

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: P509420

Luminaire Tested: **VERD-CA2-90-750-U-T2-HSS**

Issue Date: 3/4/2021

Test Information

Test Method: LM-79-08
Report Number: P509420
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-CA2-90-750-U-T2-HSS
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 1250mA LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11999 lumens
Efficiency: N/A
Efficacy: 127.4 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

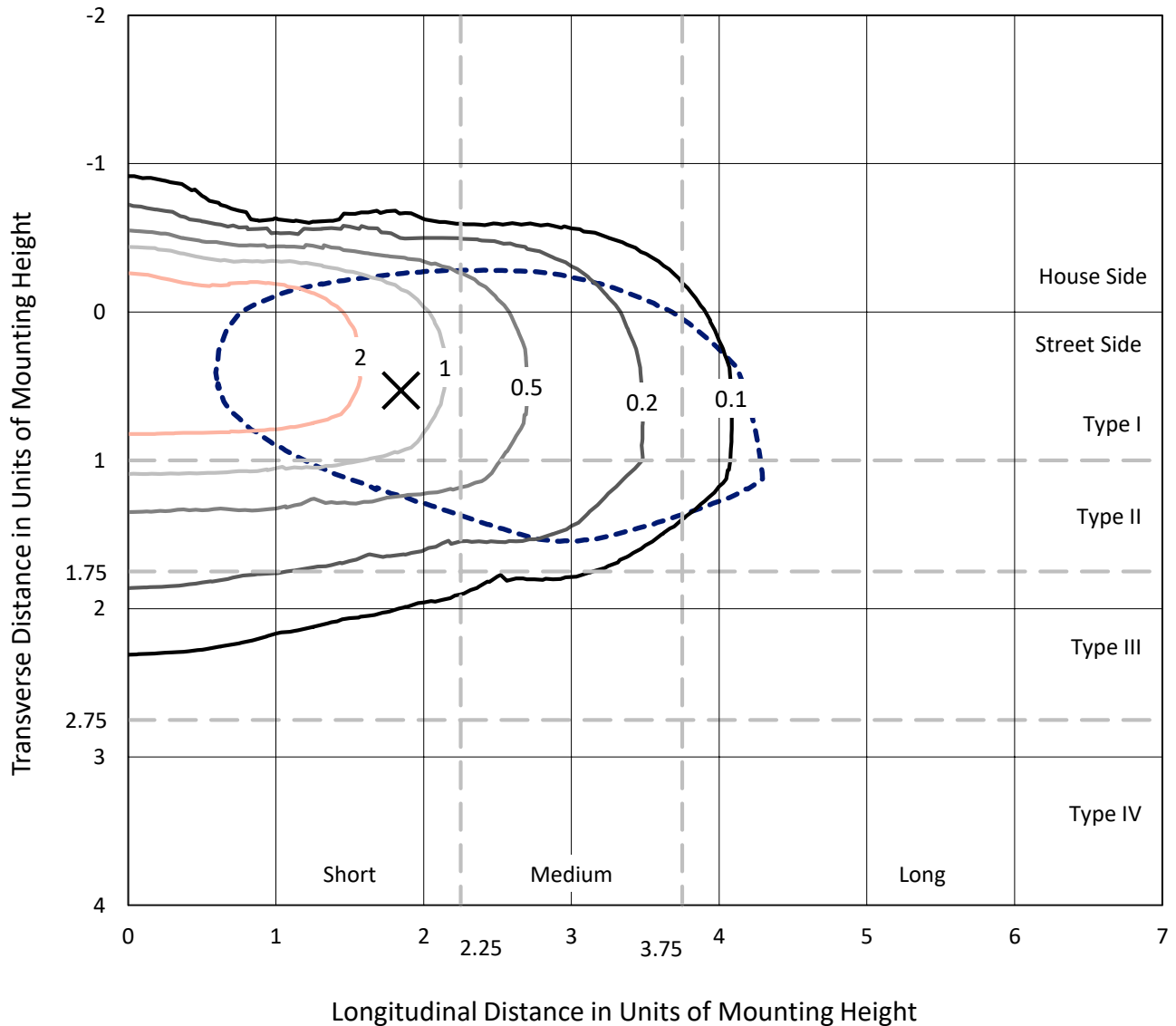
Input Watts (W): 94.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P509420
 CATALOG NUMBER: VERD-CA2-90-750-U-T2-HSS

