

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: P509100

Luminaire Tested: **VERD-CA2-110-722-U-T2-HSS**

Issue Date: 3/4/2021

Test Information

Test Method: LM-79-08
Report Number: P509100
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-CA2-110-722-U-T2-HSS
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 1020mA LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11918 lumens
Efficiency: N/A
Efficacy: 104.9 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

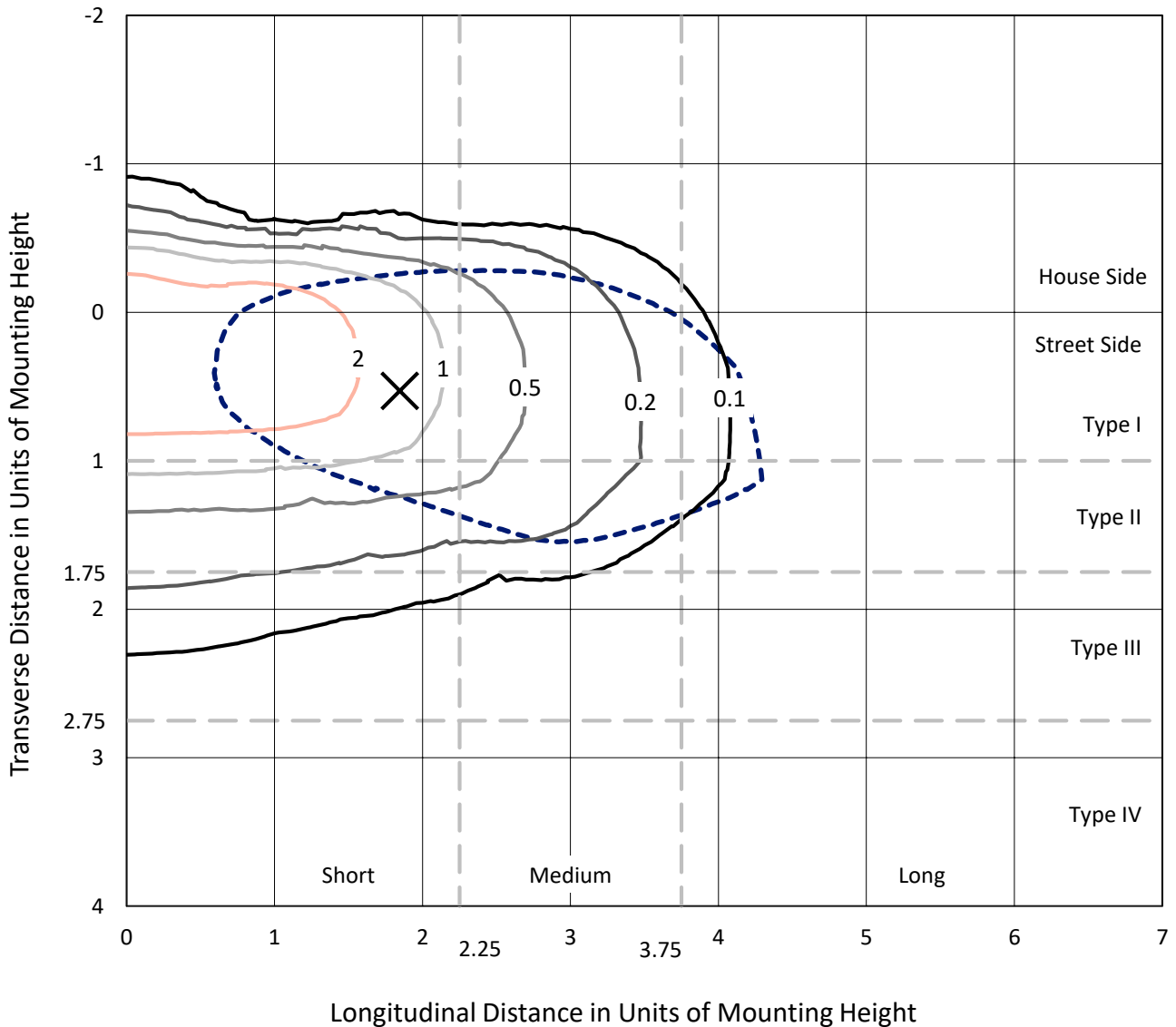
Input Watts (W): 113.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P509100
 CATALOG NUMBER: VERD-CA2-110-722-U-T2-HSS

