

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: P509421

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

Issue Date: 3/4/2021

Test Information

Test Method: LM-79-08
Report Number: P509421
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-139-2)
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
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 1250mA LEDS AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13114 lumens
Efficiency: N/A
Efficacy: 139.2 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

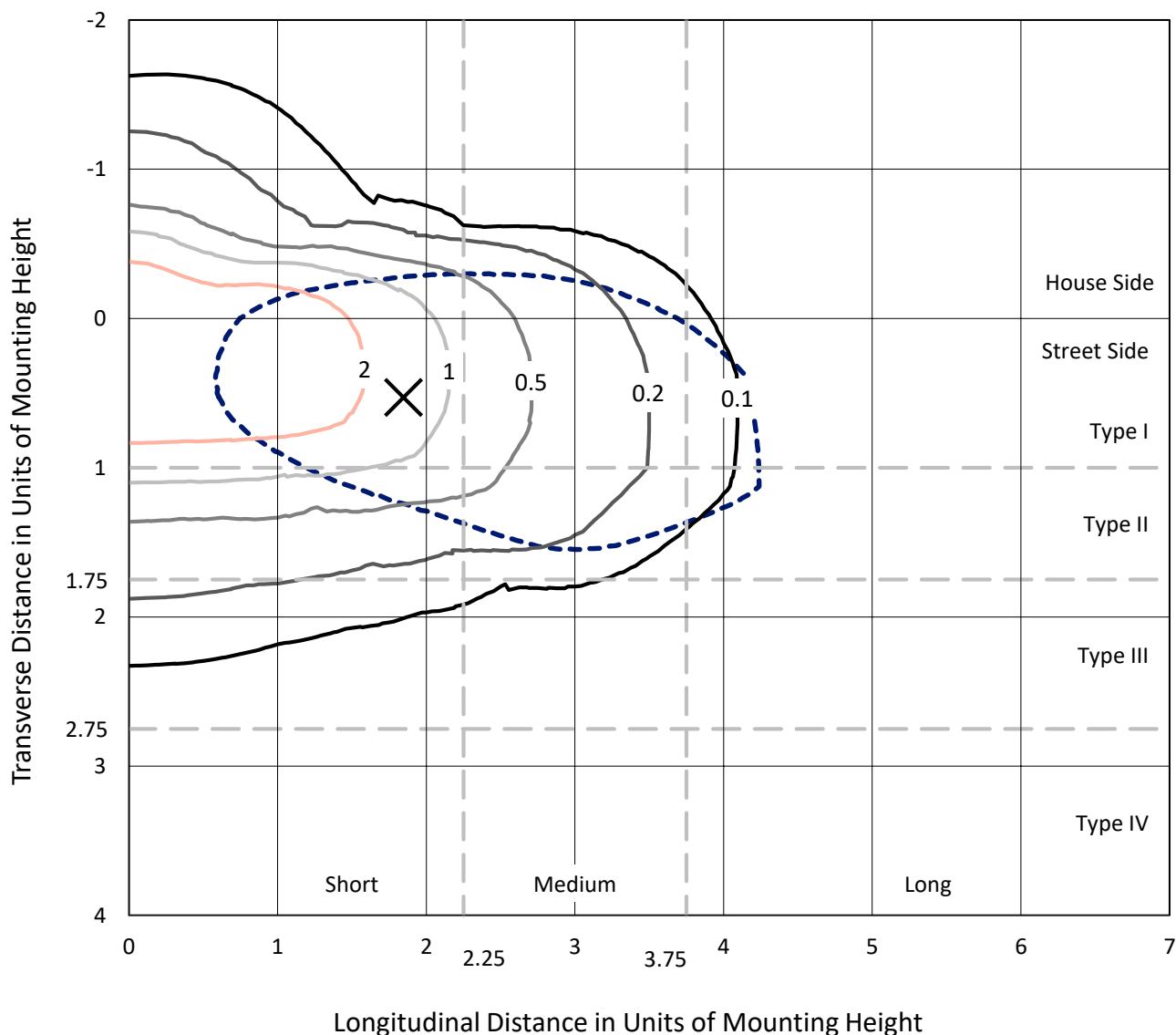
Input Watts (W): 94.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P509421
 CATALOG NUMBER: VERD-CA2-90-750-U-T2