Iso-Footcandle Lines of Horizontal Illumination

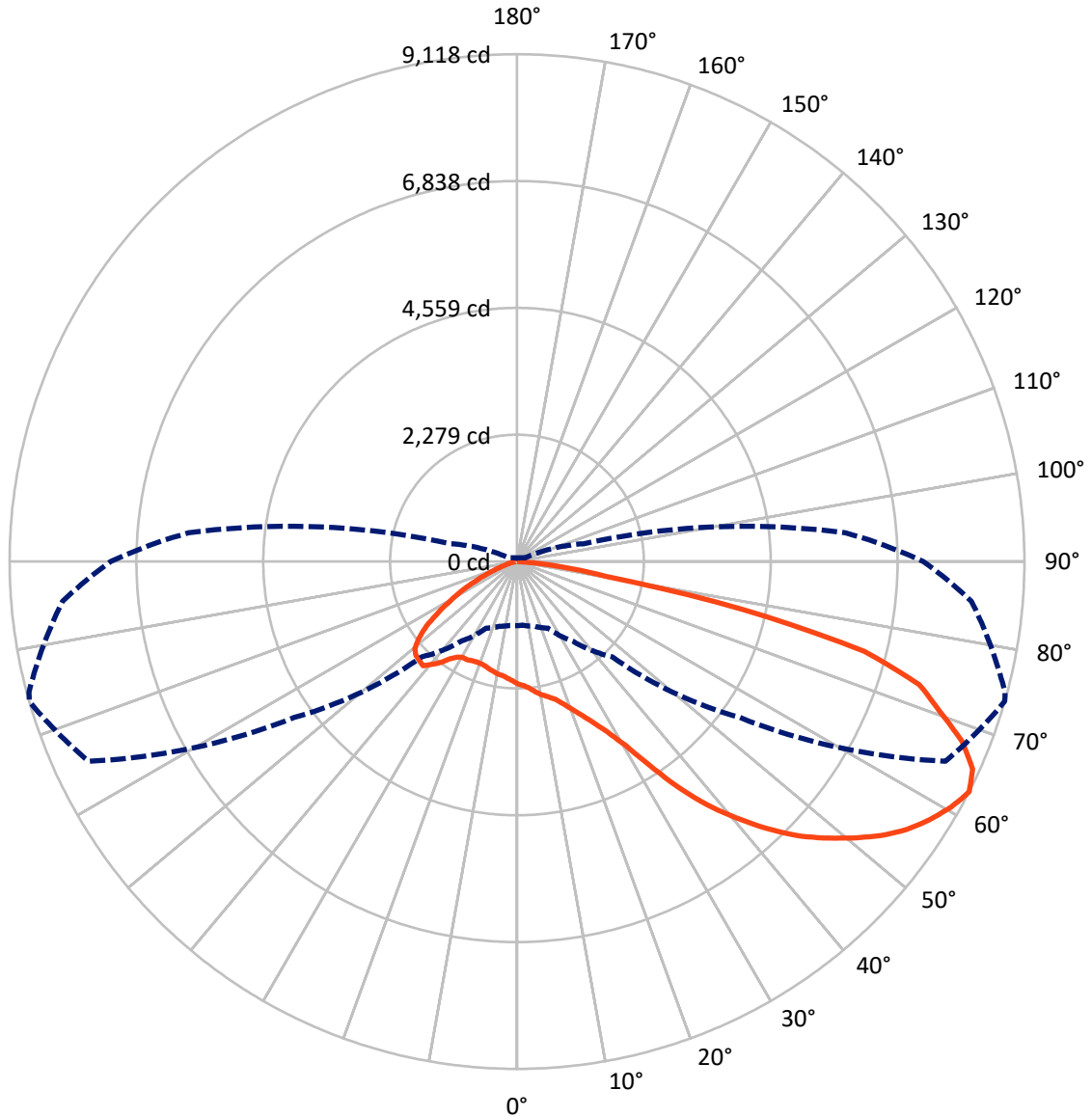
× Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P509420
CATALOG NUMBER: VERD-CA2-90-750-U-T2-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P509420

