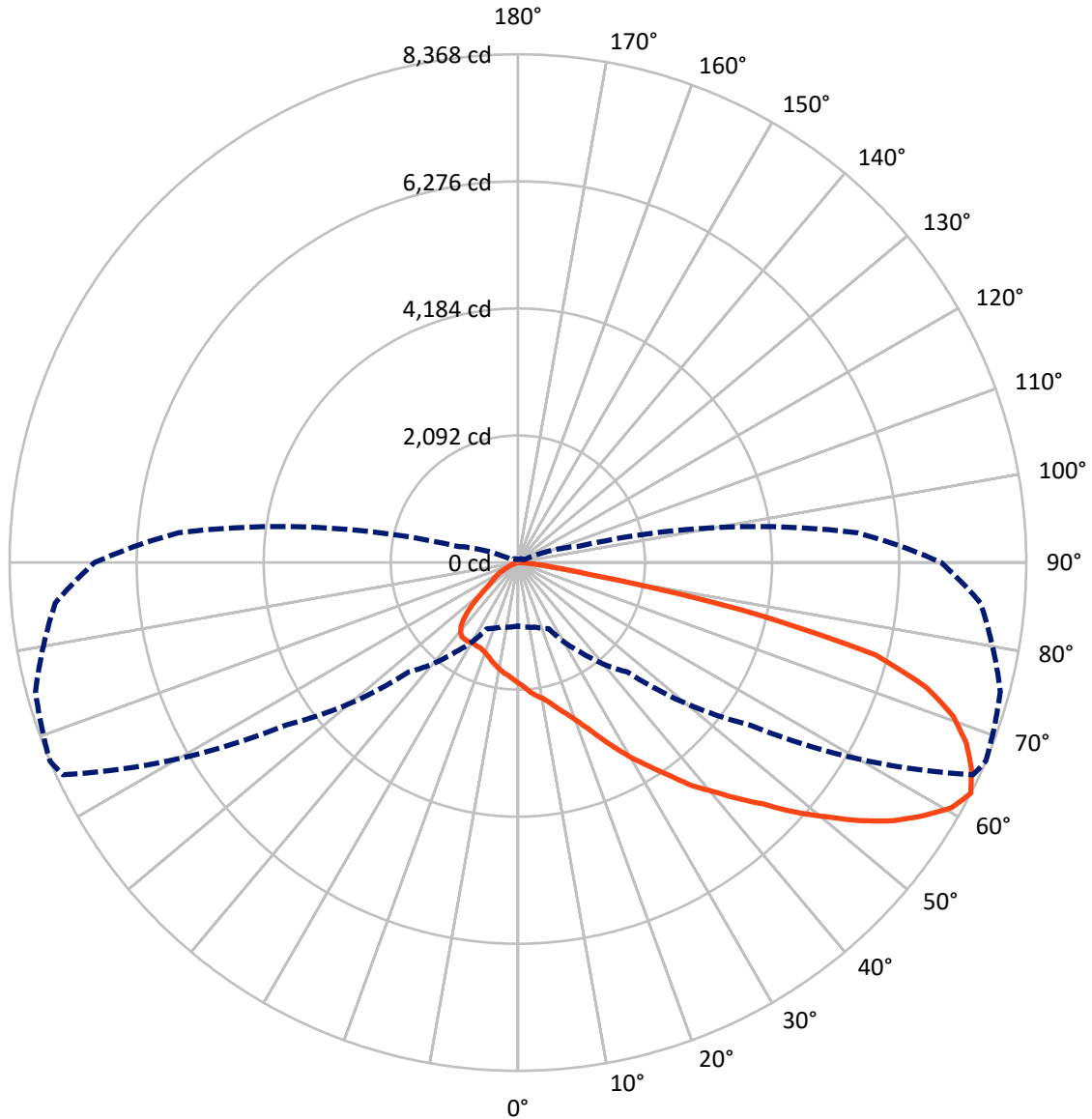
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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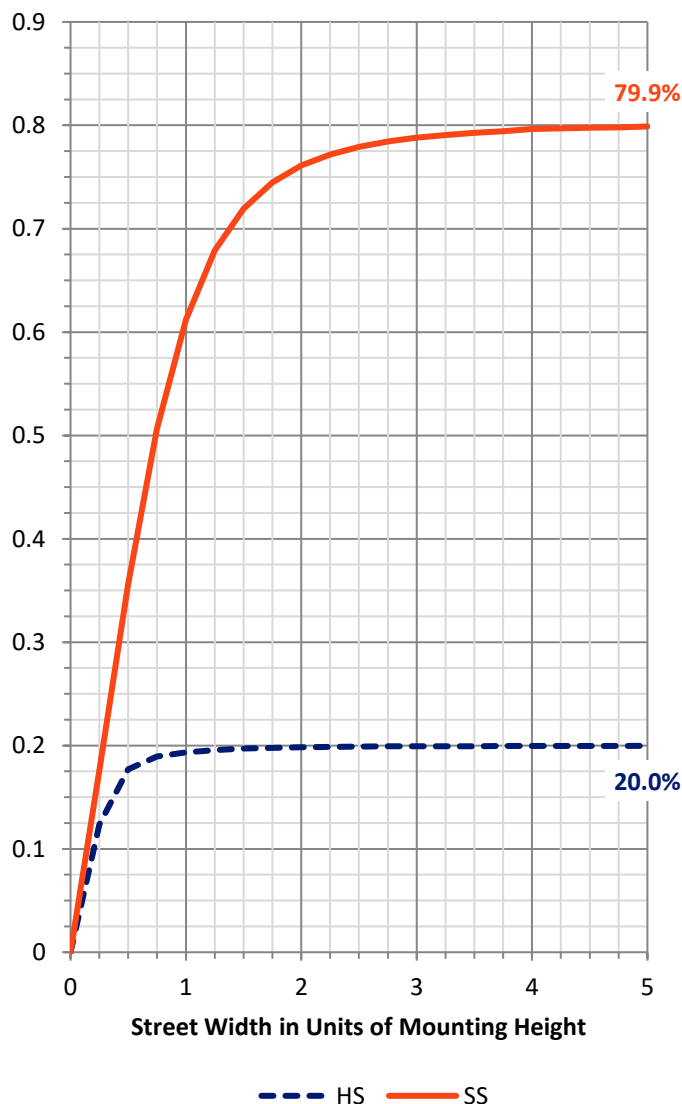
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2286.1	0.0	2286.1
	% Fixture	20.2	0.0	20.2
Street Side	Lumens	9026.9	0.0	9026.9
	% Fixture	79.8	0.0	79.8
Total	Lumens	11313.0	0.0	11313.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	192.1	1.7
10°-20°	579.3	5.1
20°-30°	988.1	8.7
30°-40°	1447.6	12.8
40°-50°	1910.4	16.9
50°-60°	2248.2	19.9
60°-70°	2312.3	20.4
70°-80°	1498.1	13.2
80°-90°	137.1	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°	11313.0	100.0
0°-180°	11313.0	100.0

Coefficient of Utilization



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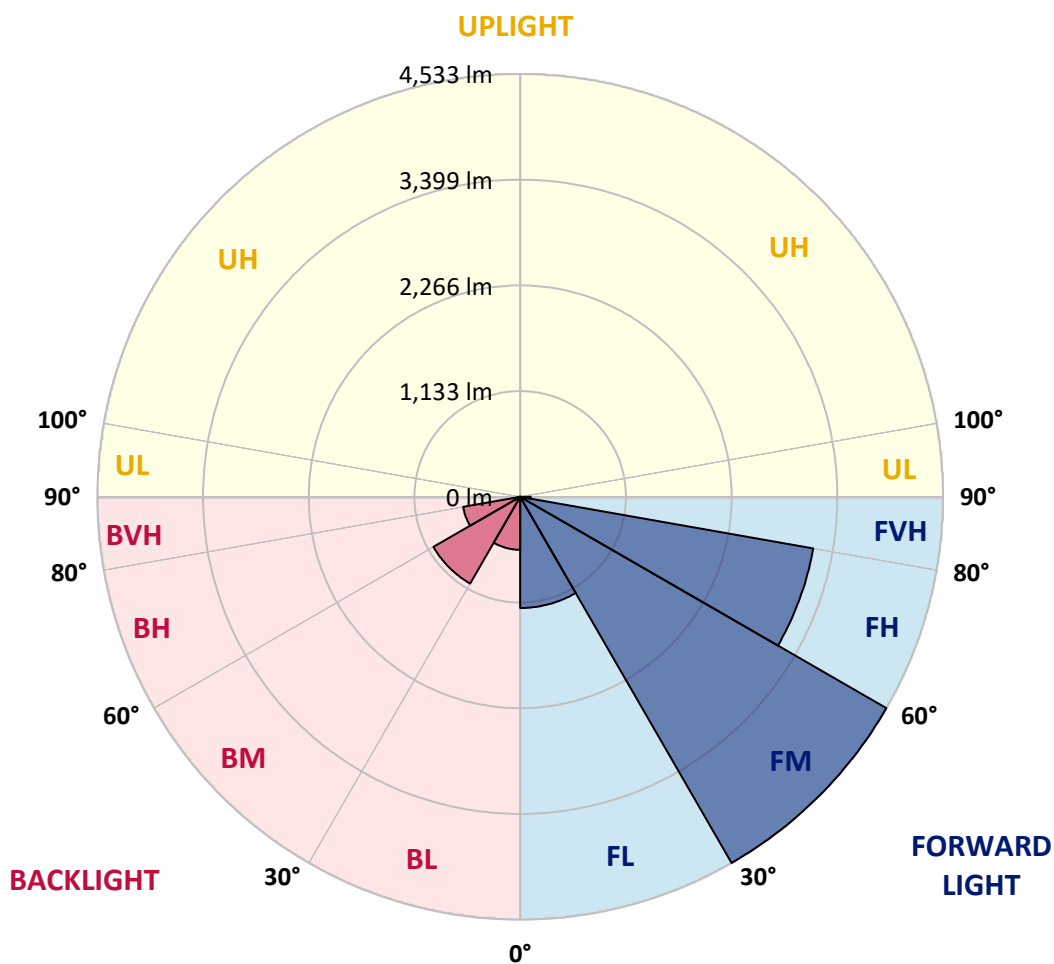
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1191.3	10.5			
FM	(30°-60°)	4532.6	40.1			
FH	(60°-80°)	3189.7	28.2			G2/5000
FVH	(80°-90°)	113.4	1.0			G2/225
BL	(0°-30°)	568.2	5.0	B2/1000		
BM	(30°-60°)	1073.5	9.5	B2/2500		
BH	(60°-80°)	620.7	5.5	B2/1000		G2/1000
BVH	(80°-90°)	23.7	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°	67°	75°	85°
0°	1987.8	1987.8	1987.8	1987.8	1987.8	1987.8	1987.8	1987.8	1987.8	1987.8	1987.8
2.5°	2204.6	2202.1	2178.5	2156.5	2141.8	2141.0	2102.7	2068.5	2053.0	2035.0	1995.1