Iso-Footcandle Lines of Horizontal Illumination

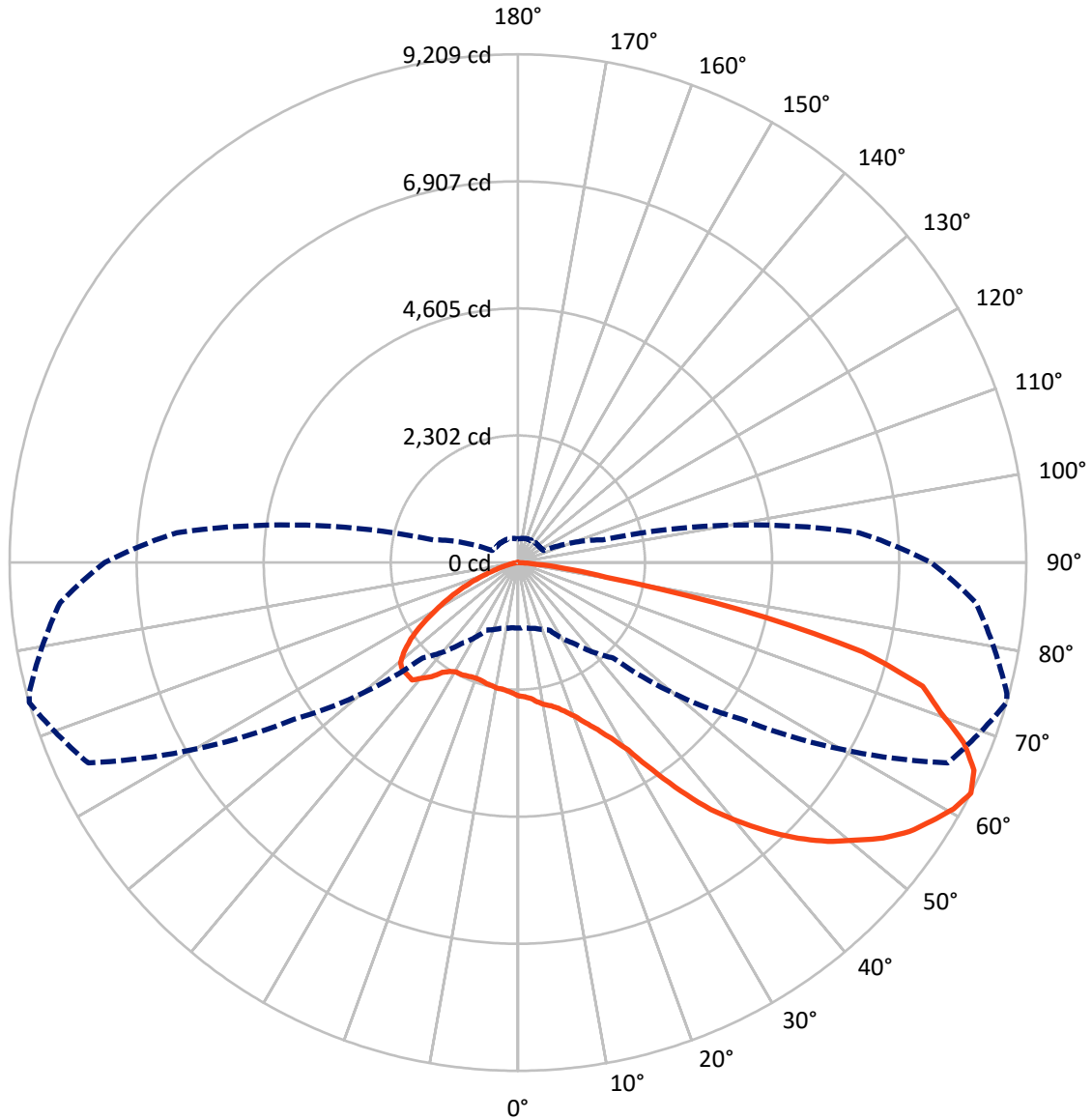
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 fc
 Type II - Short - N/A

