

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: P509444

Luminaire Tested: **VERD-G-CA2-100-727-U-T2-HSS**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P509444
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-CA2-100-727-U-T2-HSS
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 930mA LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11754 lumens
Efficiency: N/A
Efficacy: 114.6 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

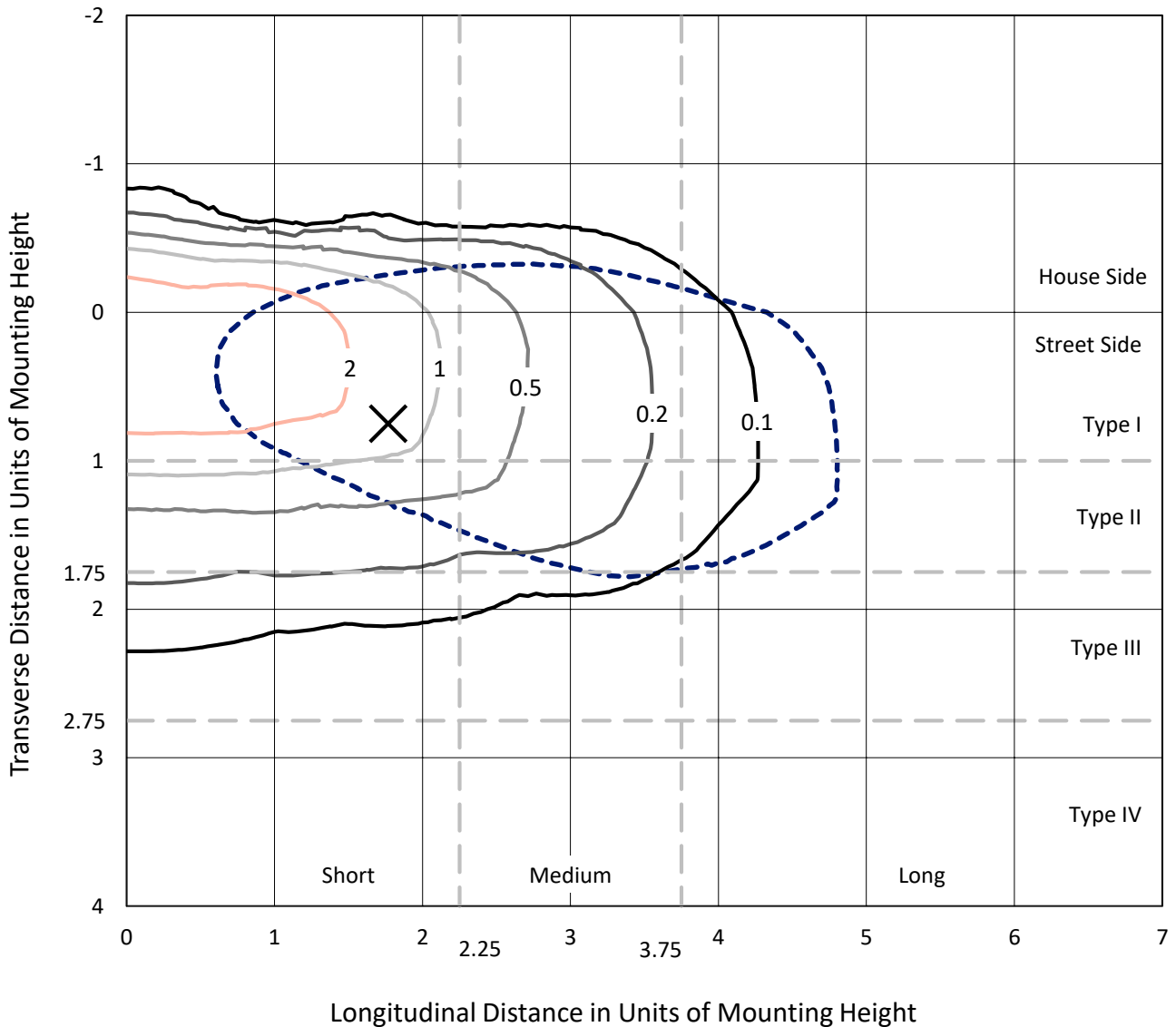
Input Watts (W): 102.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

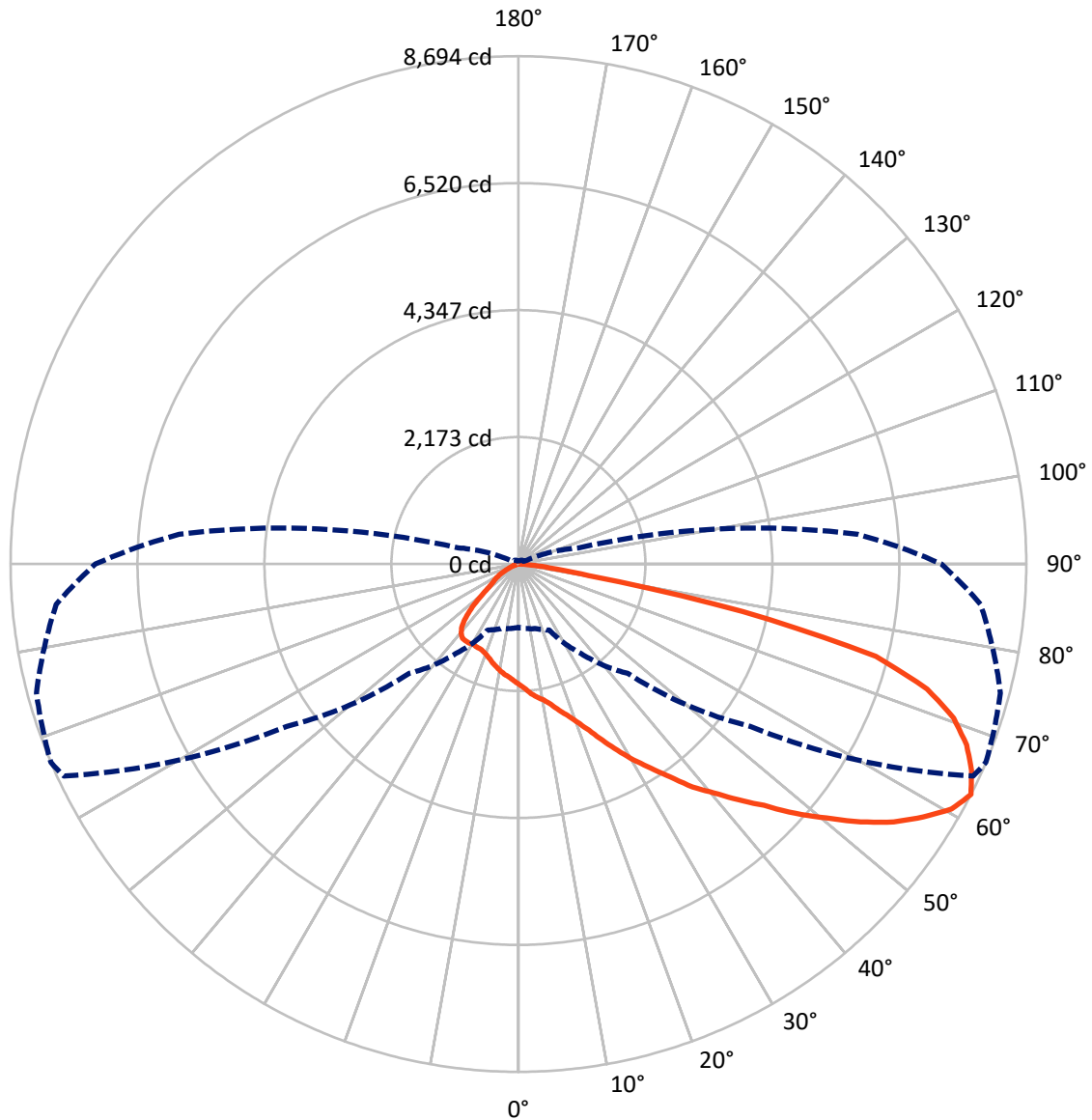
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 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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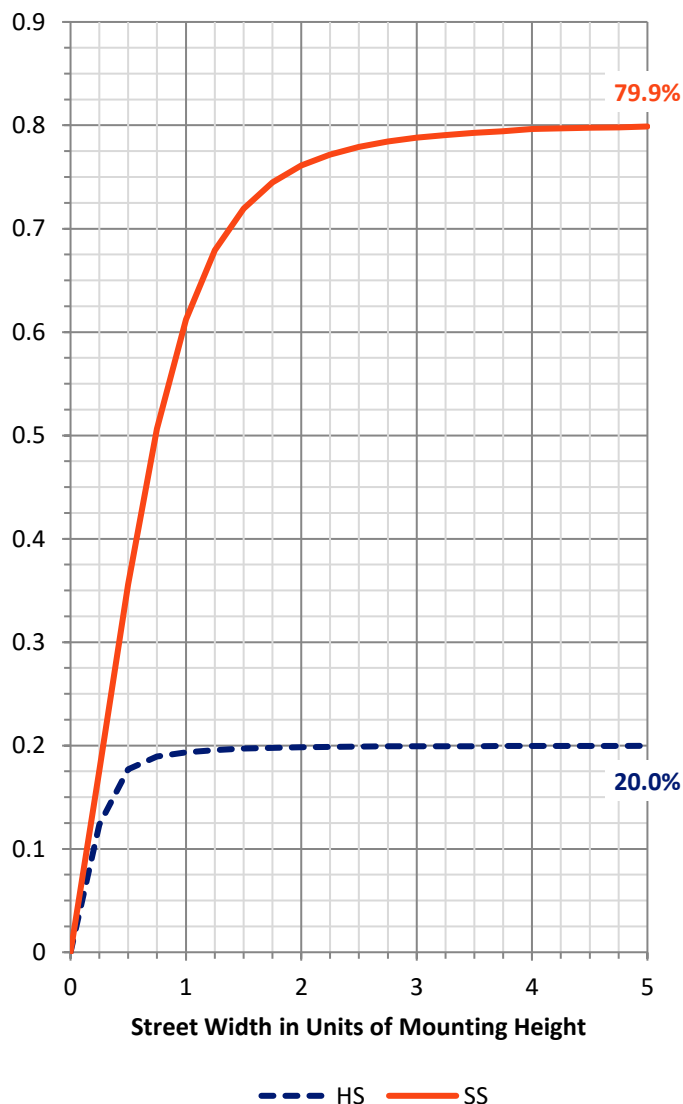
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2375.2	0.0	2375.2
	% Fixture	20.2	0.0	20.2
Street Side	Lumens	9378.8	0.0	9378.8
	% Fixture	79.8	0.0	79.8
Total	Lumens	11754.0	0.0	11754.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	199.6	1.7
10°-20°	601.9	5.1
20°-30°	1026.6	8.7
30°-40°	1504.0	12.8
40°-50°	1984.8	16.9
50°-60°	2335.8	19.9
60°-70°	2402.4	20.4
70°-80°	1556.5	13.2