Iso-Footcandle Lines of Horizontal Illumination

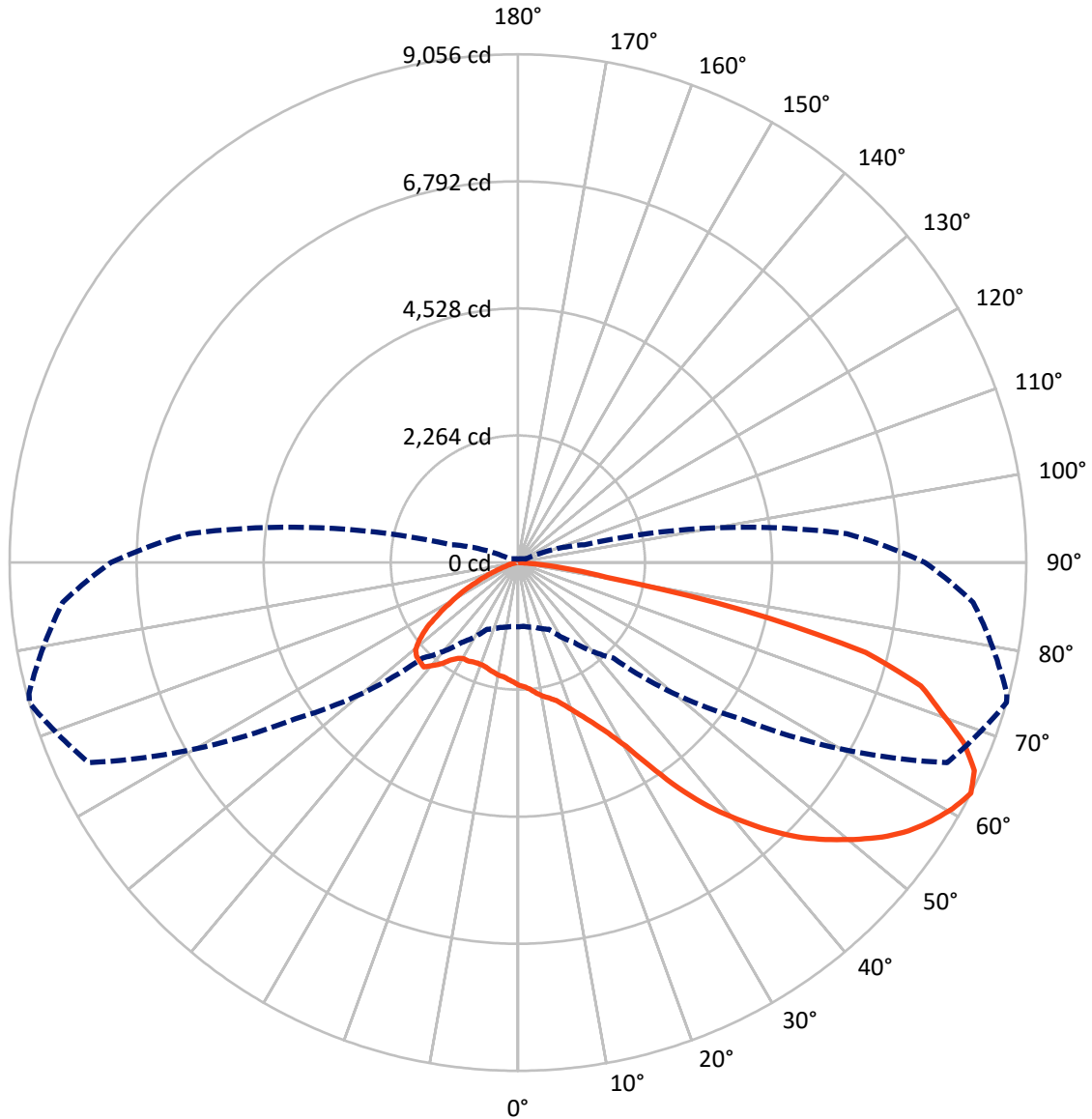
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 fc
 Type II - Short - N/A

REPORT NUMBER: P509100
CATALOG NUMBER: VERD-CA2-110-722-U-T2-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 74-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