REPORT NUMBER: P509421
CATALOG NUMBER: VERD-CA2-90-750-U-T2

Luminous Intensity Polar Plot



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

REPORT NUMBER: P509421

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

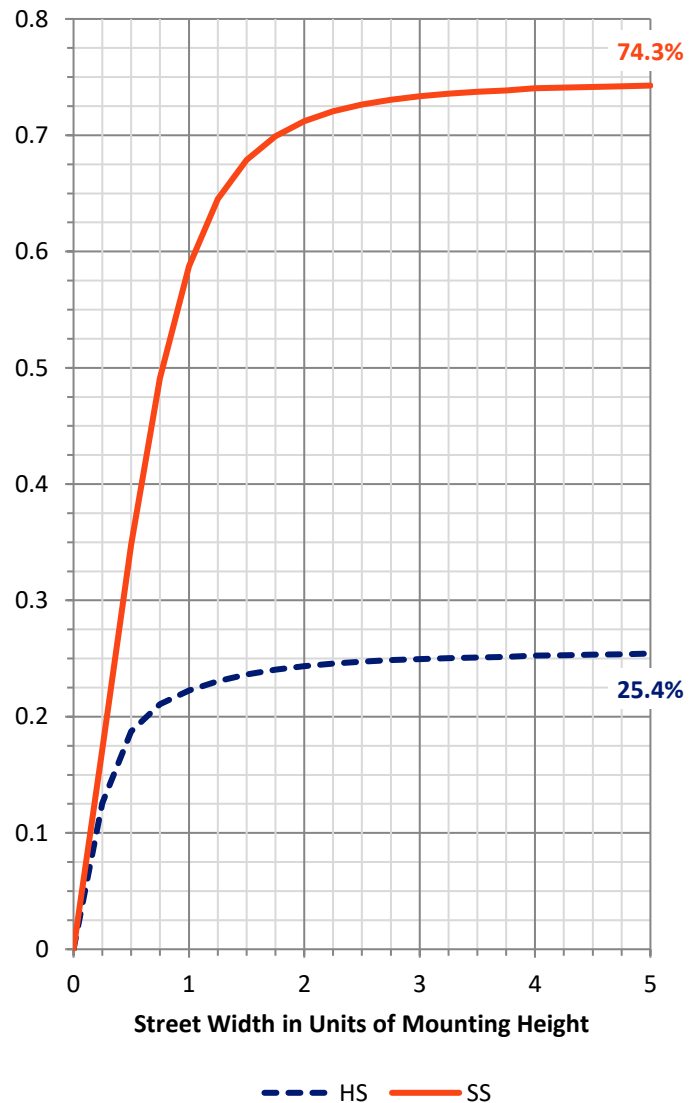
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3386.1	0.0	3386.1
	% Fixture	25.8	0.0	25.8
Street Side	Lumens	9727.9	0.0	9727.9
	% Fixture	74.2	0.0	74.2
Total	Lumens	13114.0	0.0	13114.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	232.4	1.8
10°-20°	708.4	5.4
20°-30°	1194.6	9.1
30°-40°	1745.3	13.3
40°-50°	2323.9	17.7
50°-60°	2674.4	20.4
60°-70°	2584.4	19.7
70°-80°	1487.8	11.3
80°-90°	162.8	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°	13114.0	100.0
0°-180°	13114.0	100.0