5°	2318.7	2338.2	2312.1	2279.5	2253.5	2233.9	2200.5	2161.4	2145.1	2102.7	2042.4
7.5°	2484.1	2484.1	2459.7	2431.9	2401.8	2349.6	2292.6	2224.1	2216.0	2168.7	2089.6
10°	2564.0	2583.5	2551.8	2519.2	2485.7	2458.8	2381.4	2297.5	2277.1	2206.2	2108.4
12.5°	2675.6	2675.6	2658.5	2630.8	2592.5	2538.7	2489.0	2404.2	2370.0	2264.1	2141.8
15°	2780.8	2771.8	2757.1	2711.5	2691.9	2658.5	2593.3	2504.5	2498.0	2380.6	2193.2
17.5°	2863.1	2848.4	2834.6	2810.1	2786.5	2773.4	2727.0	2649.6	2622.7	2515.1	2290.1
20°	2905.5	2917.7	2884.3	2883.5	2890.8	2881.0	2850.0	2792.2	2780.8	2652.8	2388.8
22.5°	2953.5	2969.8	2961.7	2969.8	2991.9	3008.2	3006.5	2994.3	2976.4	2837.0	2547.7
25°	2964.1	2953.5	2987.8	3063.6	3119.0	3158.1	3234.7	3219.2	3214.3	3091.3	2763.7
27.5°	2931.5	2941.3	2995.1	3104.3	3246.9	3353.7	3416.5	3493.9	3476.8	3381.4	3023.6
30°	2912.0	2929.1	3000.0	3128.0	3319.5	3512.6	3636.5	3732.7	3747.4	3671.6	3279.5
32.5°	2844.3	2867.2	2940.5	3146.7	3390.4	3683.0	3837.0	4016.3	4009.8	3978.8	3590.9
35°	2740.0	2770.2	2882.6	3122.2	3470.3	3836.2	4040.8	4301.5	4306.4	4319.5	3886.7
37.5°	2656.1	2665.9	2793.8	3049.7	3502.0	3960.1	4230.6	4583.5	4662.6	4643.8	4222.5
40°	2521.6	2550.9	2689.5	2960.9	3498.8	4044.0	4423.8	4913.6	4956.0	5014.7	4573.8
42.5°	2356.2	2387.9	2520.8	2840.3	3453.1	4117.4	4609.6	5250.2	5309.7	5401.8	4895.7
