

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: P509164

Luminaire Tested: **VERD-CA2-120-730-U-T2-HSS**

Issue Date: 3/4/2021

Test Information

Test Method: LM-79-08
Report Number: P509164
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-CA2-120-730-U-T2-HSS
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 1120mA LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15317 lumens
Efficiency: N/A
Efficacy: 124.8 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

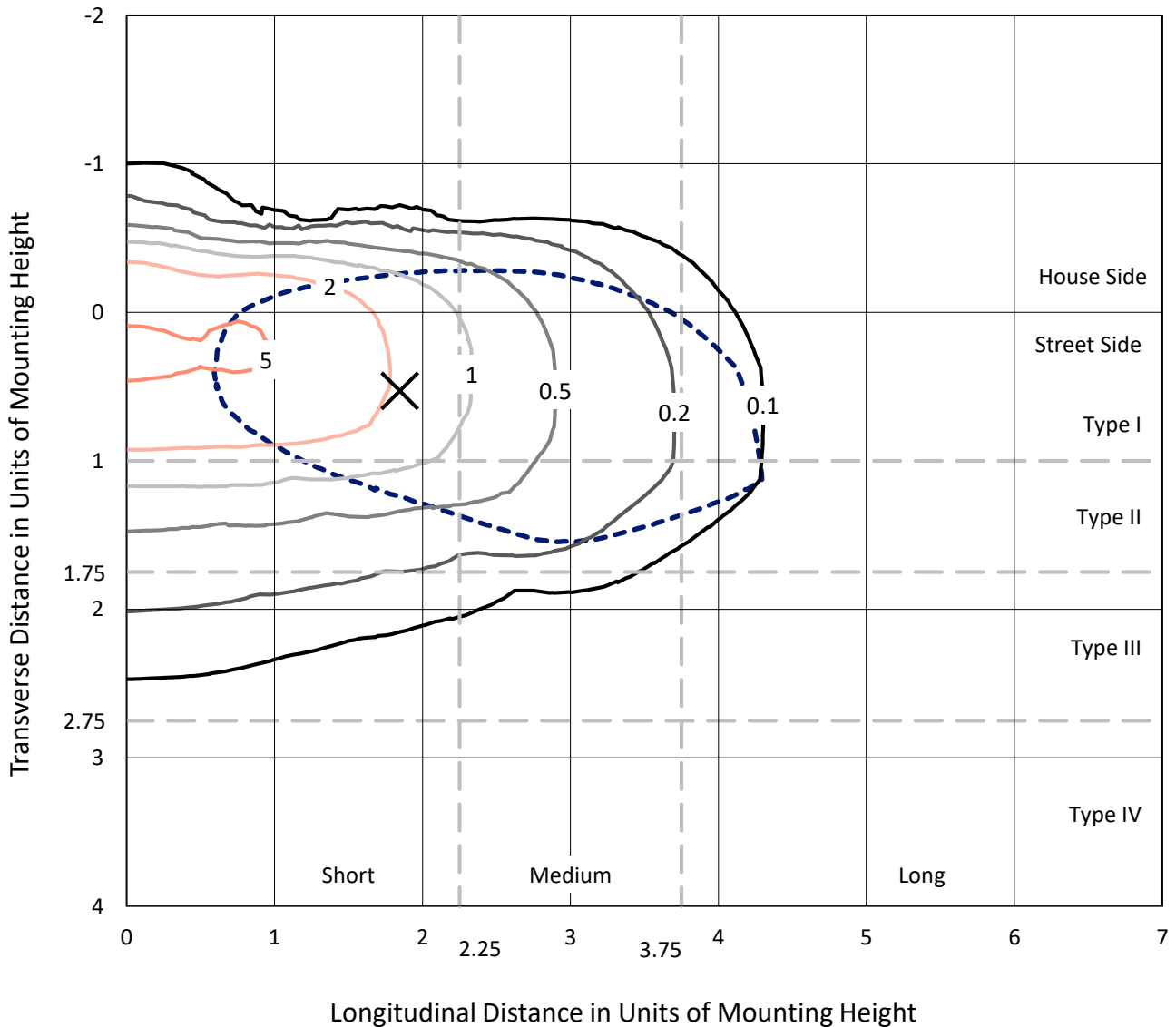
Input Watts (W): 122.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

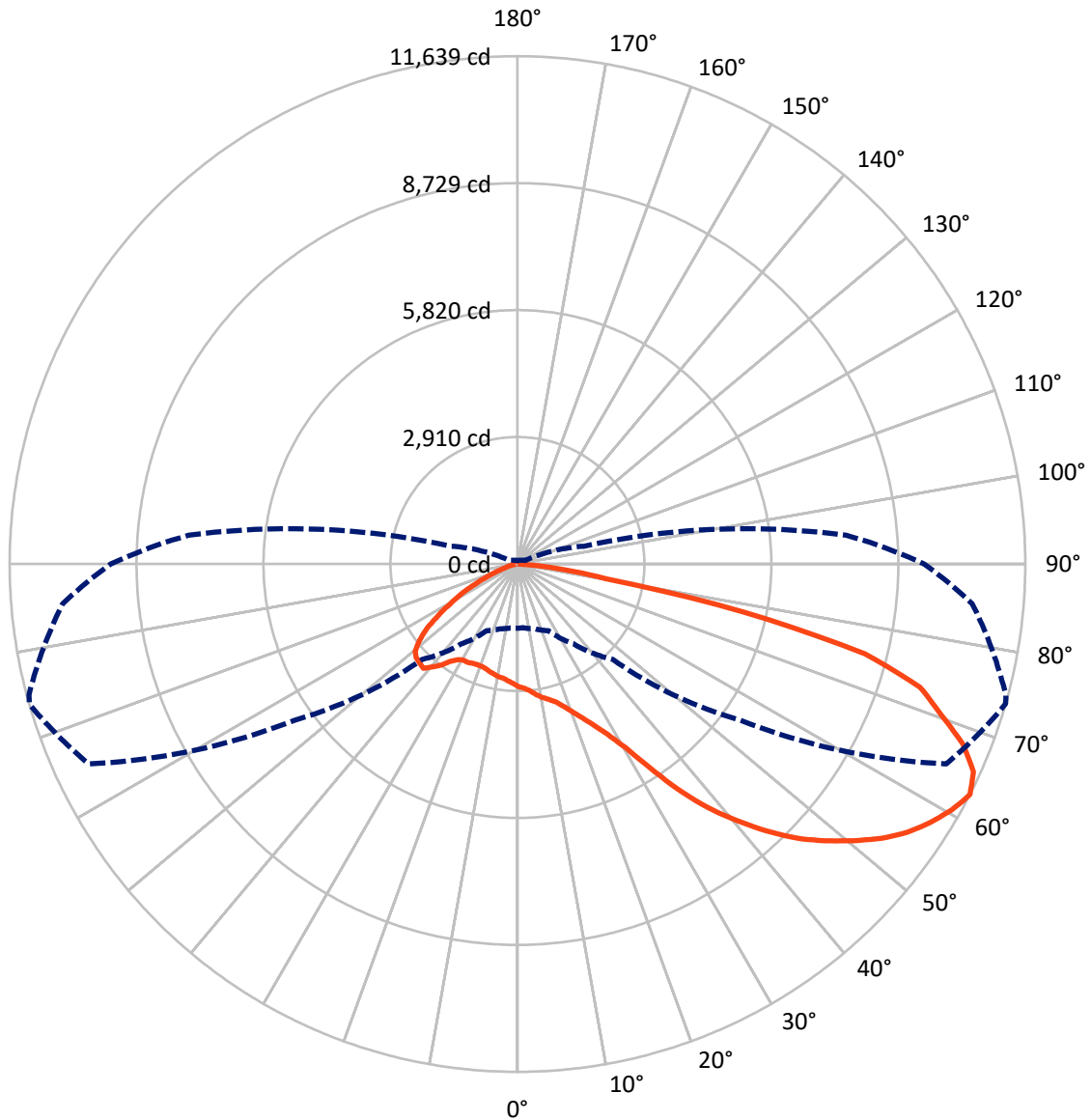
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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

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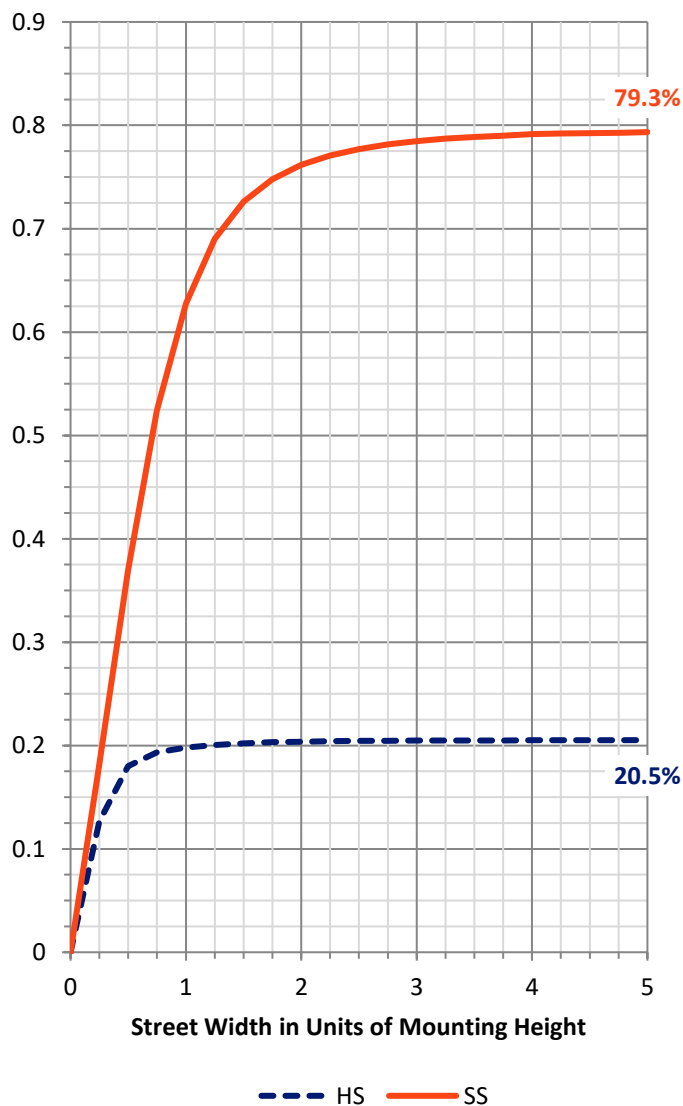
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3180.7	0.0	3180.7
	% Fixture	20.8	0.0	20.8
Street Side	Lumens	12136.3	0.0	12136.3
	% Fixture	79.2	0.0	79.2
Total	Lumens	15317.0	0.0	15317.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	267.6	1.7
10°-20°	808.4	5.3
20°-30°	1364.9	8.9
30°-40°	2030.1	13.3
40°-50°	2747.6	17.9
50°-60°	3161.1	20.6
60°-70°	3051.3	19.9
70°-80°	1727.6	11.3