CATALOG NUMBER: VERD-CA2-90-750-U-T2-HSS

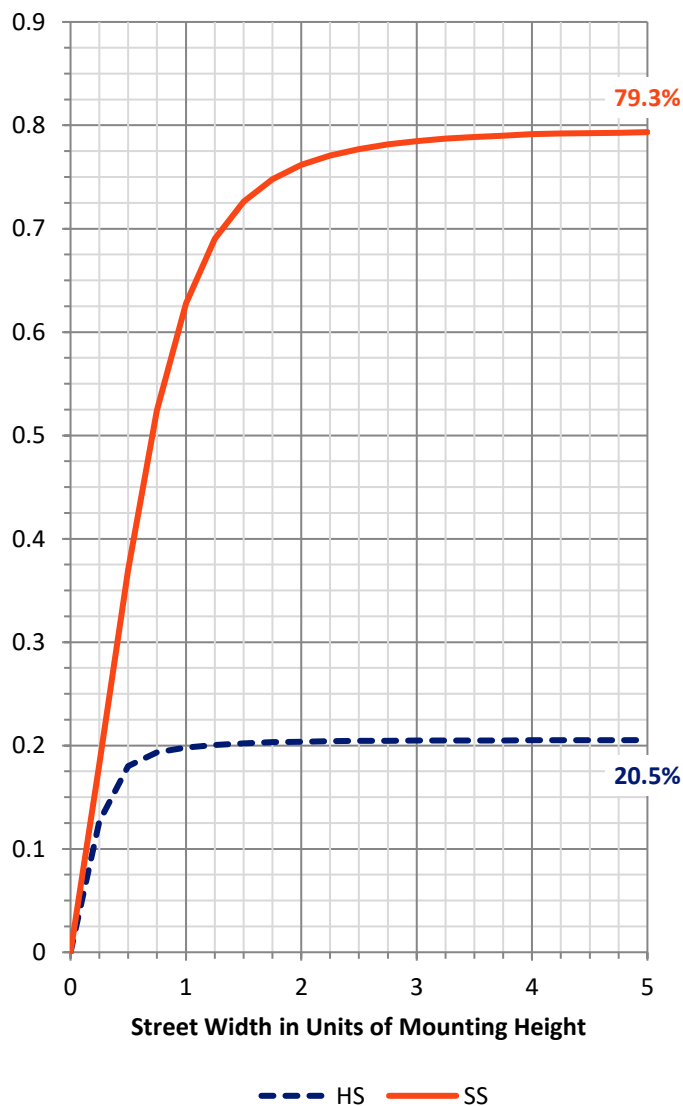
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2491.7	0.0	2491.7
	% Fixture	20.8	0.0	20.8
Street Side	Lumens	9507.3	0.0	9507.3
	% Fixture	79.2	0.0	79.2
Total	Lumens	11999.0	0.0	11999.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	209.7	1.7
10°-20°	633.3	5.3
20°-30°	1069.2	8.9
30°-40°	1590.3	13.3
40°-50°	2152.4	17.9
50°-60°	2476.3	20.6
60°-70°	2390.3	19.9
70°-80°	1353.3	11.3
80°-90°	124.1	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°	11999.0	100.0
0°-180°	11999.0	100.0