45°	2197.2	2211.1	2335.8	2664.2	3364.3	4175.2	4790.5	5581.9	5673.2	5805.2	5220.0
47.5°	1999.2	2036.7	2176.0	2480.0	3167.9	4196.4	4924.2	5973.1	6141.0	6221.7	5590.1
50°	1537.9	1561.5	1952.7	2317.8	2954.4	4130.4	5097.8	6469.4	6575.4	6659.3	5965.0
52.5°	1355.3	1376.5	1528.1	2130.4	2716.4	3959.3	5203.7	6930.7	7058.7	7040.8	6341.5
55°	1278.7	1289.3	1354.5	1738.4	2499.6	3641.4	5277.9	7434.4	7503.7	7387.9	6714.8
57.5°	1189.9	1202.1	1251.0	1457.2	2255.1	3238.8	5216.0	7837.8	7863.9	7720.5	7047.3
60°	1110.8	1119.0	1192.3	1304.0	1989.4	2848.4	5059.5	8128.0	8200.5	7965.0	7405.9
62.5°	1043.2	1062.8	1101.1	1199.7	1803.6	2546.0	4663.4	8264.9	8367.6	8220.9	7643.8
65°	976.4	985.3	1029.3	1116.5	1603.9	2367.6	4436.8	8084.8	8204.6	8255.1	7790.5
67.5°	885.1	898.1	941.3	1004.1	1338.2	2194.0	3907.9	7792.2	7963.3	8075.0	7703.3
70°	778.3	789.7	833.7	885.9	1117.4	1938.1	3298.3	7493.9	7606.4	7613.7	7313.8
72.5°	654.4	665.0	709.0	761.2	927.5	1613.7	2585.2	6787.3	7039.1	7198.9	6660.1
75°	416.5	462.1	571.3	630.0	763.7	1305.6	1844.3	5418.9	6080.7	6537.1	5763.7
77.5°	67.6	75.8	224.1	319.5	444.2	885.1	1024.4	3002.4	3776.7	5462.9	4653.6
80°	51.3	57.9	81.5	216.8	285.2	550.9	403.4	974.7	1175.2	2554.2	2607.2
82.5°	22.0	26.1	48.9	121.4	134.5	146.7	108.4	436.0	515.9	776.7	904.6
85°	7.3	9.8	22.8	38.3	42.4	32.6	23.6	172.8	212.7	372.5	344.7
87.5°	0.0	0.8	4.9	5.7	4.9	3.3	2.4	1.6	1.6	2.4	2.4
