

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: P509405

Luminaire Tested: **VERD-CA2-90-730-U-T2**

Issue Date: 3/4/2021

Test Information

Test Method: LM-79-08
Report Number: P509405
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-CA2-90-730-U-T2
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 1250mA LEDS AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12645 lumens
Efficiency: N/A
Efficacy: 134.2 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

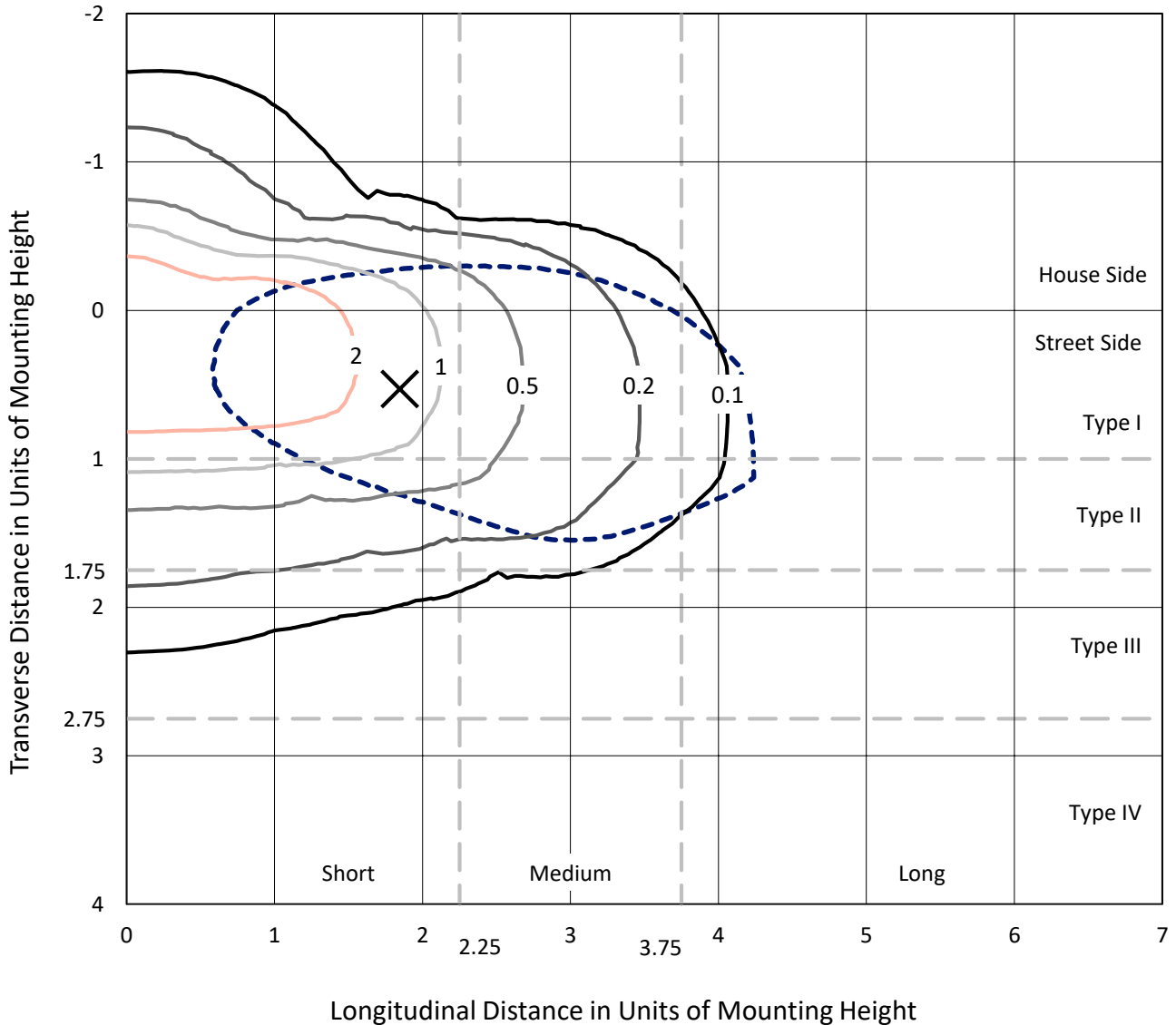
Input Watts (W): 94.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P509405
 CATALOG NUMBER: VERD-CA2-90-730-U-T2