80°-90°	158.5	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°	15317.0	100.0
0°-180°	15317.0	100.0



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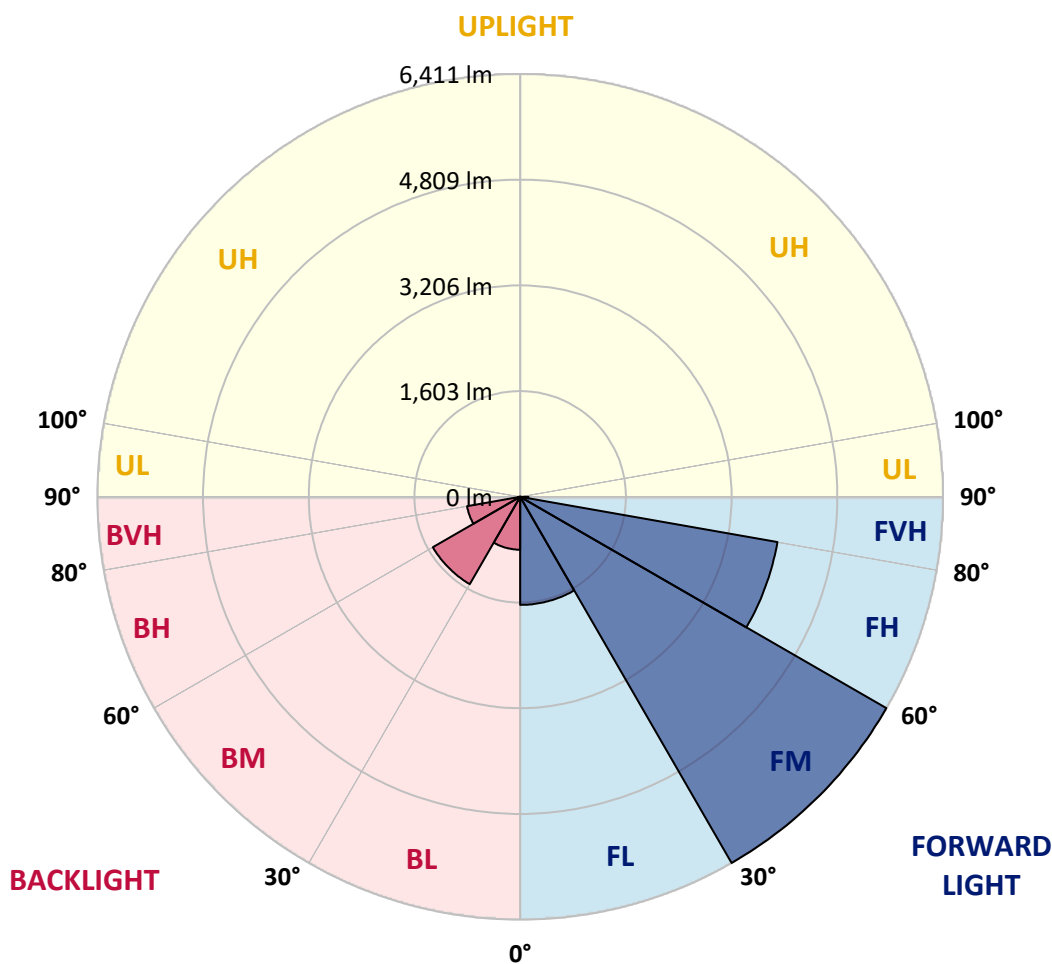
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1638.9	10.7			
FM (30°-60°)	6411.4	41.9			
FH (60°-80°)	3961.2	25.9			G2/5000
FVH (80°-90°)	124.9	0.8			G2/225
BL (0°-30°)	802.0	5.2	B2/1000		
BM (30°-60°)	1527.4	10.0	B2/2500		
BH (60°-80°)	817.7	5.3	B2/1000		G2/1000
BVH (80°-90°)	33.6	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°	74°	75°	85°
0°	2807.5	2807.5	2807.5	2807.5	2807.5	2807.5	2807.5	2807.5	2807.5	2807.5	2807.5
2.5°	3061.3	3041.2	3024.8	3015.6	2990.1	2968.2	2924.4	2878.7	2847.7	2845.9	2816.7
5°	3189.0	3187.2	3150.7	3143.4	3108.7	3097.8	3054.0	2988.2	2911.6	2902.5	2824.0
7.5°	3357.0	3336.9	3296.7	3280.3	3240.2	3211.0	3152.5	3090.5	3013.8	3004.7	2867.8
10°	3519.5	3508.5	3484.8	3486.6	3430.0	3375.2	3287.6	3181.7	3108.7	3097.8	2929.8
12.5°	3707.5	3672.8	3632.6	3610.7	3554.1	3519.5	3435.5	3296.7	3181.7	3170.8	3002.9
15°	3837.1	3818.8	3782.3	3767.7	3712.9	3656.4	3559.6	3451.9	3278.5	3267.5	3077.7
17.5°	3975.8	3966.7	3924.7	3915.6	3862.6	3795.1	3720.3	3579.7	3428.2	3409.9	3167.1