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°	1987.8	1987.8	1987.8	1987.8	1987.8	1987.8	1987.8	1987.8	1987.8	1987.8	1987.8
2.5°	1987.0	1959.3	1956.0	1922.6	1892.4	1858.2	1837.0	1829.7	1839.4	1849.2	1859.0
5°	2011.4	1969.0	1926.7	1857.4	1826.4	1788.9	1739.2	1709.0	1695.2	1707.4	1711.5
7.5°	2029.3	1974.7	1909.5	1815.0	1748.2	1676.4	1629.2	1578.6	1550.9	1555.8	1559.9
10°	2032.6	1972.3	1861.5	1770.2	1662.6	1564.0	1502.0	1478.4	1459.7	1443.4	1445.8
12.5°	2062.8	1973.9	1820.7	1709.9	1596.6	1469.4	1400.2	1370.0	1366.7	1333.3	1330.1
15°	2103.5	2009.8	1799.5	1655.3	1510.2	1390.4	1308.1	1254.3	1255.9	1238.8	1236.3
17.5°	2169.5	2044.8	1784.0	1591.7	1419.7	1309.7	1205.4	1156.5	1141.0	1136.1	1132.0
20°	2243.7	2096.2	1765.3	1535.5	1340.7	1212.7	1096.2	1046.5	1003.3	990.2	991.9
22.5°	2352.9	2163.8	1780.8	1493.1	1252.6	1118.2	1002.4	905.5	831.3	811.7	809.3
25°	2546.0	2297.5	1827.2	1456.4	1198.0	1026.1	870.4	734.3	636.5	615.3	617.0
27.5°	2761.2	2473.5	1891.6	1440.9	1128.8	924.2	709.9	558.3	467.0	442.5	444.2
30°	3016.3	2683.0	1989.4	1397.7	1054.6	775.9	528.9	409.1	338.2	309.7	311.3
32.5°	3261.6	2892.4	2114.9	1391.2	961.7	582.7	382.2	297.5	239.6	218.4	220.9
35°	3532.2	3132.0	2246.9	1358.6	809.3	418.1	268.1	206.2	175.2	168.7	167.9
37.5°	3838.6	3345.6	2344.7	1328.4	605.5	294.2	183.4	158.9	154.8	145.9	145.9