Iso-Footcandle Lines of Horizontal Illumination

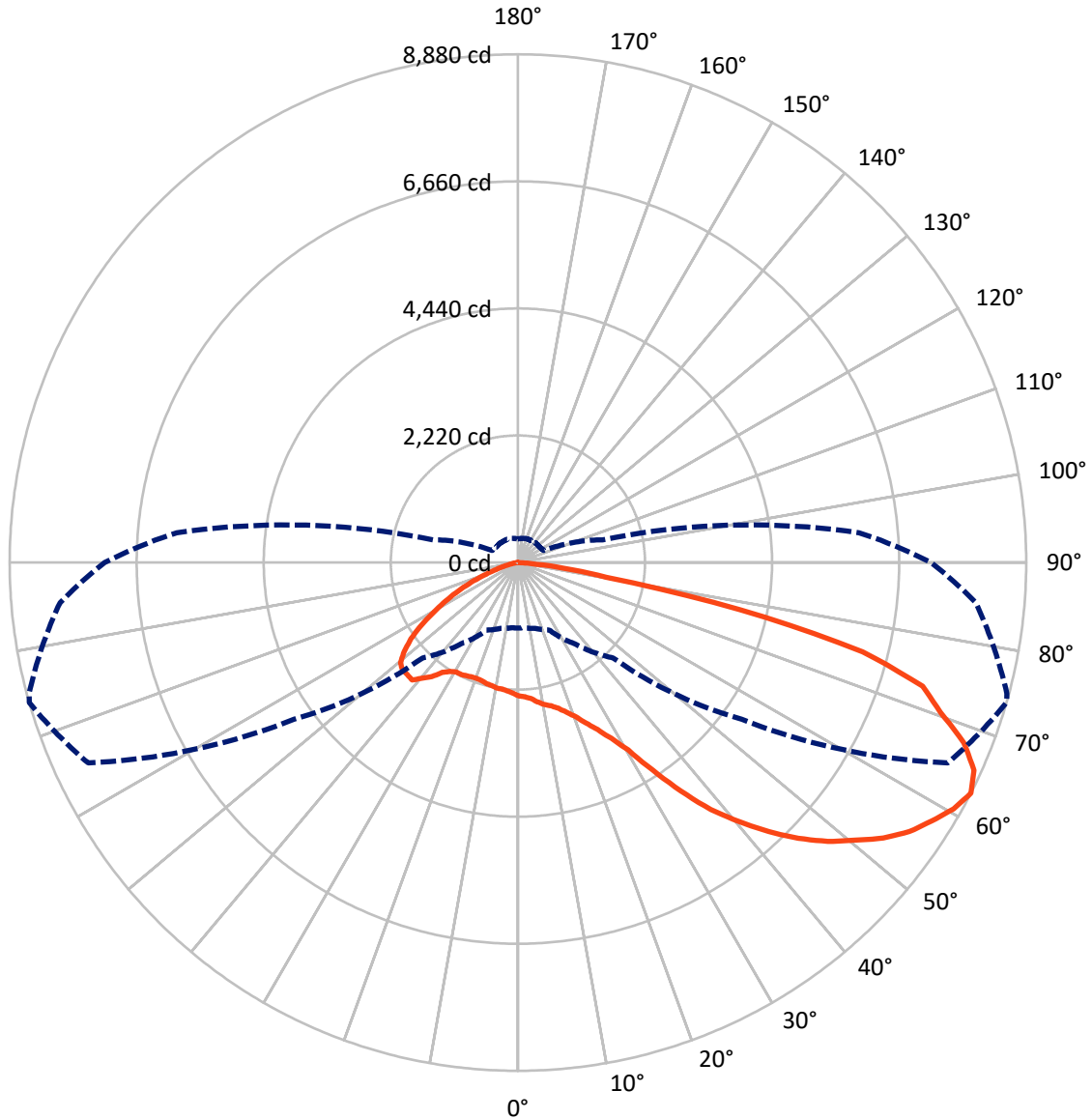
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 fc
 Type II - Short - N/A

