

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: P509166

Luminaire Tested: **VERD-CA2-120-730-U-T3-HSS**

Issue Date: 3/4/2021

Test Information

Test Method: LM-79-08
Report Number: P509166
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-139-5)
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-T3-HSS
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 1120mA LEDS AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15772 lumens
Efficiency: N/A
Efficacy: 128.5 lumens/watt
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

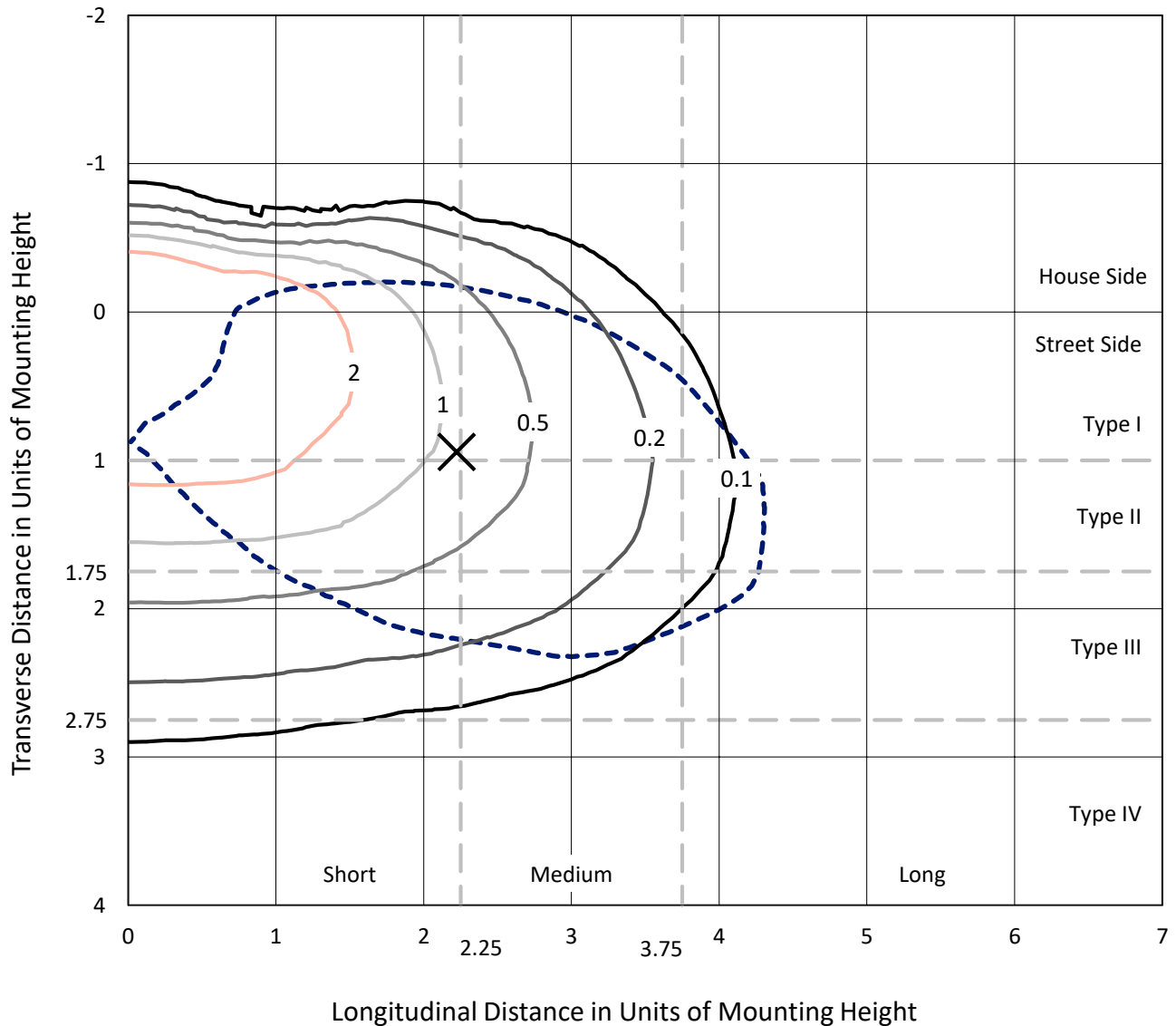
Input Watts (W): 122.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

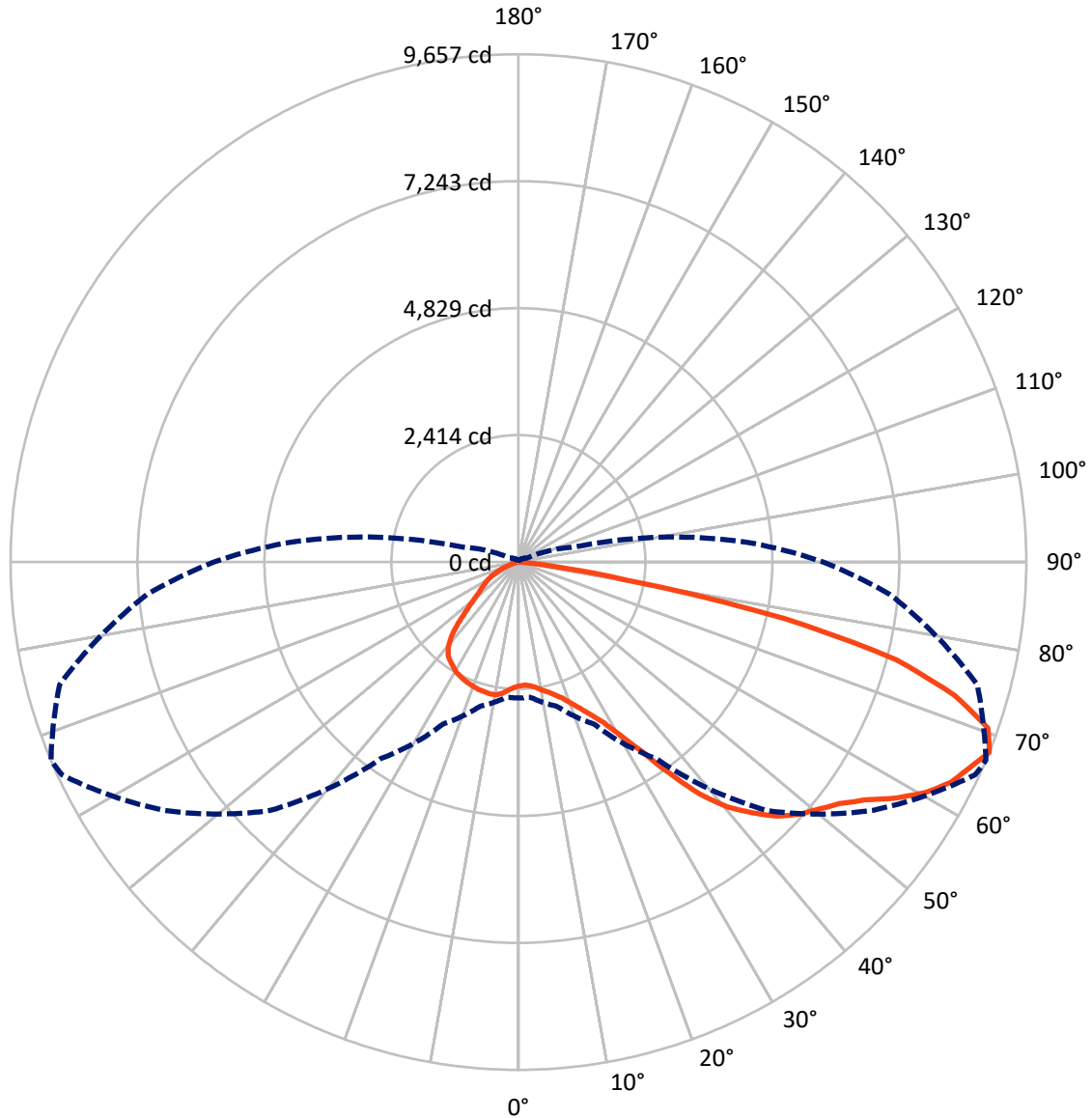
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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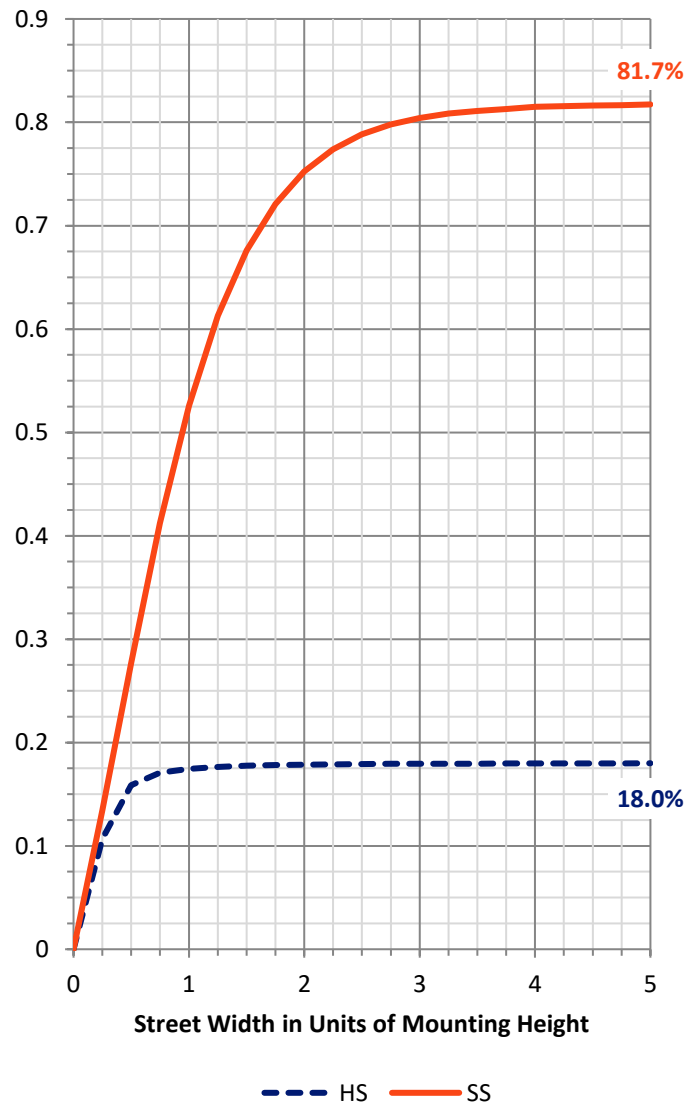
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2873.8	0.0	2873.8
	% Fixture	18.2	0.0	18.2
Street Side	Lumens	12898.2	0.0	12898.2
	% Fixture	81.8	0.0	81.8
Total	Lumens	15772.0	0.0	15772.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	235.9	1.5
10°-20°	738.9	4.7
20°-30°	1260.9	8.0
30°-40°	1962.6	12.4
40°-50°	2770.5	17.6
50°-60°	3336.8	21.2
60°-70°	3448.4	21.9
70°-80°	1899.6	12.0