40°	4123.1	3568.1	2418.1	1248.6	423.8	199.7	143.4	144.3	140.2	128.0	125.5
42.5°	4385.5	3797.9	2485.7	1120.6	286.9	136.1	128.8	131.2	132.8	119.0	115.7
45°	4683.0	4081.5	2471.1	928.3	182.6	123.1	115.7	123.1	131.2	117.4	114.1
47.5°	5009.0	4289.3	2502.0	669.9	128.8	116.5	107.6	117.4	123.9	114.9	110.0
50°	5377.3	4561.5	2408.3	389.6	118.2	110.0	103.5	107.6	117.4	112.5	106.8
52.5°	5714.8	4804.4	2280.4	190.7	111.7	103.5	97.0	100.2	110.0	104.3	105.9
55°	5999.2	5057.1	2020.4	136.1	107.6	96.2	93.7	94.5	100.2	92.9	97.8
57.5°	6348.0	5264.9	1756.3	127.1	104.3	91.3	92.1	85.6	87.2	83.1	78.2
60°	6658.5	5461.3	1397.7	117.4	99.4	93.7	83.1	74.2	69.3	66.8	66.0
62.5°	6969.0	5610.4	1030.2	106.8	94.5	84.8	73.3	63.6	55.4	52.2	51.3
65°	7086.4	5690.3	703.3	97.8	88.8	77.4	65.2	51.3	42.4	39.1	36.7
67.5°	6999.2	5440.1	407.5	88.0	85.6	70.9	57.0	41.6	32.6	30.2	28.5
70°	6594.9	5047.3	217.6	79.9	75.0	62.8	50.5	34.2	26.1	22.8	22.0
72.5°	5899.8	4340.7	114.1	66.8	62.8	51.3	39.9	28.5	21.2	17.1	16.3
75°	5009.8	3407.5	79.9	48.9	43.2	39.9	30.2	22.8	17.1	13.0	12.2
77.5°	3954.4	2214.3	60.3	31.8	25.3	26.1	22.0	18.7	13.9	9.8	9.8
80°	2042.4	1150.8	45.6	21.2	14.7	15.5	15.5	13.9	10.6	7.3	7.3
82.5°	810.1	423.8	31.8	12.2	9.0	9.8	9.0	9.0	7.3	4.9	4.9
85°	267.3	92.9	11.4	7.3	5.7	5.7	4.9	4.1	2.4	1.6	1.6
87.5°	2.4	2.4	3.3	4.1	4.1	3.3	2.4	0.8	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)