REPORT NUMBER: P509405
CATALOG NUMBER: VERD-CA2-90-730-U-T2

Luminous Intensity Polar Plot



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

REPORT NUMBER: P509405

CATALOG NUMBER: VERD-CA2-90-730-U-T2

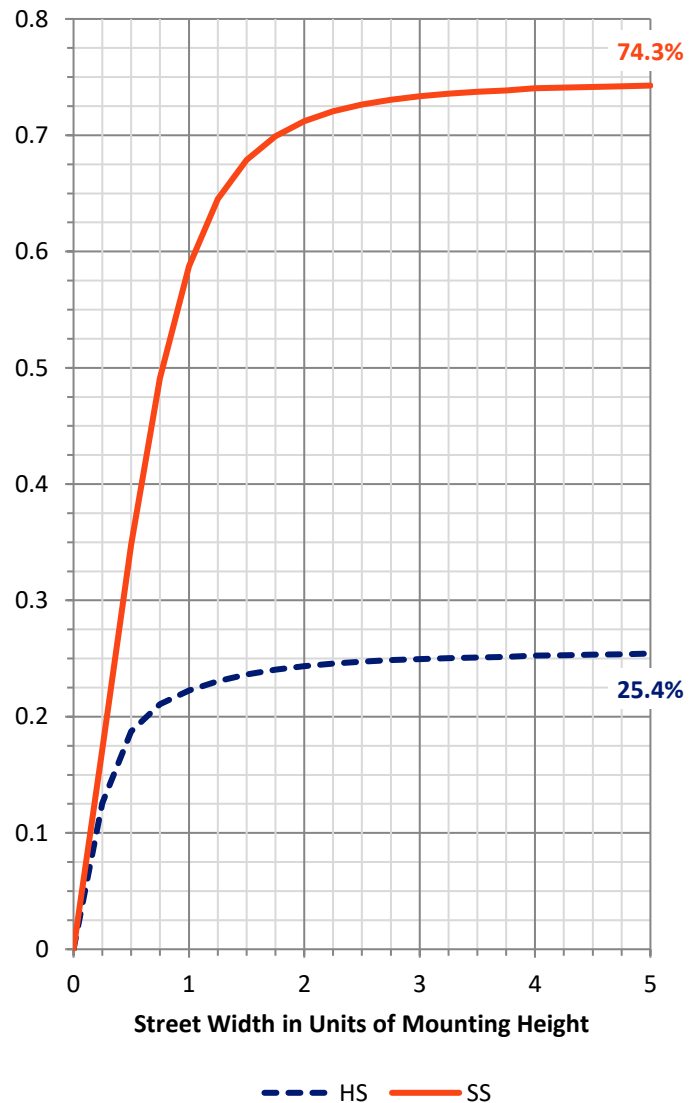
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3265.0	0.0	3265.0
	% Fixture	25.8	0.0	25.8
Street Side	Lumens	9380.0	0.0	9380.0
	% Fixture	74.2	0.0	74.2
Total	Lumens	12645.0	0.0	12645.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	224.1	1.8
10°-20°	683.1	5.4
20°-30°	1151.8	9.1
30°-40°	1682.9	13.3
40°-50°	2240.8	17.7
50°-60°	2578.8	20.4
60°-70°	2492.0	19.7
70°-80°	1434.5	11.3
80°-90°	156.9	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°	12645.0	100.0
0°-180°	12645.0	100.0



