

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: P509180

Luminaire Tested: **VERD-CA2-120-750-U-T2-HSS**

Issue Date: 3/4/2021

Test Information

Test Method: LM-79-08
Report Number: P509180
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-CA2-120-750-U-T2-HSS
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 1120mA LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15886 lumens
Efficiency: N/A
Efficacy: 129.5 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

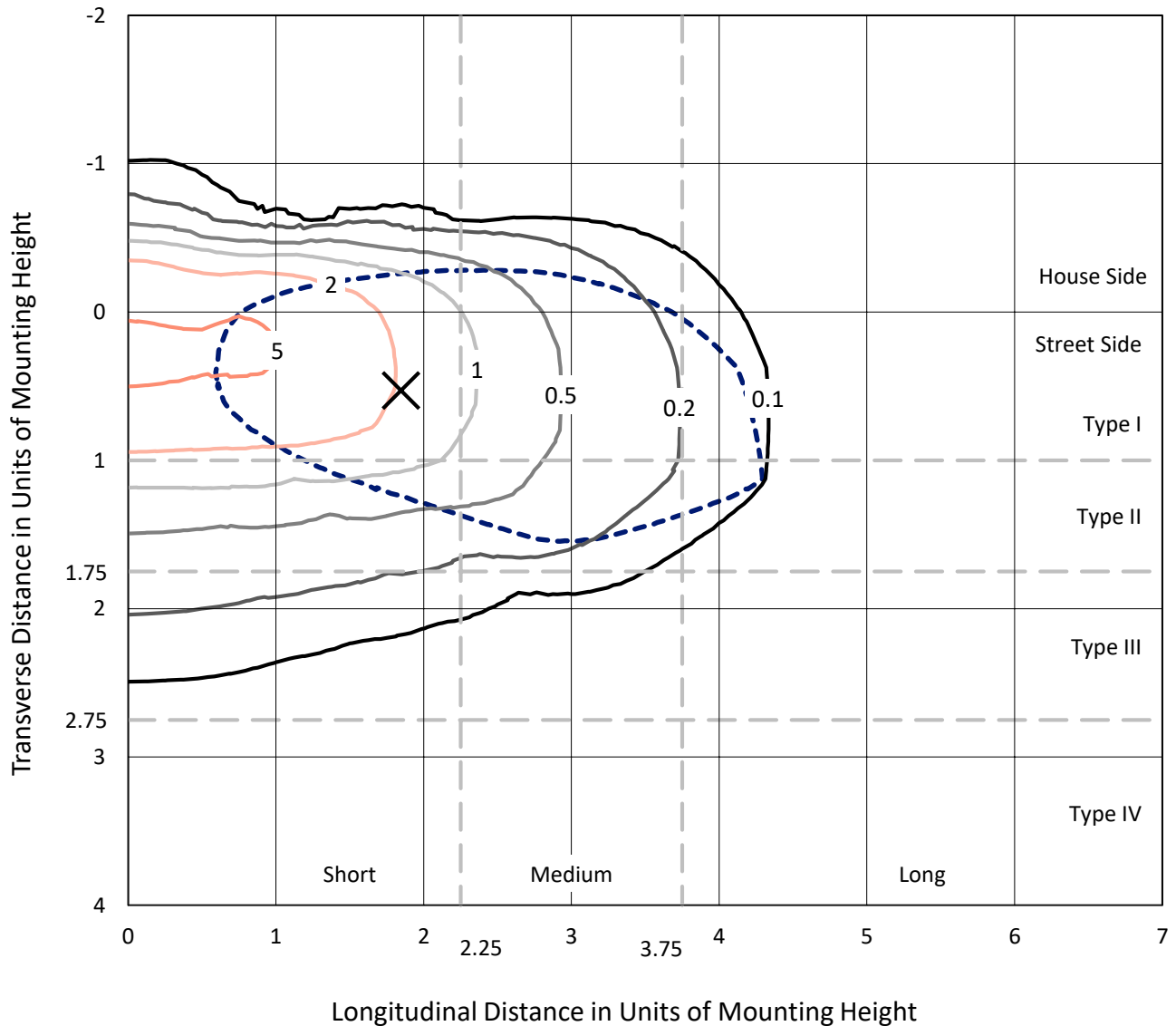
Input Watts (W): 122.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

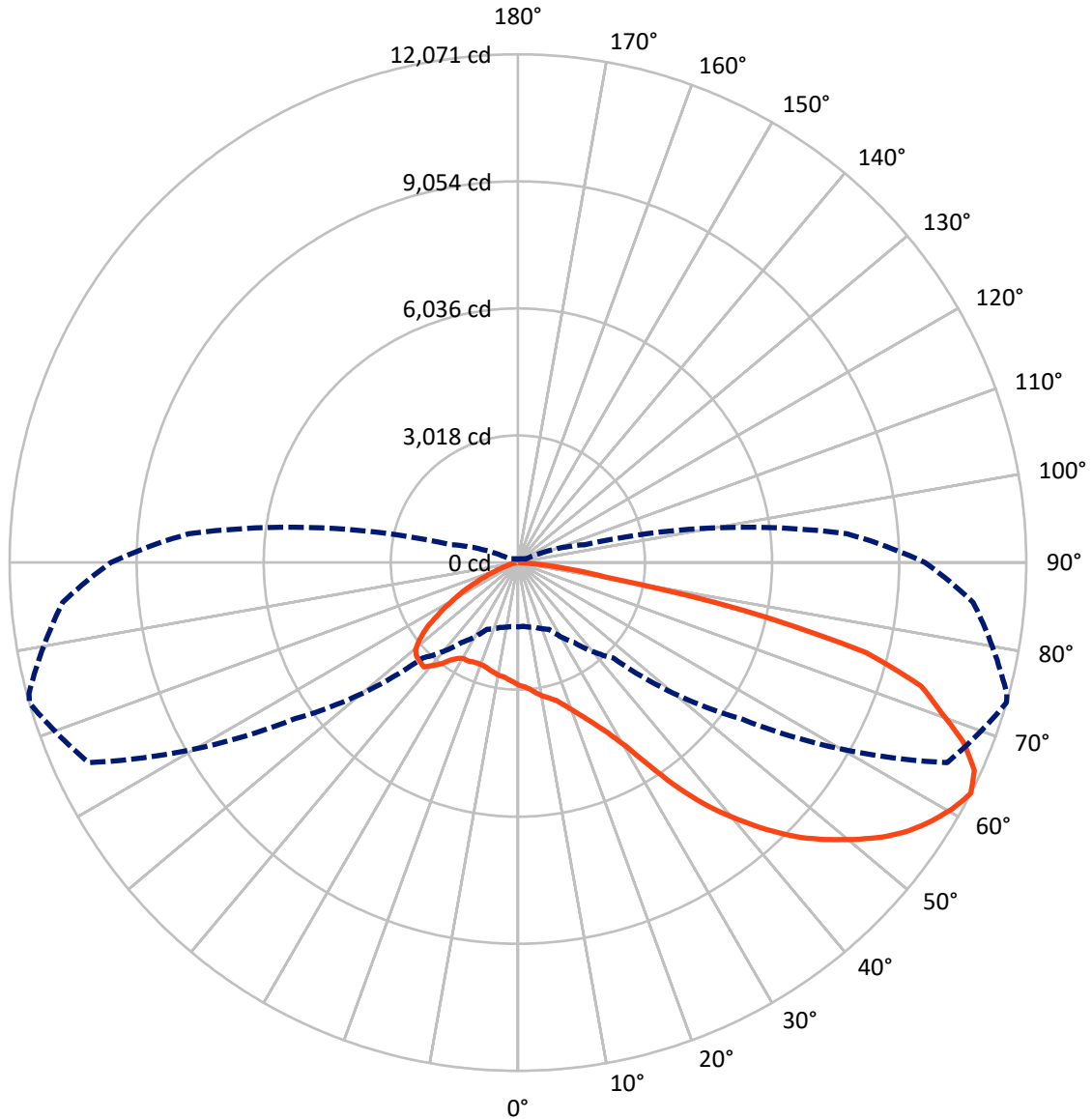
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 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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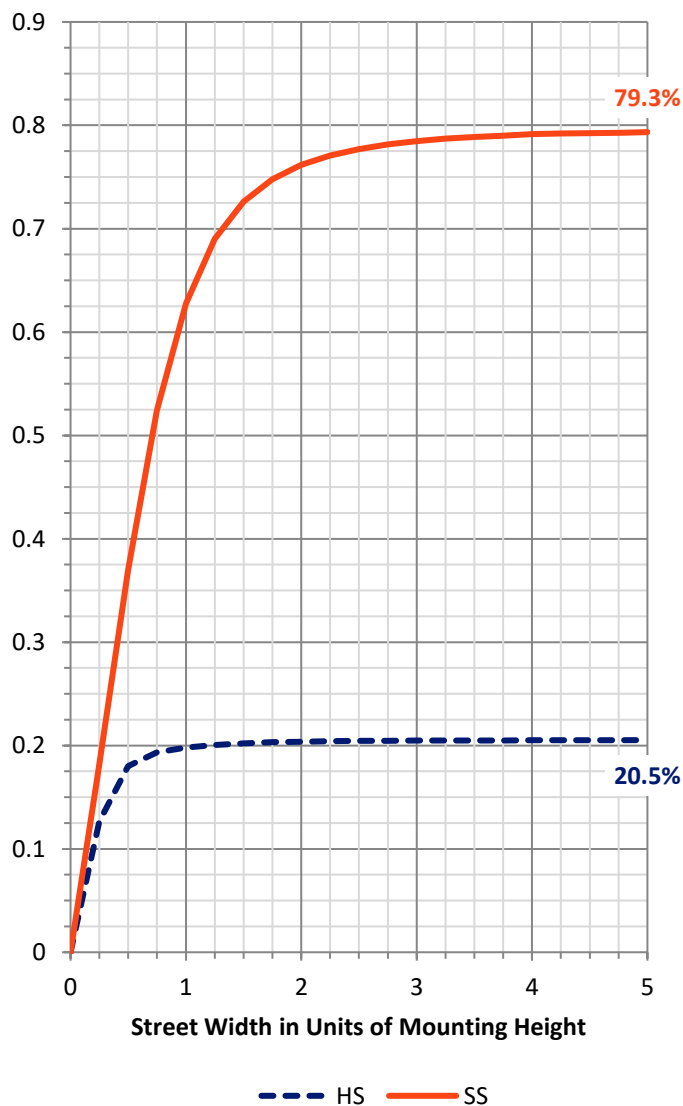
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3298.8	0.0	3298.8
	% Fixture	20.8	0.0	20.8
Street Side	Lumens	12587.2	0.0	12587.2
	% Fixture	79.2	0.0	79.2
Total	Lumens	15886.0	0.0	15886.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	277.6	1.7
10°-20°	838.4	5.3
20°-30°	1415.6	8.9
30°-40°	2105.5	13.3
40°-50°	2849.7	17.9
50°-60°	3278.5	20.6
60°-70°	3164.6	19.9
70°-80°	1791.7	11.3