REPORT NUMBER: P509100
 CATALOG NUMBER: VERD-CA2-110-722-U-T2-HSS

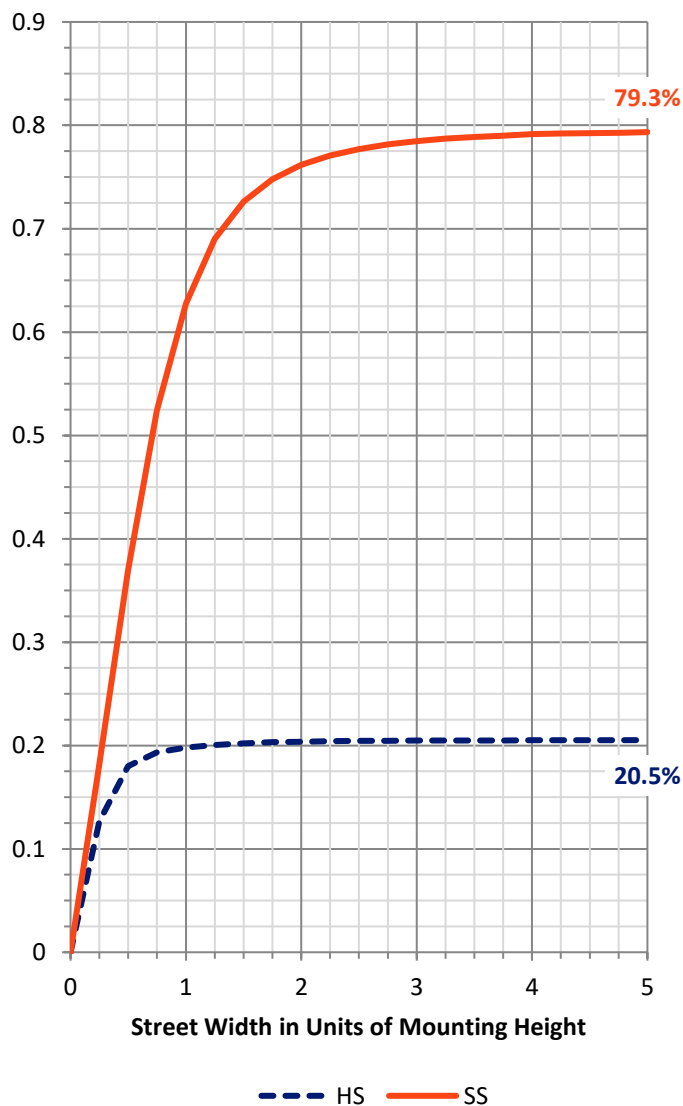
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2474.8	0.0	2474.8
	% Fixture	20.8	0.0	20.8
Street Side	Lumens	9443.2	0.0	9443.2
	% Fixture	79.2	0.0	79.2
Total	Lumens	11918.0	0.0	11918.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	208.2	1.7
10°-20°	629.0	5.3
20°-30°	1062.0	8.9
30°-40°	1579.6	13.3
40°-50°	2137.9	17.9
50°-60°	2459.6	20.6
60°-70°	2374.2	19.9
70°-80°	1344.2	11.3
80°-90°	123.3	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°	11918.0	100.0
0°-180°	11918.0	100.0