REPORT NUMBER: P509421

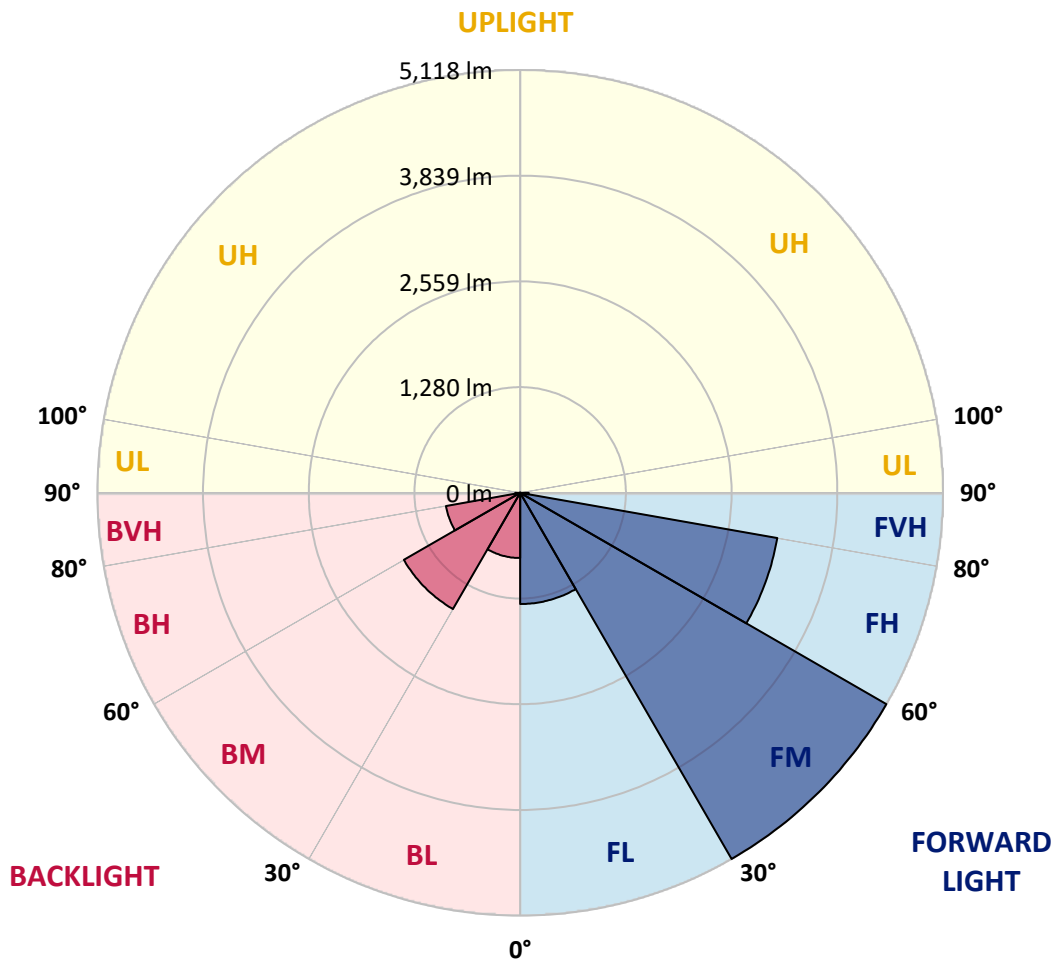
CATALOG NUMBER: VERD-CA2-90-750-U-T2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1345.9	10.3			
FM (30°-60°)	5118.4	39.0			
FH (60°-80°)	3160.6	24.1			G2/5000
FVH (80°-90°)	103.0	0.8			G2/225
BL (0°-30°)	789.4	6.0	B2/1000		
BM (30°-60°)	1625.3	12.4	B2/2500		
BH (60°-80°)	911.6	7.0	B2/1000		G2/1000
BVH (80°-90°)	59.8	0.5			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: P509421