80°-90°	118.4	0.8
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°	15772.0	100.0
0°-180°	15772.0	100.0



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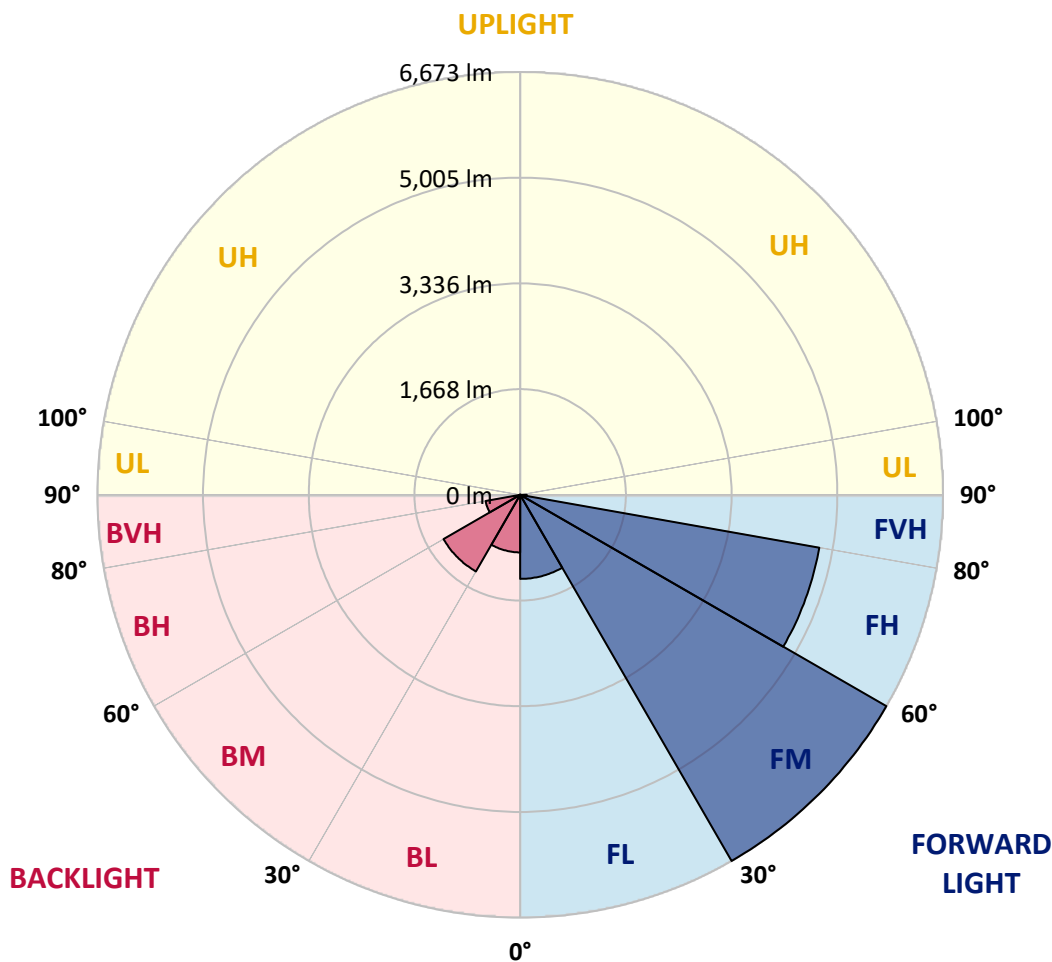
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1327.1	8.4			
FM	(30°-60°)	6672.9	42.3			
FH	(60°-80°)	4794.1	30.4			G2/5000
FVH	(80°-90°)	104.1	0.7			G2/225
BL	(0°-30°)	908.6	5.8	B2/1000		
BM	(30°-60°)	1397.0	8.9	B2/2500		
BH	(60°-80°)	553.9	3.5	B2/1000		G2/1000
BVH	(80°-90°)	14.3	0.1			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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	2354.9	2354.9	2354.9	2354.9	2354.9	2354.9	2354.9	2354.9	2354.9	2354.9	2354.9
2.5°	2333.0	2356.8	2356.8	2349.5	2353.1	2336.7	2325.7	2338.5	2342.2	2353.1	2367.7
5°	2378.7	2406.1	2404.2	2391.4	2380.5	2365.9	2351.3	2362.2	2364.1	2367.7	2386.0
7.5°	2475.4	2501.0	2490.0	2477.2	2471.8	2438.9	2407.9	2406.1	2409.7	2420.7	2440.7
10°	2601.4	2621.5	2617.8	2597.7	2583.1	2533.8	2490.0	2473.6	2475.4	2479.1	2513.8
12.5°	2743.8	2771.2	2751.1	2723.7	2698.1	2626.9	2566.7	2543.0	2539.3	2548.4	2577.7
15°	2884.3	2913.6	2898.9	2882.5	2824.1	2745.6	2668.9	2630.6	2626.9	2626.9	2645.2
17.5°	3068.7	3079.7	3070.5	3046.8	2981.1	2882.5	2791.2	2734.6	2725.5	2731.0	2734.6