REPORT NUMBER: P509405

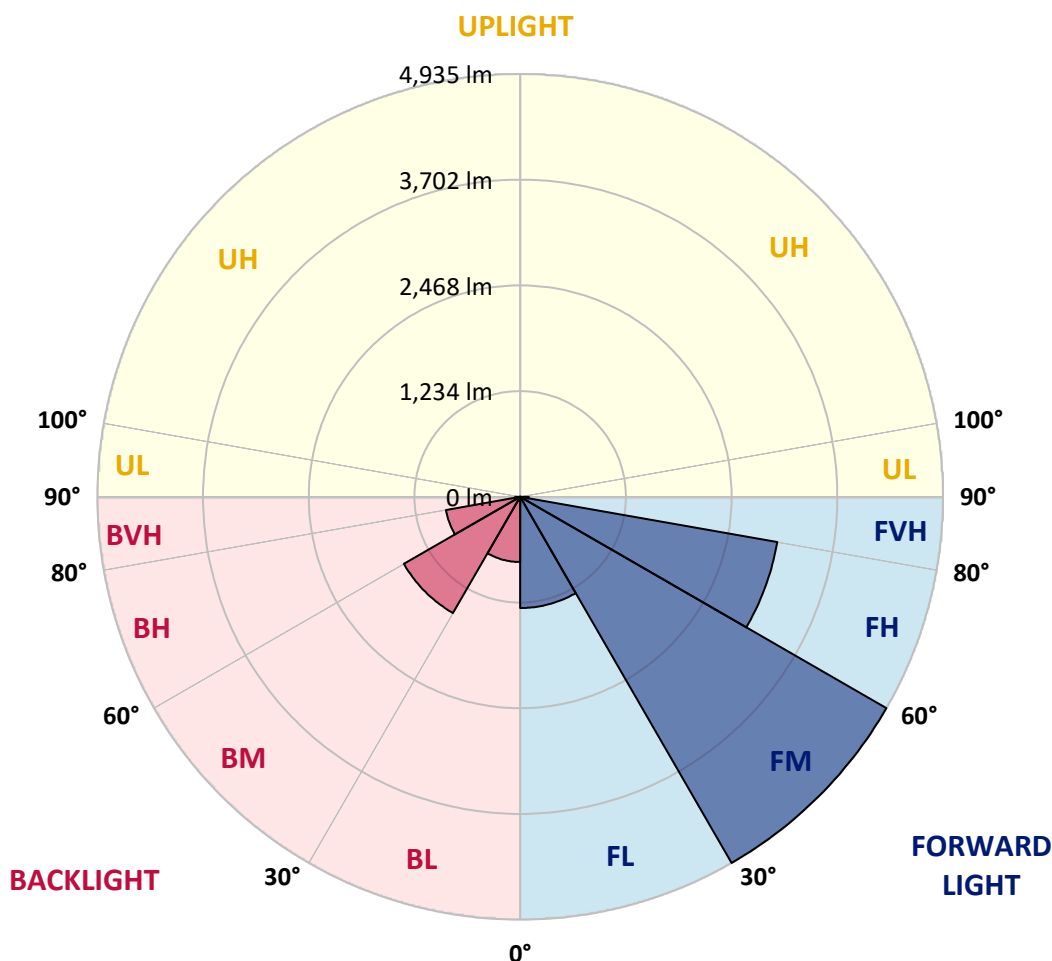
CATALOG NUMBER: VERD-CA2-90-730-U-T2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1297.8	10.3			
FM (30°-60°)	4935.4	39.0			
FH (60°-80°)	3047.5	24.1			G2/5000
FVH (80°-90°)	99.3	0.8			G1/100
BL (0°-30°)	761.2	6.0	B2/1000		
BM (30°-60°)	1567.2	12.4	B2/2500		
BH (60°-80°)	879.0	7.0	B2/1000		G2/1000
BVH (80°-90°)	57.7	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: P509405