80°-90°	164.4	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°	15886.0	100.0
0°-180°	15886.0	100.0



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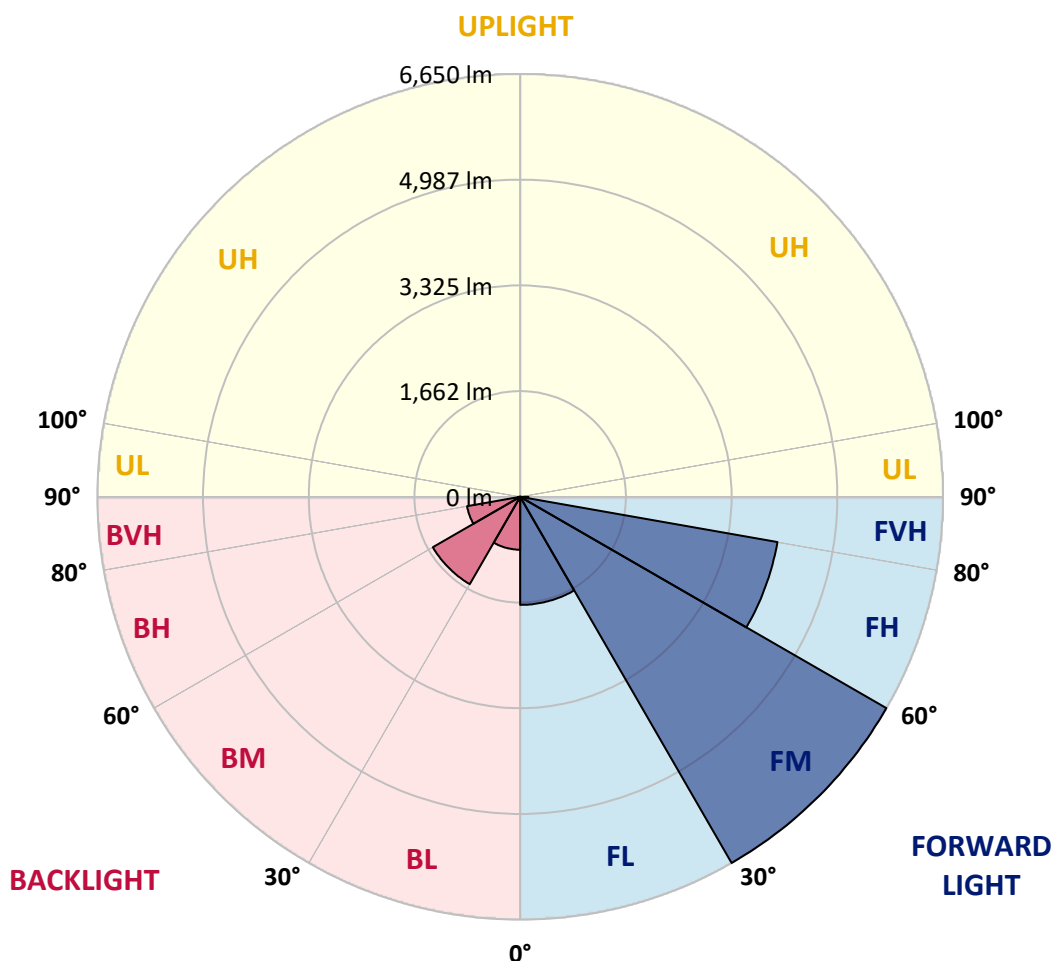
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1699.8	10.7			
FM (30°-60°)	6649.6	41.9			
FH (60°-80°)	4108.3	25.9			G2/5000
FVH (80°-90°)	129.5	0.8			G2/225
BL (0°-30°)	831.8	5.2	B2/1000		
BM (30°-60°)	1584.1	10.0	B2/2500		
BH (60°-80°)	848.0	5.3	B2/1000		G2/1000
BVH (80°-90°)	34.9	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°	2911.8	2911.8	2911.8	2911.8	2911.8	2911.8	2911.8	2911.8	2911.8	2911.8	2911.8
2.5°	3175.0	3154.2	3137.1	3127.7	3101.2	3078.4	3033.0	2985.7	2953.5	2951.6	2921.3
5°	3307.5	3305.6	3267.8	3260.2	3224.2	3212.9	3167.4	3099.3	3019.7	3010.3	2928.9
7.5°	3481.7	3460.9	3419.2	3402.2	3360.5	3330.2	3269.6	3205.3	3125.8	3116.3	2974.3
10°	3650.2	3638.8	3614.2	3616.1	3557.4	3500.6	3409.8	3299.9	3224.2	3212.9	3038.7
12.5°	3845.2	3809.2	3767.6	3744.9	3686.2	3650.2	3563.1	3419.2	3299.9	3288.6	3114.4
15°	3979.6	3960.7	3922.8	3907.7	3850.9	3792.2	3691.8	3580.1	3400.3	3388.9	3192.0
17.5°	4123.5	4114.0	4070.5	4061.0	4006.1	3936.1	3858.5	3712.7	3555.5	3536.6	3284.8