Coefficient of Utilization



REPORT NUMBER: P509420

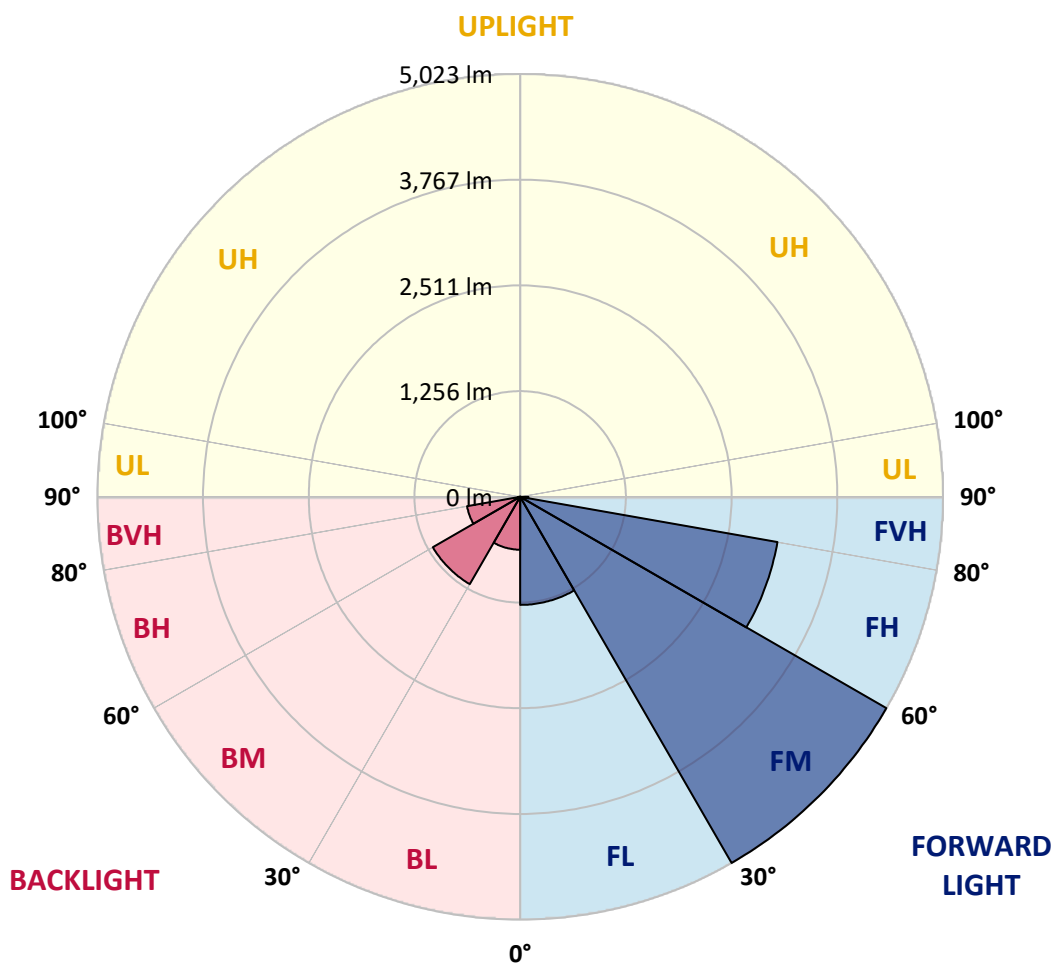
CATALOG NUMBER: VERD-CA2-90-750-U-T2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1283.9	10.7			
FM	(30°-60°)	5022.5	41.9			
FH	(60°-80°)	3103.1	25.9			G2/5000
FVH	(80°-90°)	97.8	0.8			G1/100
BL	(0°-30°)	628.3	5.2	B2/1000		
BM	(30°-60°)	1196.5	10.0	B2/2500		
BH	(60°-80°)	640.6	5.3	B2/1000		G2/1000
BVH	(80°-90°)	26.3	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: P509420