80°-90°	142.5	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°	11754.0	100.0
0°-180°	11754.0	100.0

Coefficient of Utilization



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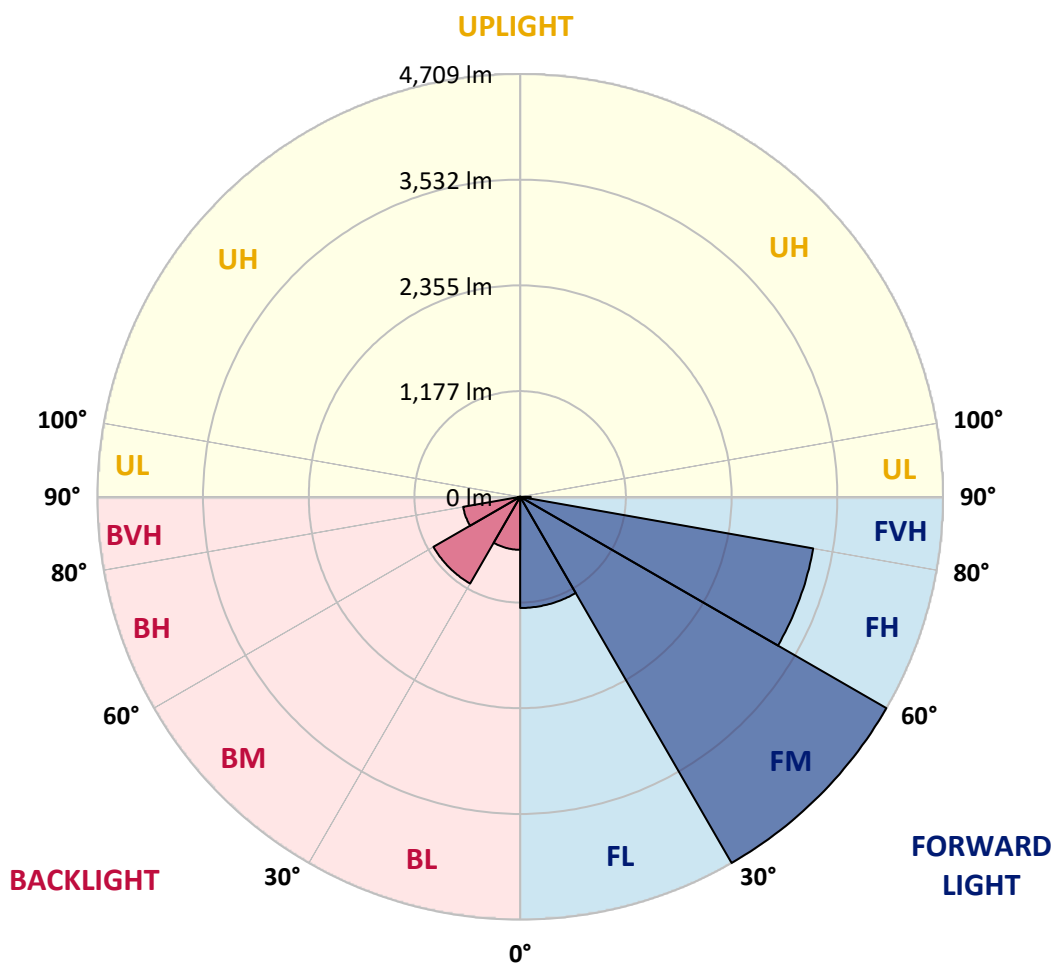
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1237.7	10.5			
FM (30°-60°)	4709.3	40.1			
FH (60°-80°)	3314.0	28.2			G2/5000
FVH (80°-90°)	117.8	1.0			G2/225
BL (0°-30°)	590.3	5.0	B2/1000		
BM (30°-60°)	1115.4	9.5	B2/2500		
BH (60°-80°)	644.9	5.5	B2/1000		G2/1000
BVH (80°-90°)	24.6	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°	67°	75°	85°
0°	2065.3	2065.3	2065.3	2065.3	2065.3	2065.3	2065.3	2065.3	2065.3	2065.3	2065.3
2.5°	2290.5	2288.0	2263.4	2240.5	2225.3	2224.5	2184.7	2149.1	2133.0	2114.4	2072.9
5°	2409.0	2429.4	2402.3	2368.4	2341.3	2321.0	2286.3	2245.6	2228.7	2184.7	2122.0
7.5°	2580.9	2580.9	2555.5	2526.7	2495.4	2441.2	2382.0	2310.8	2302.4	2253.2	2171.1
10°	2663.9	2684.2	2651.2	2617.4	2582.6	2554.7	2474.3	2387.0	2365.9	2292.2	2190.6
12.5°	2779.9	2779.9	2762.2	2733.4	2693.6	2637.7	2586.0	2498.0	2462.4	2352.3	2225.3
15°	2889.2	2879.9	2864.6	2817.2	2796.9	2762.2	2694.4	2602.1	2595.3	2473.4	2278.6
17.5°	2974.7	2959.4	2945.1	2919.6	2895.1	2881.5	2833.3	2752.8	2724.9	2613.1	2379.4