CATALOG NUMBER: VERD-CA2-90-730-U-T2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	2331.7	2331.7	2331.7	2331.7	2331.7	2331.7	2331.7	2331.7	2331.7	2331.7	2331.7
2.5°	2495.8	2477.8	2466.8	2454.4	2439.2	2433.7	2400.6	2371.7	2348.2	2349.6	2334.4
5°	2586.8	2567.5	2542.6	2538.5	2519.2	2515.1	2483.3	2437.8	2386.8	2379.9	2334.4
7.5°	2688.8	2677.8	2662.6	2643.3	2611.6	2590.9	2545.4	2509.5	2457.1	2450.3	2360.6
10°	2812.9	2804.6	2793.6	2793.6	2752.2	2708.1	2652.9	2563.3	2522.0	2515.1	2406.1
12.5°	2959.1	2934.2	2898.4	2877.7	2839.1	2811.5	2752.2	2657.1	2567.5	2564.7	2448.9
15°	3054.2	3033.5	3010.1	3001.8	2952.2	2906.7	2843.2	2767.4	2641.9	2632.3	2501.3
17.5°	3160.4	3141.1	3113.5	3098.3	3066.6	3014.2	2957.7	2858.4	2746.7	2737.1	2560.6
20°	3219.7	3199.0	3190.7	3193.5	3182.4	3156.2	3088.7	2999.0	2870.8	2858.4	2641.9
22.5°	3285.9	3272.1	3274.8	3295.5	3316.2	3306.5	3254.1	3154.9	3044.5	3025.2	2772.9
25°	3287.2	3276.2	3313.4	3393.4	3437.5	3459.6	3432.0	3350.7	3233.5	3215.5	2939.8
27.5°	3310.7	3294.1	3334.1	3418.2	3552.0	3597.5	3607.1	3576.8	3476.1	3454.1	3139.7
30°	3250.0	3239.0	3299.6	3445.8	3603.0	3754.7	3809.8	3856.7	3800.2	3801.5	3448.6
32.5°	3145.2	3125.9	3218.3	3397.5	3689.9	3896.7	4042.9	4231.8	4318.6	4310.4	3986.3
35°	2945.3	2956.3	3080.4	3354.8	3692.6	4041.5	4328.3	4666.1	4901.9	4896.4	4543.4
37.5°	2803.2	2797.7	2943.9	3234.8	3691.2	4169.7	4605.4	5168.0	5472.7	5464.5	5021.9
40°	2632.3	2633.6	2779.8	3085.9	3626.4	4249.7	4892.2	5643.7	5954.0	5941.6	5479.6
42.5°	2448.9	2454.4	2590.9	2903.9	3536.8	4310.4	5148.7	6124.9	6425.5	6436.6	5846.4
45°	2284.8	2287.5	2422.7	2709.5	3378.2	4317.2	5379.0	6580.0	6872.3	6846.1	6231.1
47.5°	2043.5	2046.2	2246.2	2524.7	3168.6	4260.7	5569.3	7012.9	7280.4	7225.3	6556.5
50°	1600.9	1606.4	1843.6	2333.1	2913.6	4131.1	5719.6	7419.7	7626.5	7603.1	6890.2
52.5°	1478.2	1474.0	1573.3	2104.2	2684.7	3896.7	5814.7	7785.1	7994.7	7991.9	7166.0
55°	1416.1	1412.0	1445.1	1705.7	2459.9	3549.2	5811.9	8069.2	8299.4	8242.9	7418.3
57.5°	1305.8	1297.5	1383.0	1511.2	2209.0	3116.2	5674.1	8324.2	8520.0	8503.5	7645.8
60°	1227.2	1220.3	1278.2	1396.8	1941.5	2676.4	5319.7	8456.6	8742.0	8748.9	7837.5
62.5°	1145.8	1141.7	1191.3	1301.7	1731.9	2355.1	4773.7	8282.9	8879.9	8842.7	8029.2
65°	1053.5	1050.7	1097.6	1187.2	1523.7	2111.1	4238.7	7972.6	8755.8	8798.6	8054.0
67.5°	943.1	941.8	987.3	1049.3	1296.1	1865.6	3419.6	7607.2	8401.5	8354.6	7735.5
70°	808.0	802.5	859.0	916.9	1085.2	1587.1	2661.2	6957.8	7825.1	7994.7	7101.2
72.5°	679.8	677.0	730.8	773.5	899.0	1296.1	1941.5	6017.4	7393.5	7149.4	6398.0
75°	532.2	518.5	575.0	615.0	708.7	1031.4	1323.7	4019.4	6222.8	6171.8	5374.8
77.5°	215.1	249.6	297.8	333.7	395.7	584.6	692.2	1907.0	3969.8	4144.9	3738.1
80°	82.7	88.2	212.3	239.9	266.1	336.4	266.1	803.9	1566.4	1708.4	2164.8
82.5°	46.9	52.4	104.8	100.7	99.3	85.5	99.3	394.4	817.7	896.3	1045.2
85°	26.2	29.0	42.7	46.9	40.0	34.5	30.3	103.4	204.1	193.0	216.5
87.5°	4.1	5.5	6.9	6.9	4.1	4.1	4.1	5.5	5.5	5.5	6.9
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: P509405
 CATALOG NUMBER: VERD-CA2-90-730-U-T2