20°	3273.2	3293.3	3282.3	3256.8	3161.8	3055.9	2940.9	2873.4	2867.9	2873.4	2838.7
22.5°	3521.5	3528.8	3523.3	3481.3	3395.5	3254.9	3103.4	3026.7	3026.7	3032.2	2961.0
25°	3733.2	3777.0	3764.3	3713.1	3612.7	3490.4	3307.9	3212.9	3218.4	3222.1	3123.5
27.5°	3979.7	4016.2	4007.0	3968.7	3903.0	3747.8	3528.8	3466.7	3461.2	3455.7	3302.4
30°	4215.2	4242.5	4260.8	4251.7	4198.7	4052.7	3857.4	3811.7	3826.3	3815.4	3550.7
32.5°	4406.8	4454.3	4505.4	4516.4	4501.8	4372.2	4229.8	4253.5	4271.7	4401.4	4242.5
35°	4571.1	4622.3	4706.2	4793.9	4810.3	4759.2	4688.0	4861.4	4914.3	5179.0	5011.1
37.5°	4742.7	4786.6	4870.5	5009.3	5100.5	5127.9	5197.3	5471.1	5598.9	5827.1	5514.9
40°	4821.2	4865.0	5011.1	5186.3	5376.2	5529.5	5668.3	5985.9	6128.3	6197.7	5792.4
42.5°	4742.7	4784.7	5020.2	5350.6	5608.0	5947.6	6104.6	6422.2	6517.2	6509.9	6133.8
45°	4666.1	4706.2	4952.7	5392.6	5818.0	6332.8	6466.0	6822.0	6891.4	6803.8	6331.0
47.5°	4567.5	4622.3	4877.8	5367.1	6006.0	6681.5	6803.8	7106.8	7168.9	7039.3	6557.3
50°	4447.0	4494.5	4792.0	5326.9	6130.1	6942.5	7072.1	7373.3	7389.8	7269.3	6761.8
52.5°	4308.3	4333.8	4656.9	5246.6	6237.8	7134.2	7282.1	7597.9	7636.2	7603.3	7004.6
55°	4102.0	4147.6	4494.5	5120.6	6245.2	7234.6	7444.5	7915.5	7984.9	7908.2	7152.4