Coefficient of Utilization



REPORT NUMBER: P509100

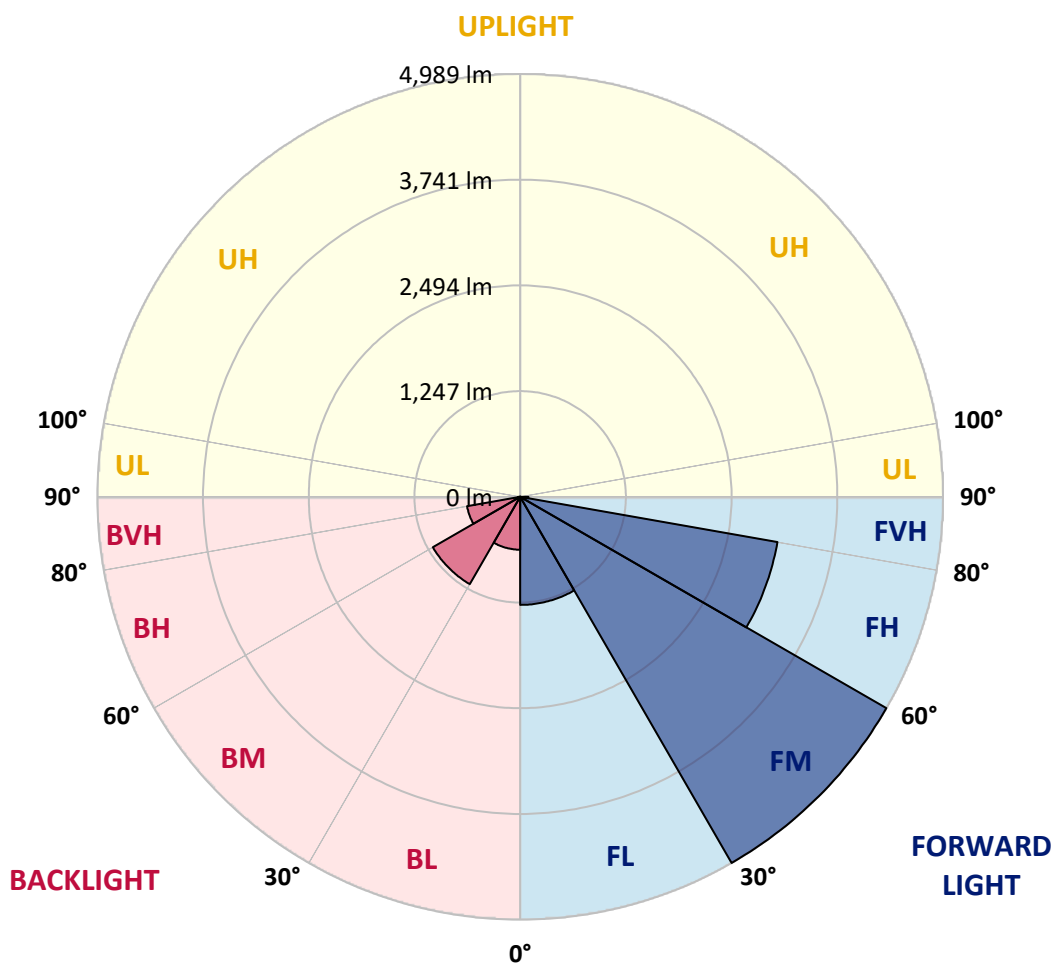
CATALOG NUMBER: VERD-CA2-110-722-U-T2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1275.2	10.7			
FM (30°-60°)	4988.7	41.9			
FH (60°-80°)	3082.1	25.9			G2/5000
FVH (80°-90°)	97.2	0.8			G1/100
BL (0°-30°)	624.0	5.2	B2/1000		
BM (30°-60°)	1188.4	10.0	B2/2500		
BH (60°-80°)	636.2	5.3	B2/1000		G2/1000
BVH (80°-90°)	26.1	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