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

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	2418.2	2418.2	2418.2	2418.2	2418.2	2418.2	2418.2	2418.2	2418.2	2418.2	2418.2
2.5°	2588.3	2569.7	2558.3	2545.4	2529.7	2524.0	2489.7	2459.6	2435.3	2436.7	2421.0
5°	2682.7	2662.7	2636.9	2632.7	2612.6	2608.3	2575.5	2528.3	2475.4	2468.2	2421.0
7.5°	2788.5	2777.1	2761.4	2741.3	2708.4	2687.0	2639.8	2602.6	2548.3	2541.1	2448.2
10°	2917.2	2908.6	2897.2	2897.2	2854.3	2808.5	2751.3	2658.4	2615.5	2608.3	2495.4
12.5°	3068.8	3043.1	3005.9	2984.4	2944.4	2915.8	2854.3	2755.6	2662.7	2659.8	2539.7
15°	3167.5	3146.0	3121.7	3113.1	3061.7	3014.5	2948.7	2870.0	2739.9	2729.9	2594.0
17.5°	3277.6	3257.6	3229.0	3213.2	3180.4	3126.0	3067.4	2964.4	2848.6	2838.6	2655.5
20°	3339.1	3317.6	3309.1	3311.9	3300.5	3273.3	3203.2	3110.3	2977.3	2964.4	2739.9
22.5°	3407.7	3393.4	3396.3	3417.7	3439.2	3429.2	3374.8	3271.9	3157.5	3137.4	2875.8
25°	3409.2	3397.7	3436.3	3519.3	3565.0	3587.9	3559.3	3474.9	3353.4	3334.8	3048.8
27.5°	3433.5	3416.3	3457.8	3545.0	3683.7	3730.9	3740.9	3709.5	3605.1	3582.2	3256.1
30°	3370.5	3359.1	3422.0	3573.6	3736.6	3893.9	3951.1	3999.7	3941.1	3942.5	3576.5
32.5°	3261.9	3241.8	3337.7	3523.6	3826.7	4041.2	4192.8	4388.7	4478.8	4470.2	4134.2
35°	3054.5	3065.9	3194.7	3479.2	3829.6	4191.4	4488.8	4839.2	5083.7	5078.0	4711.9
37.5°	2907.2	2901.5	3053.1	3354.8	3828.1	4324.4	4776.2	5359.7	5675.7	5667.1	5208.1
40°	2729.9	2731.3	2882.9	3200.4	3760.9	4407.3	5073.7	5853.0	6174.8	6161.9	5682.9
42.5°	2539.7	2545.4	2687.0	3011.6	3668.0	4470.2	5339.7	6352.1	6663.9	6675.3	6063.3
45°	2369.5	2372.4	2512.5	2810.0	3503.5	4477.4	5578.5	6824.0	7127.2	7100.0	6462.2
47.5°	2119.3	2122.1	2329.5	2618.4	3286.2	4418.7	5775.8	7273.0	7550.5	7493.3	6799.7
50°	1660.2	1666.0	1911.9	2419.6	3021.6	4284.3	5931.7	7694.9	7909.4	7885.1	7145.8
52.5°	1533.0	1528.7	1631.6	2182.2	2784.2	4041.2	6030.4	8073.9	8291.2	8288.4	7431.8
55°	1468.6	1464.3	1498.7	1768.9	2551.1	3680.9	6027.5	8368.4	8607.3	8548.6	7693.5
57.5°	1354.2	1345.6	1434.3	1567.3	2290.9	3231.8	5884.5	8633.0	8836.1	8818.9	7929.4
60°	1272.7	1265.6	1325.6	1448.6	2013.5	2775.7	5517.0	8770.3	9066.3	9073.4	8128.2
62.5°	1188.3	1184.1	1235.5	1349.9	1796.1	2442.5	4950.7	8590.1	9209.3	9170.7	8327.0
65°	1092.5	1089.7	1138.3	1231.2	1580.2	2189.4	4395.9	8268.3	9080.6	9124.9	8352.7
67.5°	978.1	976.7	1023.9	1088.2	1344.2	1934.8	3546.4	7889.4	8713.1	8664.5	8022.4
70°	838.0	832.3	890.9	951.0	1125.4	1645.9	2759.9	7215.8	8115.3	8291.2	7364.6
72.5°	705.0	702.1	757.9	802.2	932.4	1344.2	2013.5	6240.6	7667.7	7414.6	6635.3
75°	552.0	537.7	596.3	637.8	735.0	1069.7	1372.8	4168.5	6453.7	6400.7	5574.2
77.5°	223.1	258.8	308.9	346.1	410.4	606.3	717.9	1977.7	4117.0	4298.6	3876.8
80°	85.8	91.5	220.2	248.8	276.0	348.9	276.0	833.7	1624.5	1771.8	2245.1
82.5°	48.6	54.3	108.7	104.4	103.0	88.7	103.0	409.0	848.0	929.5	1084.0
85°	27.2	30.0	44.3	48.6	41.5	35.8	31.5	107.3	211.6	200.2	224.5
87.5°	4.3	5.7	7.2	7.2	4.3	4.3	4.3	5.7	5.7	5.7	7.2
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: P509421
 CATALOG NUMBER: VERD-CA2-90-750-U-T2