57.5°	3884.7	3934.0	4293.7	4945.4	6137.4	7298.5	7740.3	8328.1	8465.0	8218.6	7272.9
60°	3645.6	3689.4	4043.6	4686.1	5945.8	7389.8	8045.1	8811.9	8897.7	8483.3	7353.3
62.5°	3368.1	3402.8	3740.5	4372.2	5651.9	7366.0	8308.0	9200.7	9228.1	8720.6	7345.9
65°	3030.4	3028.6	3342.6	3934.0	5169.9	7176.2	8355.5	9396.0	9428.9	8873.9	7280.2
67.5°	2585.0	2579.5	2842.4	3399.1	4562.0	6681.5	8229.5	9578.6	9657.1	9034.6	7088.5
70°	2026.3	2033.6	2232.6	2729.2	3702.2	5927.5	7897.3	9456.3	9472.7	8726.1	6592.0
72.5°	1433.0	1429.4	1564.5	1900.4	2736.5	4627.7	6940.7	8622.0	8673.1	7963.0	5743.1
75°	657.2	684.6	1022.3	1161.0	1652.1	3150.9	5710.3	7325.9	7424.4	6854.9	4478.0
77.5°	122.3	126.0	219.1	441.8	646.2	1137.3	3411.9	4961.8	5168.1	4671.5	2522.9
80°	96.8	98.6	129.6	211.8	270.2	511.1	1122.7	2044.6	2090.2	1821.9	909.1
82.5°	71.2	73.0	96.8	136.9	126.0	220.9	467.3	595.1	631.6	587.8	361.5
85°	42.0	43.8	56.6	67.5	65.7	87.6	78.5	71.2	63.9	52.9	45.6
87.5°	11.0	14.6	23.7	23.7	18.3	16.4	14.6	12.8	14.6	12.8	12.8
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°	2354.9	2354.9	2354.9	2354.9	2354.9	2354.9	2354.9	2354.9	2354.9	2354.9	2354.9
2.5°	2371.4	2369.5	2375.0	2389.6	2402.4	2404.2	2422.5	2446.2	2435.3	2466.3	2455.3
5°	2396.9	2402.4	2422.5	2446.2	2468.1	2486.4	2513.8	2553.9	2541.1	2570.4	2559.4