20°	4068.9	4052.5	4047.0	4045.2	4030.6	3988.6	3893.7	3784.1	3616.2	3583.3	3282.1
22.5°	4193.0	4176.6	4183.9	4191.2	4211.3	4193.0	4131.0	4001.4	3835.3	3806.0	3462.9
25°	4205.8	4194.9	4244.2	4346.4	4386.5	4406.6	4359.2	4258.8	4098.1	4059.8	3678.3
27.5°	4240.5	4224.1	4277.0	4384.7	4565.4	4596.5	4605.6	4558.1	4423.0	4401.1	3970.3
30°	4178.4	4167.5	4249.6	4434.0	4636.6	4811.9	4879.4	4945.1	4883.1	4844.7	4377.4
32.5°	4026.9	4034.2	4141.9	4386.5	4760.8	5030.9	5206.2	5438.0	5549.3	5542.0	5098.5
35°	3806.0	3802.4	3983.1	4328.1	4771.7	5237.2	5563.9	6034.9	6347.1	6325.2	5856.0
37.5°	3618.0	3608.9	3813.3	4180.3	4780.8	5401.5	5983.8	6686.6	7082.7	7060.8	6474.8
40°	3388.0	3402.6	3585.2	4008.7	4704.2	5523.8	6348.9	7320.0	7725.3	7725.3	7115.6
42.5°	3156.2	3169.0	3349.7	3769.5	4592.8	5613.2	6692.1	7951.6	8364.2	8373.3	7555.5
45°	2953.6	2959.0	3123.3	3501.2	4392.0	5627.8	7007.9	8585.1	8962.9	8939.2	8057.5
47.5°	2597.6	2657.8	2915.2	3260.2	4118.2	5563.9	7274.4	9149.1	9477.7	9428.4	8535.8
50°	2070.1	2070.1	2426.0	3030.2	3804.2	5394.2	7484.3	9663.9	9966.9	9921.3	8953.8
52.5°	1902.1	1905.8	2015.3	2707.1	3486.6	5102.1	7604.8	10175.0	10447.0	10416.0	9349.9
55°	1812.7	1818.1	1869.3	2194.2	3198.2	4654.9	7608.4	10571.1	10854.1	10784.7	9684.0