20°	3018.7	3031.4	2996.7	2995.9	3003.5	2993.3	2961.1	2901.0	2889.2	2756.2	2481.9
22.5°	3068.7	3085.6	3077.1	3085.6	3108.5	3125.4	3123.7	3111.0	3092.4	2947.6	2647.0
25°	3079.7	3068.7	3104.2	3183.0	3240.6	3281.2	3360.8	3344.7	3339.6	3211.8	2871.4
27.5°	3045.8	3056.0	3111.9	3225.3	3373.5	3484.4	3549.6	3630.1	3612.3	3513.2	3141.5
30°	3025.5	3043.3	3116.9	3249.9	3448.9	3649.6	3778.3	3878.2	3893.4	3814.7	3407.4
32.5°	2955.2	2978.9	3055.1	3269.4	3522.5	3826.5	3986.6	4172.9	4166.1	4133.9	3730.9
35°	2846.8	2878.2	2995.0	3244.0	3605.5	3985.7	4198.3	4469.2	4474.3	4487.9	4038.2
37.5°	2759.6	2769.8	2902.7	3168.6	3638.6	4114.4	4395.6	4762.2	4844.3	4824.9	4387.1
40°	2619.9	2650.4	2794.3	3076.3	3635.2	4201.7	4596.2	5105.2	5149.2	5210.2	4752.1
42.5°	2448.0	2481.0	2619.0	2951.0	3587.7	4277.9	4789.3	5454.9	5516.7	5612.4	5086.5
45°	2282.9	2297.3	2426.8	2768.1	3495.4	4338.0	4977.3	5799.5	5894.3	6031.5	5423.5
47.5°	2077.1	2116.1	2260.9	2576.7	3291.4	4360.0	5116.2	6205.9	6380.4	6464.2	5808.0
50°	1597.8	1622.4	2028.9	2408.2	3069.5	4291.4	5296.5	6721.6	6831.7	6918.9	6197.5
52.5°	1408.2	1430.2	1587.7	2213.4	2822.3	4113.6	5406.6	7200.9	7333.8	7315.2	6588.7
55°	1328.6	1339.6	1407.3	1806.2	2597.0	3783.4	5483.7	7724.2	7796.2	7675.9	6976.5