7.5°	2455.3	2464.5	2495.5	2519.2	2544.8	2539.3	2563.0	2586.8	2557.6	2588.6	2574.0
10°	2524.7	2535.7	2553.9	2563.0	2555.7	2552.1	2546.6	2543.0	2504.6	2526.5	2517.4
12.5°	2586.8	2588.6	2583.1	2559.4	2543.0	2499.2	2479.1	2469.9	2411.5	2428.0	2417.0
15°	2647.0	2621.5	2594.1	2539.3	2493.7	2426.1	2382.3	2344.0	2289.2	2311.1	2289.2
17.5°	2712.7	2674.4	2603.2	2522.9	2429.8	2331.2	2260.0	2197.9	2115.8	2112.1	2104.8
20°	2796.7	2740.1	2625.1	2493.7	2360.4	2212.5	2099.4	1995.3	1871.2	1854.7	1821.9
22.5°	2902.6	2818.6	2658.0	2455.3	2274.6	2088.4	1896.7	1725.1	1568.1	1518.8	1500.6
25°	3024.9	2920.9	2676.2	2420.7	2192.5	1907.7	1646.6	1423.9	1239.5	1186.6	1172.0
27.5°	3178.3	3050.5	2703.6	2369.5	2061.0	1686.8	1347.2	1100.8	936.5	850.7	837.9
30°	3390.0	3194.7	2742.0	2318.4	1902.2	1427.6	1044.2	757.6	602.4	551.3	542.2
32.5°	3966.9	3537.9	2783.9	2227.2	1692.3	1139.1	693.7	483.8	379.7	337.7	334.1
35°	4698.9	4165.9	2937.3	2123.1	1438.5	790.5	430.8	288.4	231.8	215.4	215.4
37.5°	5171.7	4653.3	3192.9	1977.1	1104.4	483.8	259.2	188.0	177.1	175.3	175.3
40°	5420.0	4868.7	3377.2	1776.2	739.3	281.1	182.6	162.5	158.8	155.2	155.2
42.5°	5735.8	5053.1	3536.1	1504.2	429.0	197.2	160.6	147.9	142.4	138.7	138.7