CATALOG NUMBER: VERD-CA2-90-750-U-T2-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	2199.4	2199.4	2199.4	2199.4	2199.4	2199.4	2199.4	2199.4	2199.4	2199.4	2199.4
2.5°	2398.1	2382.4	2369.5	2362.4	2342.4	2325.2	2290.9	2255.1	2230.8	2229.4	2206.5
5°	2498.2	2496.8	2468.2	2462.5	2435.3	2426.7	2392.4	2340.9	2280.9	2273.7	2212.2
7.5°	2629.8	2614.1	2582.6	2569.7	2538.3	2515.4	2469.6	2421.0	2360.9	2353.8	2246.5
10°	2757.1	2748.5	2729.9	2731.3	2687.0	2644.1	2575.5	2492.5	2435.3	2426.7	2295.2
12.5°	2904.4	2877.2	2845.7	2828.6	2784.2	2757.1	2691.3	2582.6	2492.5	2483.9	2352.4
15°	3005.9	2991.6	2963.0	2951.5	2908.6	2864.3	2788.5	2704.2	2568.3	2559.7	2411.0
17.5°	3114.6	3107.4	3074.5	3067.4	3025.9	2973.0	2914.4	2804.3	2685.6	2671.3	2481.1
20°	3187.5	3174.6	3170.3	3168.9	3157.5	3124.6	3050.2	2964.4	2832.9	2807.1	2571.2
22.5°	3284.7	3271.9	3277.6	3283.3	3299.0	3284.7	3236.1	3134.6	3004.5	2981.6	2712.7
25°	3294.7	3286.2	3324.8	3404.9	3436.3	3452.0	3414.9	3336.2	3210.4	3180.3	2881.5
27.5°	3321.9	3309.0	3350.5	3434.9	3576.5	3600.8	3607.9	3570.7	3464.9	3447.8	3110.3
30°	3273.3	3264.7	3329.1	3473.5	3632.2	3769.5	3822.4	3873.9	3825.3	3795.2	3429.2
32.5°	3154.6	3160.3	3244.7	3436.3	3729.5	3941.1	4078.4	4260.0	4347.2	4341.5	3994.0
35°	2981.6	2978.7	3120.3	3390.6	3738.0	4102.7	4358.7	4727.6	4972.1	4955.0	4587.5
37.5°	2834.3	2827.1	2987.3	3274.7	3745.2	4231.4	4687.6	5238.1	5548.4	5531.3	5072.2
40°	2654.1	2665.5	2808.5	3140.3	3685.1	4327.2	4973.6	5734.3	6051.8	6051.8	5574.2
42.5°	2472.5	2482.5	2624.1	2953.0	3597.9	4397.3	5242.4	6229.1	6552.3	6559.5	5918.8
45°	2313.8	2318.0	2446.7	2742.8	3440.6	4408.7	5489.8	6725.3	7021.4	7002.8	6312.1
47.5°	2034.9	2082.1	2283.7	2554.0	3226.1	4358.7	5698.6	7167.2	7424.6	7386.0	6686.7
50°	1621.6	1621.6	1900.5	2373.8	2980.1	4225.7	5863.0	7570.5	7807.9	7772.1	7014.2
52.5°	1490.1	1492.9	1578.7	2120.7	2731.3	3996.9	5957.4	7970.9	8184.0	8159.6	7324.5
55°	1420.0	1424.3	1464.3	1718.9	2505.4	3646.5	5960.3	8281.2	8502.8	8448.5	7586.2
57.5°	1314.2	1307.0	1391.4	1531.5	2240.8	3194.6	5820.1	8521.4	8750.2	8708.8	7800.7
60°	1239.8	1228.4	1285.6	1411.4	1956.3	2727.0	5446.9	8695.9	8961.9	8986.2	8010.9
62.5°	1152.6	1148.3	1202.6	1321.3	1746.0	2421.0	4886.3	8492.8	9117.8	9079.1	8196.8
65°	1065.4	1056.8	1108.3	1201.2	1543.0	2170.8	4321.5	8192.5	8997.6	9032.0	8234.0
67.5°	951.0	949.5	998.1	1066.8	1321.3	1890.5	3503.5	7797.9	8625.8	8601.5	7896.5
70°	812.2	812.2	860.9	920.9	1104.0	1613.1	2689.9	7121.5	8053.8	8195.4	7318.8
72.5°	656.4	659.2	707.9	776.5	910.9	1314.2	1983.4	6193.4	7557.6	7330.2	6503.7
75°	350.4	314.6	554.8	624.9	735.0	1048.2	1357.1	4026.9	6445.1	6287.8	5395.4
77.5°	84.4	88.7	174.5	324.6	391.8	580.6	667.8	1864.7	4155.6	4405.9	3848.2
80°	55.8	61.5	94.4	230.2	261.7	308.9	264.6	812.2	1611.6	1717.4	2233.7
82.5°	28.6	31.5	58.6	91.5	93.0	80.1	100.1	409.0	852.3	923.8	1073.9
85°	10.0	15.7	30.0	40.0	37.2	30.0	24.3	101.5	201.6	224.5	233.1
87.5°	0.0	0.0	4.3	4.3	2.9	2.9	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: P509420