57.5°	1236.3	1249.0	1299.8	1514.0	2343.0	3365.0	5419.3	8143.3	8170.4	8021.4	7322.0
60°	1154.1	1162.6	1238.8	1354.8	2067.0	2959.4	5256.7	8444.8	8520.2	8275.4	7694.6
62.5°	1083.9	1104.2	1144.0	1246.4	1873.9	2645.3	4845.2	8587.1	8693.7	8541.3	7941.8
65°	1014.4	1023.7	1069.5	1160.1	1666.4	2459.9	4609.8	8399.9	8524.4	8576.9	8094.2
67.5°	919.6	933.1	978.0	1043.2	1390.4	2279.5	4060.2	8095.9	8273.8	8389.8	8003.6
70°	808.7	820.5	866.2	920.4	1160.9	2013.6	3426.9	7786.0	7902.9	7910.5	7598.9
72.5°	680.0	691.0	736.7	790.9	963.6	1676.6	2685.9	7051.9	7313.5	7479.5	6919.8
75°	432.7	480.1	593.6	654.6	793.4	1356.5	1916.2	5630.1	6317.7	6791.9	5988.3
77.5°	70.3	78.7	232.9	331.9	461.5	919.6	1064.4	3119.5	3923.9	5675.9	4835.0
80°	53.3	60.1	84.7	225.2	296.4	572.4	419.1	1012.7	1221.0	2653.8	2708.8
82.5°	22.9	27.1	50.8	126.2	139.7	152.4	112.6	453.0	536.0	807.0	939.9
85°	7.6	10.2	23.7	39.8	44.0	33.9	24.6	179.5	221.0	387.0	358.2
87.5°	0.0	0.8	5.1	5.9	5.1	3.4	2.5	1.7	1.7	2.5	2.5
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°	2065.3	2065.3	2065.3	2065.3	2065.3	2065.3	2065.3	2065.3	2065.3	2065.3	2065.3
2.5°	2064.4	2035.6	2032.2	1997.5	1966.2	1930.6	1908.6	1901.0	1911.2	1921.3	1931.5