57.5°	1677.6	1668.5	1776.2	1955.0	2860.5	4078.0	7429.5	10877.8	11169.9	11116.9	9957.8
60°	1582.7	1568.1	1641.1	1801.7	2497.2	3481.1	6953.1	11100.5	11440.0	11471.1	10226.1
62.5°	1471.3	1465.8	1535.2	1686.7	2228.9	3090.5	6237.5	10841.3	11639.0	11589.7	10463.4
65°	1360.0	1349.0	1414.7	1533.4	1969.7	2771.0	5516.5	10458.0	11485.7	11529.5	10510.9
67.5°	1213.9	1212.1	1274.2	1361.8	1686.7	2413.2	4472.3	9954.1	11011.1	10980.0	10080.1
70°	1036.9	1036.9	1098.9	1175.6	1409.2	2059.1	3433.7	9090.7	10280.9	10461.6	9342.6
72.5°	837.9	841.5	903.6	991.2	1162.8	1677.6	2531.9	7906.0	9647.5	9357.2	8302.1
75°	447.2	401.6	708.3	797.7	938.3	1338.0	1732.3	5140.4	8227.3	8026.5	6887.4
77.5°	107.7	113.2	222.7	414.4	500.2	741.1	852.5	2380.4	5304.7	5624.2	4912.3
80°	71.2	78.5	120.5	293.9	334.1	394.3	337.7	1036.9	2057.3	2192.4	2851.3
82.5°	36.5	40.2	74.8	116.8	118.7	102.2	127.8	522.1	1088.0	1179.2	1370.9
85°	12.8	20.1	38.3	51.1	47.5	38.3	31.0	129.6	257.4	286.6	297.5
87.5°	0.0	0.0	5.5	5.5	3.7	3.7	5.5	5.5	7.3	5.5	5.5
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°	2807.5	2807.5	2807.5	2807.5	2807.5	2807.5	2807.5	2807.5	2807.5	2807.5	2807.5
2.5°	2792.9	2772.8	2741.8	2709.0	2674.3	2645.1	2628.6	2637.8	2648.7	2614.0	2601.3
5°	2787.5	2752.8	2694.4	2625.0	2572.0	2519.1	2457.0	2442.4	2427.8	2409.6	2389.5