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2331.7	2331.7	2331.7	2331.7	2331.7	2331.7	2331.7	2331.7	2331.7	2331.7	2331.7
2.5°	2319.3	2304.1	2288.9	2271.0	2248.9	2235.2	2229.6	2236.5	2255.8	2232.4	2213.1
5°	2311.0	2290.3	2255.8	2221.4	2193.8	2170.3	2138.6	2135.9	2141.4	2131.7	2106.9
7.5°	2328.9	2298.6	2228.3	2204.8	2146.9	2091.7	2073.8	2066.9	2050.4	2031.1	2007.6
10°	2364.8	2302.7	2231.0	2162.1	2108.3	2049.0	1980.1	1981.4	1974.5	1952.5	1930.4
12.5°	2382.7	2309.6	2204.8	2131.7	2049.0	1975.9	1908.4	1878.0	1890.4	1872.5	1849.1
15°	2415.8	2338.6	2195.2	2087.6	1974.5	1891.8	1840.8	1796.7	1769.1	1773.2	1759.4
17.5°	2477.8	2364.8	2170.3	2039.4	1916.6	1818.7	1720.8	1716.7	1675.3	1651.9	1631.2
20°	2542.6	2411.6	2167.6	1987.0	1822.9	1701.5	1622.9	1578.8	1554.0	1534.7	1519.5
22.5°	2626.8	2476.5	2177.2	1956.6	1738.8	1602.2	1501.6	1442.3	1402.3	1388.5	1377.5
25°	2745.3	2557.8	2203.4	1902.8	1650.5	1493.3	1356.8	1294.8	1249.3	1238.2	1230.0
27.5°	2908.0	2661.2	2229.6	1844.9	1547.1	1340.3	1195.5	1134.8	1083.8	1082.4	1067.2
30°	3164.5	2819.8	2239.3	1793.9	1436.8	1176.2	1031.4	974.9	936.3	921.1	932.1
32.5°	3643.0	3170.0	2300.0	1715.3	1297.5	1016.2	893.5	848.0	805.3	788.7	799.7
35°	4160.1	3589.2	2402.0	1661.5	1144.5	864.6	780.4	726.7	674.3	666.0	661.9
37.5°	4539.2	3971.1	2595.0	1573.3	999.7	772.2	661.9	617.7	587.4	570.9	586.0
40°	4969.5	4288.3	2741.2	1479.5	852.1	674.3	551.5	537.8	524.0	512.9	529.5
42.5°	5310.0	4615.1	2914.9	1355.4	733.6	572.2	490.9	501.9	508.8	503.3	504.7
45°	5623.0	4857.8	2926.0	1166.5	626.0	496.4	473.0	495.0	511.6	508.8	507.4
47.5°	5929.1	5147.3	2952.2	966.6	548.8	477.1	474.3	490.9	512.9	517.1	517.1
50°	6244.9	5367.9	2912.2	777.7	519.8	479.8	478.5	477.1	504.7	506.0	510.2
52.5°	6482.1	5547.2	2723.3	642.6	518.5	488.1	485.4	471.6	484.0	493.6	486.7
55°	6733.0	5770.6	2484.7	591.5	515.7	490.9	501.9	478.5	470.2	461.9	470.2
57.5°	6971.6	5926.4	2171.7	561.2	504.7	486.7	508.8	477.1	459.2	435.7	427.5
60°	7155.0	5962.2	1822.9	529.5	490.9	477.1	478.5	467.4	444.0	415.0	402.6
62.5°	7217.0	5982.9	1533.3	499.2	463.3	461.9	450.9	446.8	437.1	419.2	413.7
65°	7164.6	5748.5	1224.4	461.9	439.9	441.2	424.7	410.9	388.8	359.9	357.1
67.5°	6804.7	5336.2	939.0	415.0	404.0	417.8	399.9	376.4	351.6	332.3	335.1
70°	6188.4	4848.1	659.1	350.2	362.6	387.5	380.6	350.2	322.7	306.1	308.9
72.5°	5503.1	4107.7	448.1	273.0	295.1	347.5	347.5	326.8	299.2	277.2	271.6
75°	4340.7	3226.6	289.6	180.6	194.4	284.0	307.5	275.8	245.4	231.7	226.1
77.5°	2946.6	2101.4	184.8	103.4	129.6	186.1	242.7	246.8	290.9	292.3	279.9
80°	1731.9	1202.4	113.1	60.7	64.8	107.6	194.4	244.1	308.9	217.9	199.9
82.5°	861.8	512.9	51.0	37.2	38.6	53.8	104.8	279.9	238.5	136.5	131.0
85°	191.7	84.1	20.7	19.3	22.1	27.6	53.8	231.7	146.2	110.3	107.6
87.5°	6.9	5.5	5.5	5.5	4.1	4.1	11.0	75.8	57.9	48.3	45.5
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)