20°	4220.1	4203.0	4197.3	4195.5	4180.3	4136.8	4038.3	3924.7	3750.5	3716.5	3404.1
22.5°	4348.8	4331.8	4339.3	4346.9	4367.7	4348.8	4284.4	4150.0	3977.7	3947.4	3591.5
25°	4362.1	4350.7	4401.8	4507.8	4549.5	4570.3	4521.1	4417.0	4250.4	4210.6	3814.9
27.5°	4398.0	4381.0	4435.9	4547.6	4735.0	4767.2	4776.7	4727.5	4587.4	4564.6	4117.8
30°	4333.7	4322.3	4407.5	4598.7	4808.9	4990.6	5060.7	5128.8	5064.5	5024.7	4540.0
32.5°	4176.5	4184.1	4295.8	4549.5	4937.6	5217.8	5399.6	5640.0	5755.5	5747.9	5287.9
35°	3947.4	3943.6	4131.1	4488.9	4949.0	5431.7	5770.6	6259.1	6582.8	6560.1	6073.6
37.5°	3752.4	3743.0	3955.0	4335.6	4958.4	5602.1	6206.1	6935.0	7345.8	7323.1	6715.4
40°	3513.9	3529.0	3718.4	4157.6	4878.9	5729.0	6584.7	7591.9	8012.3	8012.3	7379.9
42.5°	3273.4	3286.7	3474.1	3909.6	4763.4	5821.8	6940.7	8247.0	8674.9	8684.4	7836.2
45°	3063.3	3069.0	3239.4	3631.3	4555.2	5836.9	7268.2	8904.0	9295.9	9271.3	8356.8
47.5°	2694.1	2756.6	3023.5	3381.4	4271.2	5770.6	7544.6	9489.0	9829.8	9778.7	8852.9
50°	2147.0	2147.0	2516.1	3142.8	3945.5	5594.6	7762.3	10022.9	10337.2	10289.8	9286.4
52.5°	1972.8	1976.6	2090.2	2807.7	3616.1	5291.6	7887.3	10553.0	10835.1	10802.9	9697.2
55°	1880.0	1885.7	1938.7	2275.7	3317.0	4827.8	7891.1	10963.8	11257.3	11185.3	10043.7