REPORT NUMBER: P509100

CATALOG NUMBER: VERD-CA2-110-722-U-T2-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	2184.5	2184.5	2184.5	2184.5	2184.5	2184.5	2184.5	2184.5	2184.5	2184.5	2184.5
2.5°	2381.9	2366.3	2353.5	2346.4	2326.5	2309.5	2275.4	2239.9	2215.8	2214.3	2191.6
5°	2481.4	2479.9	2451.5	2445.9	2418.9	2410.3	2376.3	2325.1	2265.5	2258.4	2197.3
7.5°	2612.0	2596.4	2565.2	2552.4	2521.1	2498.4	2453.0	2404.7	2345.0	2337.9	2231.4
10°	2738.4	2729.9	2711.5	2712.9	2668.9	2626.2	2558.1	2475.7	2418.9	2410.3	2279.7
12.5°	2884.7	2857.8	2826.5	2809.5	2765.4	2738.4	2673.1	2565.2	2475.7	2467.2	2336.5
15°	2985.6	2971.4	2943.0	2931.6	2889.0	2845.0	2769.7	2685.9	2551.0	2542.4	2394.7
17.5°	3093.5	3086.4	3053.8	3046.7	3005.5	2952.9	2894.7	2785.3	2667.4	2653.2	2464.3
20°	3166.0	3153.2	3148.9	3147.5	3136.1	3103.5	3029.6	2944.4	2813.7	2788.2	2553.8
22.5°	3262.6	3249.8	3255.5	3261.1	3276.8	3262.6	3214.3	3113.4	2984.2	2961.4	2694.4
25°	3272.5	3264.0	3302.3	3381.9	3413.1	3428.7	3391.8	3313.7	3188.7	3158.9	2862.0
27.5°	3299.5	3286.7	3327.9	3411.7	3552.3	3576.5	3583.6	3546.6	3441.5	3424.5	3089.3
30°	3251.2	3242.7	3306.6	3450.0	3607.7	3744.1	3796.6	3847.7	3799.5	3769.6	3406.0
32.5°	3133.3	3139.0	3222.8	3413.1	3704.3	3914.5	4050.9	4231.2	4317.9	4312.2	3967.1
35°	2961.4	2958.6	3099.2	3367.7	3712.8	4075.0	4329.3	4695.7	4938.6	4921.5	4556.5
37.5°	2815.1	2808.0	2967.1	3252.6	3719.9	4202.8	4655.9	5202.8	5511.0	5493.9	5038.0
40°	2636.2	2647.5	2789.6	3119.1	3660.3	4298.0	4940.0	5695.6	6011.0	6011.0	5536.6
42.5°	2455.8	2465.7	2606.4	2933.0	3573.6	4367.6	5207.0	6187.1	6508.1	6515.2	5878.9
45°	2298.1	2302.4	2430.2	2724.2	3417.4	4379.0	5452.8	6679.9	6974.0	6955.5	6269.5
47.5°	2021.2	2068.0	2268.3	2536.8	3204.3	4329.3	5660.1	7118.8	7374.5	7336.1	6641.6
50°	1610.7	1610.7	1887.7	2357.8	2960.0	4197.2	5823.5	7519.4	7755.2	7719.6	6966.9
52.5°	1480.0	1482.9	1568.1	2106.4	2712.9	3969.9	5917.2	7917.1	8128.7	8104.6	7275.1
55°	1410.4	1414.7	1454.4	1707.3	2488.5	3621.9	5920.1	8225.3	8445.4	8391.5	7535.0
57.5°	1305.3	1298.2	1382.0	1521.2	2225.7	3173.1	5780.9	8463.9	8691.2	8650.0	7748.1
60°	1231.5	1220.1	1276.9	1401.9	1943.0	2708.6	5410.1	8637.2	8901.4	8925.5	7956.8
62.5°	1144.8	1140.5	1194.5	1312.4	1734.3	2404.7	4853.4	8435.5	9056.2	9017.9	8141.5
65°	1058.2	1049.6	1100.8	1193.1	1532.6	2156.1	4292.3	8137.2	8936.9	8971.0	8178.4
67.5°	944.5	943.1	991.4	1059.6	1312.4	1877.7	3479.9	7745.2	8567.6	8543.5	7843.2
70°	806.8	806.8	855.1	914.7	1096.5	1602.2	2671.7	7073.4	7999.5	8140.1	7269.4
72.5°	651.9	654.8	703.1	771.3	904.8	1305.3	1970.0	6151.6	7506.6	7280.8	6459.8
75°	348.0	312.5	551.1	620.7	730.1	1041.1	1347.9	3999.7	6401.6	6245.3	5359.0
77.5°	83.8	88.1	173.3	322.4	389.2	576.7	663.3	1852.1	4127.6	4376.1	3822.2
80°	55.4	61.1	93.7	228.7	259.9	306.8	262.8	806.8	1600.7	1705.8	2218.6
82.5°	28.4	31.2	58.2	90.9	92.3	79.5	99.4	406.2	846.5	917.6	1066.7
85°	9.9	15.6	29.8	39.8	36.9	29.8	24.1	100.8	200.3	223.0	231.5
87.5°	0.0	0.0	4.3	4.3	2.8	2.8	4.3	4.3	5.7	4.3	4.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P509100