45°	5911.1	5253.9	3435.7	1181.1	244.6	177.1	147.9	133.3	127.8	127.8	127.8
47.5°	6082.7	5445.6	3307.9	848.9	208.1	162.5	138.7	124.1	118.7	122.3	122.3
50°	6278.0	5575.2	3105.2	635.3	197.2	151.5	126.0	113.2	109.5	115.0	115.0
52.5°	6460.6	5588.0	2780.3	507.5	182.6	140.6	116.8	104.1	100.4	104.1	104.1
55°	6513.5	5547.8	2687.2	403.4	173.4	129.6	109.5	96.8	87.6	87.6	85.8
57.5°	6500.7	5469.3	2460.8	341.4	162.5	118.7	100.4	85.8	74.8	71.2	71.2
60°	6456.9	5359.8	2221.7	297.6	151.5	109.5	89.5	73.0	62.1	58.4	58.4
62.5°	6402.1	5153.5	1884.0	259.2	140.6	105.9	74.8	60.2	52.9	49.3	49.3
65°	6172.1	4832.2	1507.9	220.9	129.6	93.1	65.7	52.9	45.6	42.0	42.0
67.5°	5790.6	4342.9	1089.8	188.0	120.5	78.5	58.4	45.6	38.3	36.5	34.7
70°	5221.0	3667.5	675.4	162.5	104.1	71.2	51.1	40.2	34.7	29.2	29.2
72.5°	4352.1	2871.6	354.2	127.8	82.1	60.2	45.6	36.5	29.2	25.6	23.7
75°	3059.6	1770.8	255.6	98.6	56.6	49.3	38.3	31.0	25.6	21.9	20.1
77.5°	1476.9	609.7	178.9	73.0	40.2	36.5	29.2	25.6	20.1	18.3	18.3
80°	540.4	346.9	127.8	52.9	32.9	29.2	21.9	20.1	16.4	14.6	14.6
82.5°	242.8	164.3	73.0	34.7	23.7	21.9	16.4	12.8	12.8	12.8	12.8
85°	40.2	34.7	23.7	16.4	12.8	11.0	11.0	9.1	9.1	9.1	9.1
87.5°	11.0	11.0	9.1	9.1	7.3	5.5	3.7	3.7	3.7	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

(END OF REPORT)