57.5°	1739.9	1730.4	1842.1	2027.7	2966.7	4229.5	7705.5	11281.9	11584.8	11529.9	10327.7
60°	1641.5	1626.3	1702.0	1868.6	2590.0	3610.4	7211.4	11512.9	11865.0	11897.2	10606.0
62.5°	1526.0	1520.3	1592.2	1749.4	2311.7	3205.3	6469.2	11244.0	12071.4	12020.3	10852.1
65°	1410.5	1399.1	1467.3	1590.3	2042.8	2874.0	5721.4	10846.5	11912.4	11957.8	10901.4
67.5°	1259.0	1257.1	1321.5	1412.4	1749.4	2502.9	4638.5	10323.9	11420.1	11387.9	10454.5
70°	1075.4	1075.4	1139.7	1219.3	1461.6	2135.6	3561.2	9428.4	10662.8	10850.2	9689.7
72.5°	869.0	872.8	937.2	1028.0	1206.0	1739.9	2625.9	8199.7	10005.8	9704.8	8610.5
75°	463.8	416.5	734.6	827.4	973.1	1387.8	1796.7	5331.4	8532.9	8324.6	7143.2
77.5°	111.7	117.4	231.0	429.8	518.8	768.7	884.1	2468.8	5501.8	5833.1	5094.7
80°	73.8	81.4	125.0	304.8	346.5	408.9	350.3	1075.4	2133.7	2273.8	2957.3
82.5°	37.9	41.7	77.6	121.2	123.1	106.0	132.5	541.5	1128.4	1223.0	1421.8
85°	13.3	20.8	39.8	53.0	49.2	39.8	32.2	134.4	266.9	297.2	308.6
87.5°	0.0	0.0	5.7	5.7	3.8	3.8	5.7	5.7	7.6	5.7	5.7
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°	2911.8	2911.8	2911.8	2911.8	2911.8	2911.8	2911.8	2911.8	2911.8	2911.8	2911.8
2.5°	2896.7	2875.9	2843.7	2809.6	2773.6	2743.3	2726.3	2735.8	2747.1	2711.1	2697.9
5°	2891.0	2855.0	2794.4	2722.5	2667.6	2612.7	2548.3	2533.2	2518.0	2499.1	2478.3