CATALOG NUMBER: VERD-CA2-110-722-U-T2-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2184.5	2184.5	2184.5	2184.5	2184.5	2184.5	2184.5	2184.5	2184.5	2184.5	2184.5
2.5°	2173.1	2157.5	2133.4	2107.8	2080.8	2058.1	2045.3	2052.4	2060.9	2034.0	2024.0
5°	2168.9	2141.9	2096.4	2042.5	2001.3	1960.1	1911.8	1900.4	1889.1	1874.9	1859.2
7.5°	2188.8	2149.0	2056.7	2007.0	1920.3	1843.6	1801.0	1769.8	1741.4	1715.8	1700.2
10°	2225.7	2151.8	2048.2	1947.3	1852.1	1758.4	1666.1	1647.6	1641.9	1605.0	1578.0
12.5°	2249.8	2158.9	2018.3	1896.2	1759.8	1659.0	1566.7	1514.1	1509.8	1492.8	1474.3
15°	2288.2	2187.4	1998.4	1832.3	1666.1	1559.6	1474.3	1406.2	1372.1	1370.6	1356.4
17.5°	2357.8	2220.0	1967.2	1766.9	1590.8	1471.5	1349.3	1323.8	1267.0	1234.3	1225.8
20°	2428.8	2268.3	1958.7	1701.6	1492.8	1345.1	1251.3	1180.3	1134.9	1100.8	1079.5
22.5°	2521.1	2337.9	1961.5	1663.2	1413.3	1249.9	1127.8	1022.7	938.9	897.7	877.8
25°	2654.6	2418.9	1982.8	1605.0	1319.5	1147.6	970.1	830.9	713.0	683.2	669.0
27.5°	2825.1	2532.5	2012.6	1545.3	1232.9	1009.9	779.8	623.5	525.5	502.8	488.6
30°	3086.4	2702.9	2016.9	1508.4	1154.8	830.9	583.8	461.6	384.9	360.8	363.6
32.5°	3577.9	3068.0	2073.7	1431.7	1015.6	637.7	428.9	336.6	278.4	269.9	284.1
35°	4148.9	3498.3	2183.1	1392.0	856.5	461.6	306.8	247.1	210.2	221.6	227.3
37.5°	4516.7	3877.6	2357.8	1301.0	670.4	339.5	214.5	193.2	186.1	193.2	206.0
40°	4945.7	4185.8	2506.9	1208.7	475.8	232.9	171.9	176.1	167.6	166.2	171.9
42.5°	5293.7	4502.5	2666.0	1056.7	330.9	173.3	157.7	160.5	154.8	147.7	147.7
45°	5624.6	4776.7	2664.6	852.2	218.7	153.4	144.9	150.6	149.1	139.2	137.8
47.5°	5914.4	5053.6	2666.0	619.3	166.2	140.6	134.9	140.6	140.6	132.1	130.7
50°	6273.7	5283.7	2623.4	396.3	152.0	130.7	129.3	127.8	133.5	122.2	119.3
52.5°	6493.9	5451.3	2431.7	267.0	140.6	123.6	120.7	117.9	120.7	110.8	110.8
55°	6735.3	5660.1	2181.7	211.6	133.5	115.0	113.6	110.8	110.8	99.4	100.8
57.5°	6998.1	5830.6	1845.0	186.1	127.8	109.4	106.5	102.3	96.6	88.1	86.6
60°	7188.4	5866.1	1509.8	169.0	123.6	106.5	95.2	89.5	79.5	73.9	72.4
62.5°	7252.3	5884.5	1224.3	152.0	116.5	98.0	85.2	75.3	63.9	59.7	59.7
65°	7199.8	5671.5	917.6	137.8	107.9	90.9	75.3	61.1	49.7	45.5	44.0
67.5°	6861.7	5279.5	667.6	123.6	95.2	82.4	65.3	49.7	39.8	35.5	35.5
70°	6246.7	4817.9	451.7	103.7	82.4	72.4	61.1	39.8	32.7	28.4	27.0
72.5°	5576.3	4084.9	288.3	83.8	63.9	56.8	44.0	34.1	27.0	21.3	21.3
75°	4410.2	3208.6	200.3	61.1	45.5	42.6	34.1	28.4	22.7	17.0	17.0
77.5°	3069.4	2085.1	157.7	46.9	31.2	28.4	25.6	21.3	18.5	14.2	12.8
80°	1779.7	1254.2	95.2	31.2	21.3	18.5	17.0	17.0	14.2	9.9	9.9
82.5°	883.5	522.7	41.2	19.9	14.2	12.8	11.4	9.9	9.9	7.1	7.1
85°	173.3	89.5	15.6	9.9	7.1	7.1	5.7	5.7	4.3	2.8	2.8
87.5°	5.7	4.3	4.3	4.3	2.8	2.8	1.4	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)