CATALOG NUMBER: VERD-CA2-90-750-U-T2-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2199.4	2199.4	2199.4	2199.4	2199.4	2199.4	2199.4	2199.4	2199.4	2199.4	2199.4
2.5°	2187.9	2172.2	2147.9	2122.1	2095.0	2072.1	2059.2	2066.4	2074.9	2047.8	2037.8
5°	2183.6	2156.5	2110.7	2056.4	2014.9	1973.4	1924.8	1913.4	1901.9	1887.6	1871.9
7.5°	2203.6	2163.6	2070.7	2020.6	1933.4	1856.2	1813.3	1781.8	1753.2	1727.5	1711.7
10°	2240.8	2166.5	2062.1	1960.5	1864.7	1770.4	1677.4	1658.8	1653.1	1615.9	1588.7
12.5°	2265.1	2173.6	2032.0	1909.1	1771.8	1670.3	1577.3	1524.4	1520.1	1502.9	1484.4
15°	2303.7	2202.2	2012.0	1844.7	1677.4	1570.2	1484.4	1415.7	1381.4	1380.0	1365.7
17.5°	2373.8	2235.1	1980.6	1778.9	1601.6	1481.5	1358.5	1332.8	1275.6	1242.7	1234.1
20°	2445.3	2283.7	1972.0	1713.2	1502.9	1354.2	1259.8	1188.3	1142.6	1108.3	1086.8
22.5°	2538.3	2353.8	1974.8	1674.5	1422.9	1258.4	1135.4	1029.6	945.2	903.8	883.7
25°	2672.7	2435.3	1996.3	1615.9	1328.5	1155.4	976.7	836.6	717.9	687.8	673.5
27.5°	2844.3	2549.7	2026.3	1555.9	1241.2	1016.7	785.1	627.8	529.1	506.2	491.9
30°	3107.4	2721.3	2030.6	1518.7	1162.6	836.6	587.7	464.8	387.5	363.2	366.1
32.5°	3602.2	3088.8	2087.8	1441.5	1022.5	642.1	431.9	338.9	280.3	271.7	286.0
35°	4177.1	3522.1	2197.9	1401.4	862.3	464.8	308.9	248.8	211.6	223.1	228.8
37.5°	4547.4	3903.9	2373.8	1309.9	675.0	341.8	215.9	194.5	187.3	194.5	207.4
40°	4979.3	4214.2	2524.0	1216.9	479.1	234.5	173.0	177.3	168.7	167.3	173.0
42.5°	5329.7	4533.1	2684.1	1063.9	333.2	174.5	158.7	161.6	155.9	148.7	148.7
45°	5662.8	4809.1	2682.7	858.0	220.2	154.4	145.9	151.6	150.2	140.1	138.7
47.5°	5954.6	5088.0	2684.1	623.5	167.3	141.6	135.9	141.6	141.6	133.0	131.6
50°	6316.4	5319.6	2641.2	399.0	153.0	131.6	130.1	128.7	134.4	123.0	120.1
52.5°	6538.0	5488.4	2448.2	268.8	141.6	124.4	121.6	118.7	121.6	111.5	111.5
55°	6781.1	5698.6	2196.5	213.1	134.4	115.8	114.4	111.5	111.5	100.1	101.5
57.5°	7045.7	5870.2	1857.6	187.3	128.7	110.1	107.3	103.0	97.2	88.7	87.2
60°	7237.3	5905.9	1520.1	170.2	124.4	107.3	95.8	90.1	80.1	74.4	72.9
62.5°	7301.6	5924.5	1232.7	153.0	117.3	98.7	85.8	75.8	64.4	60.1	60.1
65°	7248.7	5710.0	923.8	138.7	108.7	91.5	75.8	61.5	50.1	45.8	44.3
67.5°	6908.4	5315.4	672.1	124.4	95.8	82.9	65.8	50.1	40.0	35.8	35.8
70°	6289.2	4850.6	454.7	104.4	82.9	72.9	61.5	40.0	32.9	28.6	27.2
72.5°	5614.2	4112.7	290.3	84.4	64.4	57.2	44.3	34.3	27.2	21.5	21.5
75°	4440.2	3230.4	201.6	61.5	45.8	42.9	34.3	28.6	22.9	17.2	17.2
77.5°	3090.3	2099.3	158.7	47.2	31.5	28.6	25.7	21.5	18.6	14.3	12.9
80°	1791.8	1262.7	95.8	31.5	21.5	18.6	17.2	17.2	14.3	10.0	10.0
82.5°	889.5	526.2	41.5	20.0	14.3	12.9	11.4	10.0	10.0	7.2	7.2
85°	174.5	90.1	15.7	10.0	7.2	7.2	5.7	5.7	4.3	2.9	2.9
87.5°	5.7	4.3	4.3	4.3	2.9	2.9	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)