7.5°	2917.5	2864.5	2741.4	2675.2	2559.7	2457.4	2400.6	2359.0	2321.1	2287.1	2266.2
10°	2966.7	2868.3	2730.1	2595.7	2468.8	2343.8	2220.8	2196.2	2188.6	2139.4	2103.4
12.5°	2998.9	2877.7	2690.3	2527.5	2345.7	2211.3	2088.3	2018.2	2012.5	1989.8	1965.2
15°	3050.0	2915.6	2663.8	2442.3	2220.8	2078.8	1965.2	1874.3	1828.9	1827.0	1808.1
17.5°	3142.8	2959.2	2622.2	2355.2	2120.4	1961.4	1798.6	1764.5	1688.8	1645.2	1633.9
20°	3237.5	3023.5	2610.8	2268.1	1989.8	1792.9	1668.0	1573.3	1512.7	1467.3	1438.9
22.5°	3360.5	3116.3	2614.6	2217.0	1883.8	1666.1	1503.2	1363.1	1251.4	1196.5	1170.0
25°	3538.5	3224.2	2643.0	2139.4	1758.8	1529.7	1293.1	1107.6	950.4	910.7	891.7
27.5°	3765.7	3375.7	2682.7	2059.9	1643.3	1346.1	1039.4	831.1	700.5	670.2	651.3
30°	4114.0	3602.9	2688.4	2010.6	1539.2	1107.6	778.1	615.3	513.1	480.9	484.7
32.5°	4769.1	4089.4	2764.2	1908.4	1353.7	850.1	571.8	448.7	371.1	359.7	378.7
35°	5530.2	4663.1	2909.9	1855.4	1141.6	615.3	408.9	329.4	280.2	295.3	302.9
37.5°	6020.5	5168.6	3142.8	1734.2	893.6	452.5	285.9	257.5	248.0	257.5	274.5
40°	6592.3	5579.4	3341.6	1611.2	634.2	310.5	229.1	234.8	223.4	221.5	229.1
42.5°	7056.2	6001.6	3553.6	1408.6	441.1	231.0	210.2	213.9	206.4	196.9	196.9