5°	2089.8	2045.8	2001.8	1929.8	1897.6	1858.7	1807.0	1775.7	1761.3	1774.0	1778.2
7.5°	2108.4	2051.7	1984.0	1885.7	1816.3	1741.8	1692.7	1640.2	1611.4	1616.5	1620.7
10°	2111.8	2049.2	1934.0	1839.2	1727.4	1624.9	1560.6	1536.0	1516.6	1499.6	1502.2
12.5°	2143.2	2050.9	1891.7	1776.5	1658.8	1526.7	1454.7	1423.4	1420.0	1385.3	1381.9
15°	2185.5	2088.1	1869.7	1719.8	1569.1	1444.6	1359.1	1303.2	1304.9	1287.1	1284.5
17.5°	2254.1	2124.5	1853.6	1653.7	1475.1	1360.8	1252.4	1201.6	1185.5	1180.4	1176.2
20°	2331.1	2177.9	1834.1	1595.3	1392.9	1260.0	1138.9	1087.2	1042.4	1028.8	1030.5
22.5°	2444.6	2248.2	1850.2	1551.3	1301.5	1161.8	1041.5	940.8	863.7	843.4	840.8
25°	2645.3	2387.0	1898.4	1513.2	1244.7	1066.1	904.3	762.9	661.3	639.3	641.0
27.5°	2868.8	2569.9	1965.3	1497.1	1172.8	960.2	737.5	580.0	485.2	459.8	461.5
30°	3133.9	2787.6	2067.0	1452.2	1095.7	806.1	549.6	425.1	351.4	321.8	323.5
32.5°	3388.8	3005.2	2197.4	1445.4	999.2	605.4	397.1	309.1	248.9	226.9	229.5
35°	3669.9	3254.1	2334.5	1411.6	840.8	434.4	278.6	214.2	182.1	175.3	174.4
37.5°	3988.3	3476.0	2436.1	1380.2	629.1	305.7	190.5	165.1	160.9	151.6	151.6
40°	4283.8	3707.1	2512.4	1297.2	440.3	207.5	149.0	149.9	145.6	132.9	130.4
42.5°	4556.4	3945.9	2582.6	1164.3	298.1	141.4	133.8	136.3	138.0	123.6	120.2