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2418.2	2418.2	2418.2	2418.2	2418.2	2418.2	2418.2	2418.2	2418.2	2418.2	2418.2
2.5°	2405.3	2389.6	2373.8	2355.2	2332.4	2318.1	2312.3	2319.5	2339.5	2315.2	2295.2
5°	2396.7	2375.3	2339.5	2303.8	2275.2	2250.8	2218.0	2215.1	2220.8	2210.8	2185.1
7.5°	2415.3	2383.8	2310.9	2286.6	2226.5	2169.3	2150.7	2143.6	2126.4	2106.4	2082.1
10°	2452.5	2388.1	2313.8	2242.3	2186.5	2125.0	2053.5	2054.9	2047.8	2024.9	2002.0
12.5°	2471.1	2395.3	2286.6	2210.8	2125.0	2049.2	1979.1	1947.7	1960.5	1942.0	1917.6
15°	2505.4	2425.3	2276.6	2165.0	2047.8	1962.0	1909.1	1863.3	1834.7	1839.0	1824.7
17.5°	2569.7	2452.5	2250.8	2115.0	1987.7	1886.2	1784.7	1780.4	1737.5	1713.2	1691.7
20°	2636.9	2501.1	2248.0	2060.6	1890.5	1764.6	1683.1	1637.4	1611.6	1591.6	1575.9
22.5°	2724.2	2568.3	2258.0	2029.2	1803.2	1661.7	1557.3	1495.8	1454.3	1440.0	1428.6
25°	2847.2	2652.7	2285.2	1973.4	1711.7	1548.7	1407.1	1342.8	1295.6	1284.2	1275.6
27.5°	3015.9	2759.9	2312.3	1913.4	1604.5	1390.0	1239.8	1176.9	1124.0	1122.6	1106.8
30°	3281.9	2924.4	2322.3	1860.4	1490.1	1219.8	1069.7	1011.0	971.0	955.2	966.7
32.5°	3778.1	3287.6	2385.3	1778.9	1345.6	1053.9	926.6	879.5	835.1	818.0	829.4
35°	4314.4	3722.3	2491.1	1723.2	1186.9	896.6	809.4	753.6	699.3	690.7	686.4
37.5°	4707.6	4118.4	2691.3	1631.6	1036.8	800.8	686.4	640.6	609.2	592.0	607.8
40°	5153.8	4447.3	2842.9	1534.4	883.7	699.3	572.0	557.7	543.4	532.0	549.1
42.5°	5507.0	4786.3	3023.0	1405.7	760.8	593.5	509.1	520.5	527.7	522.0	523.4
45°	5831.6	5037.9	3034.5	1209.8	649.2	514.8	490.5	513.4	530.5	527.7	526.2
47.5°	6149.1	5338.2	3061.7	1002.4	569.1	494.8	491.9	509.1	532.0	536.3	536.3
50°	6476.5	5567.0	3020.2	806.5	539.1	497.6	496.2	494.8	523.4	524.8	529.1
52.5°	6722.5	5752.9	2824.3	666.4	537.7	506.2	503.4	489.1	501.9	511.9	504.8
55°	6982.8	5984.6	2576.9	613.5	534.8	509.1	520.5	496.2	487.6	479.1	487.6
57.5°	7230.1	6146.2	2252.3	582.0	523.4	504.8	527.7	494.8	476.2	451.9	443.3
60°	7420.3	6183.4	1890.5	549.1	509.1	494.8	496.2	484.8	460.5	430.4	417.6
62.5°	7484.7	6204.8	1590.2	517.7	480.5	479.1	467.6	463.3	453.3	434.7	429.0
65°	7430.4	5961.7	1269.9	479.1	456.2	457.6	440.4	426.1	403.3	373.2	370.4
67.5°	7057.1	5534.2	973.8	430.4	419.0	433.3	414.7	390.4	364.7	344.6	347.5
70°	6417.9	5027.9	683.5	363.2	376.1	401.8	394.7	363.2	334.6	317.5	320.3
72.5°	5707.2	4260.0	464.8	283.1	306.0	360.4	360.4	338.9	310.3	287.4	281.7
75°	4501.7	3346.2	300.3	187.3	201.6	294.6	318.9	286.0	254.5	240.2	234.5
77.5°	3055.9	2179.3	191.6	107.3	134.4	193.1	251.7	256.0	301.7	303.2	290.3
80°	1796.1	1247.0	117.3	62.9	67.2	111.5	201.6	253.1	320.3	225.9	207.4
82.5°	893.8	532.0	52.9	38.6	40.0	55.8	108.7	290.3	247.4	141.6	135.9
85°	198.8	87.2	21.5	20.0	22.9	28.6	55.8	240.2	151.6	114.4	111.5
87.5°	7.2	5.7	5.7	5.7	4.3	4.3	11.4	78.7	60.1	50.1	47.2
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)