45°	7497.3	6367.0	3551.7	1136.0	291.6	204.5	193.1	200.7	198.8	185.5	183.6
47.5°	7883.5	6736.2	3553.6	825.5	221.5	187.4	179.9	187.4	187.4	176.1	174.2
50°	8362.5	7042.9	3496.8	528.2	202.6	174.2	172.3	170.4	178.0	162.8	159.0
52.5°	8656.0	7266.3	3241.3	355.9	187.4	164.7	160.9	157.1	160.9	147.7	147.7
55°	8977.8	7544.6	2908.0	282.1	178.0	153.4	151.5	147.7	147.7	132.5	134.4
57.5°	9328.1	7771.8	2459.3	248.0	170.4	145.8	142.0	136.3	128.7	117.4	115.5
60°	9581.8	7819.1	2012.5	225.3	164.7	142.0	126.8	119.3	106.0	98.4	96.6
62.5°	9667.0	7843.8	1632.0	202.6	155.2	130.6	113.6	100.3	85.2	79.5	79.5
65°	9596.9	7559.8	1223.0	183.6	143.9	121.2	100.3	81.4	66.3	60.6	58.7
67.5°	9146.3	7037.2	889.8	164.7	126.8	109.8	87.1	66.3	53.0	47.3	47.3
70°	8326.5	6421.9	602.1	138.2	109.8	96.6	81.4	53.0	43.5	37.9	36.0
72.5°	7432.9	5445.0	384.3	111.7	85.2	75.7	58.7	45.4	36.0	28.4	28.4
75°	5878.6	4276.9	266.9	81.4	60.6	56.8	45.4	37.9	30.3	22.7	22.7
77.5°	4091.3	2779.3	210.2	62.5	41.7	37.9	34.1	28.4	24.6	18.9	17.0
80°	2372.2	1671.7	126.8	41.7	28.4	24.6	22.7	22.7	18.9	13.3	13.3
82.5°	1177.6	696.7	54.9	26.5	18.9	17.0	15.1	13.3	13.3	9.5	9.5
85°	231.0	119.3	20.8	13.3	9.5	9.5	7.6	7.6	5.7	3.8	3.8
87.5°	7.6	5.7	5.7	5.7	3.8	3.8	1.9	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)