45°	4865.5	4240.6	2567.4	964.5	189.7	127.9	120.2	127.9	136.3	121.9	118.5
47.5°	5204.2	4456.5	2599.6	696.0	133.8	121.1	111.8	121.9	128.7	119.4	114.3
50°	5587.0	4739.3	2502.2	404.8	122.8	114.3	107.5	111.8	121.9	116.9	110.9
52.5°	5937.5	4991.7	2369.3	198.1	116.0	107.5	100.8	104.2	114.3	108.4	110.1
55°	6233.0	5254.2	2099.1	141.4	111.8	99.9	97.4	98.2	104.2	96.5	101.6
57.5°	6595.5	5470.1	1824.8	132.1	108.4	94.8	95.7	88.9	90.6	86.4	81.3
60°	6918.1	5674.2	1452.2	121.9	103.3	97.4	86.4	77.1	72.0	69.4	68.6
62.5°	7240.7	5829.1	1070.3	110.9	98.2	88.1	76.2	66.0	57.6	54.2	53.3
65°	7362.6	5912.1	730.8	101.6	92.3	80.4	67.7	53.3	44.0	40.6	38.1
67.5°	7272.0	5652.2	423.4	91.5	88.9	73.7	59.3	43.2	33.9	31.3	29.6
70°	6852.0	5244.0	226.1	83.0	77.9	65.2	52.5	35.6	27.1	23.7	22.9
72.5°	6129.7	4509.9	118.5	69.4	65.2	53.3	41.5	29.6	22.0	17.8	16.9
75°	5205.1	3540.3	83.0	50.8	44.9	41.5	31.3	23.7	17.8	13.5	12.7
77.5°	4108.5	2300.7	62.7	33.0	26.2	27.1	22.9	19.5	14.4	10.2	10.2
80°	2122.0	1195.6	47.4	22.0	15.2	16.1	16.1	14.4	11.0	7.6	7.6
82.5°	841.7	440.3	33.0	12.7	9.3	10.2	9.3	9.3	7.6	5.1	5.1
85°	277.7	96.5	11.9	7.6	5.9	5.9	5.1	4.2	2.5	1.7	1.7
87.5°	2.5	2.5	3.4	4.2	4.2	3.4	2.5	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)