7.5°	2813.0	2761.9	2643.2	2579.3	2468.0	2369.4	2314.7	2274.5	2238.0	2205.1	2185.1
10°	2860.5	2765.5	2632.3	2502.7	2380.4	2259.9	2141.2	2117.5	2110.2	2062.7	2028.1
12.5°	2891.5	2774.7	2594.0	2437.0	2261.7	2132.1	2013.5	1945.9	1940.4	1918.5	1894.8
15°	2940.8	2811.2	2568.4	2354.8	2141.2	2004.3	1894.8	1807.2	1763.4	1761.6	1743.3
17.5°	3030.2	2853.2	2528.2	2270.9	2044.5	1891.2	1734.2	1701.3	1628.3	1586.3	1575.4
20°	3121.5	2915.2	2517.3	2186.9	1918.5	1728.7	1608.2	1516.9	1458.5	1414.7	1387.3
22.5°	3240.2	3004.7	2520.9	2137.6	1816.3	1606.4	1449.4	1314.3	1206.6	1153.7	1128.1
25°	3411.8	3108.7	2548.3	2062.7	1695.8	1475.0	1246.8	1067.9	916.4	878.0	859.8
27.5°	3630.8	3254.8	2586.7	1986.1	1584.5	1297.9	1002.2	801.4	675.4	646.2	628.0
30°	3966.7	3473.8	2592.1	1938.6	1484.1	1067.9	750.3	593.3	494.7	463.7	467.3
32.5°	4598.3	3943.0	2665.1	1840.0	1305.2	819.6	551.3	432.6	357.8	346.8	365.1
35°	5332.1	4496.1	2805.7	1788.9	1100.7	593.3	394.3	317.6	270.2	284.8	292.1
37.5°	5804.9	4983.5	3030.2	1672.1	861.6	436.3	275.6	248.3	239.1	248.3	264.7
40°	6356.2	5379.6	3221.9	1553.5	611.5	299.4	220.9	226.4	215.4	213.6	220.9
42.5°	6803.4	5786.7	3426.4	1358.1	425.3	222.7	202.6	206.3	199.0	189.8	189.8
45°	7228.8	6139.0	3424.5	1095.3	281.1	197.1	186.2	193.5	191.7	178.9	177.1
47.5°	7601.1	6494.9	3426.4	795.9	213.6	180.7	173.4	180.7	180.7	169.8	167.9
50°	8063.0	6790.6	3371.6	509.3	195.3	167.9	166.1	164.3	171.6	157.0	153.3
52.5°	8345.9	7006.0	3125.2	343.2	180.7	158.8	155.2	151.5	155.2	142.4	142.4
55°	8656.2	7274.4	2803.9	272.0	171.6	147.9	146.0	142.4	142.4	127.8	129.6
57.5°	8994.0	7493.4	2371.2	239.1	164.3	140.6	136.9	131.4	124.1	113.2	111.4
60°	9238.6	7539.1	1940.4	217.2	158.8	136.9	122.3	115.0	102.2	94.9	93.1
62.5°	9320.7	7562.8	1573.5	195.3	149.7	126.0	109.5	96.7	82.1	76.7	76.7
65°	9253.2	7289.0	1179.2	177.1	138.7	116.8	96.7	78.5	63.9	58.4	56.6
67.5°	8818.7	6785.2	858.0	158.8	122.3	105.9	84.0	63.9	51.1	45.6	45.6
70°	8028.3	6191.9	580.5	133.3	105.9	93.1	78.5	51.1	42.0	36.5	34.7
72.5°	7166.7	5250.0	370.6	107.7	82.1	73.0	56.6	43.8	34.7	27.4	27.4
75°	5668.0	4123.7	257.4	78.5	58.4	54.8	43.8	36.5	29.2	21.9	21.9
77.5°	3944.8	2679.7	202.6	60.2	40.2	36.5	32.9	27.4	23.7	18.3	16.4
80°	2287.3	1611.9	122.3	40.2	27.4	23.7	21.9	21.9	18.3	12.8	12.8
82.5°	1135.4	671.8	52.9	25.6	18.3	16.4	14.6	12.8	12.8	9.1	9.1
85°	222.7	115.0	20.1	12.8	9.1	9.1	7.3	7.3	5.5	3.7	3.7
87.5°	7.3	5.5	5.5	5.5	3.7	3.7	1.8	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)