

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: P509140

Luminaire Tested: **VERD-CA2-110-760-U-T2-HSS**

Issue Date: 3/4/2021

Test Information

Test Method: LM-79-08
Report Number: P509140
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-CA2-110-760-U-T2-HSS
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5700K, 1020mA LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14576 lumens
Efficiency: N/A
Efficacy: 128.3 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

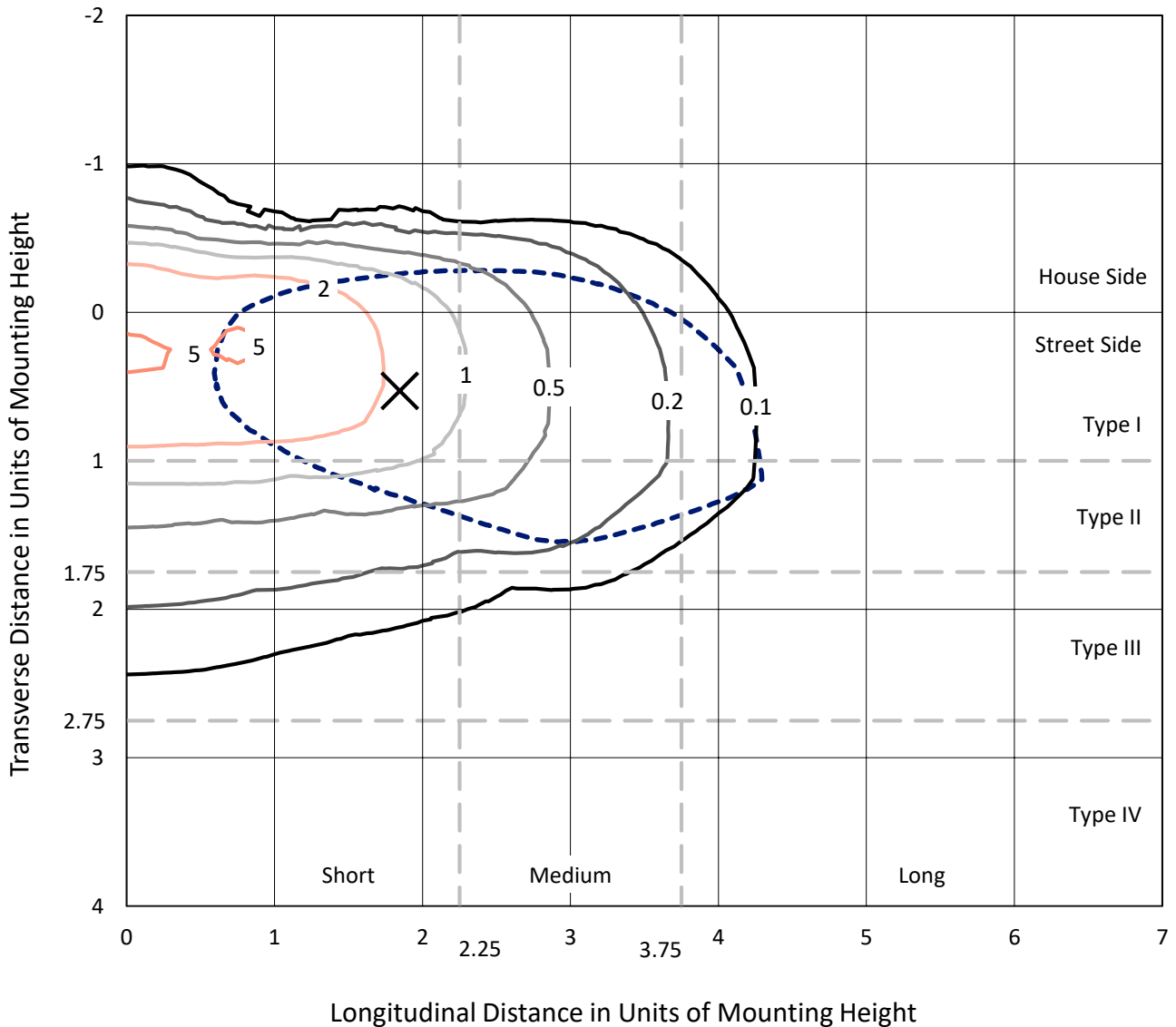
Input Watts (W): 113.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

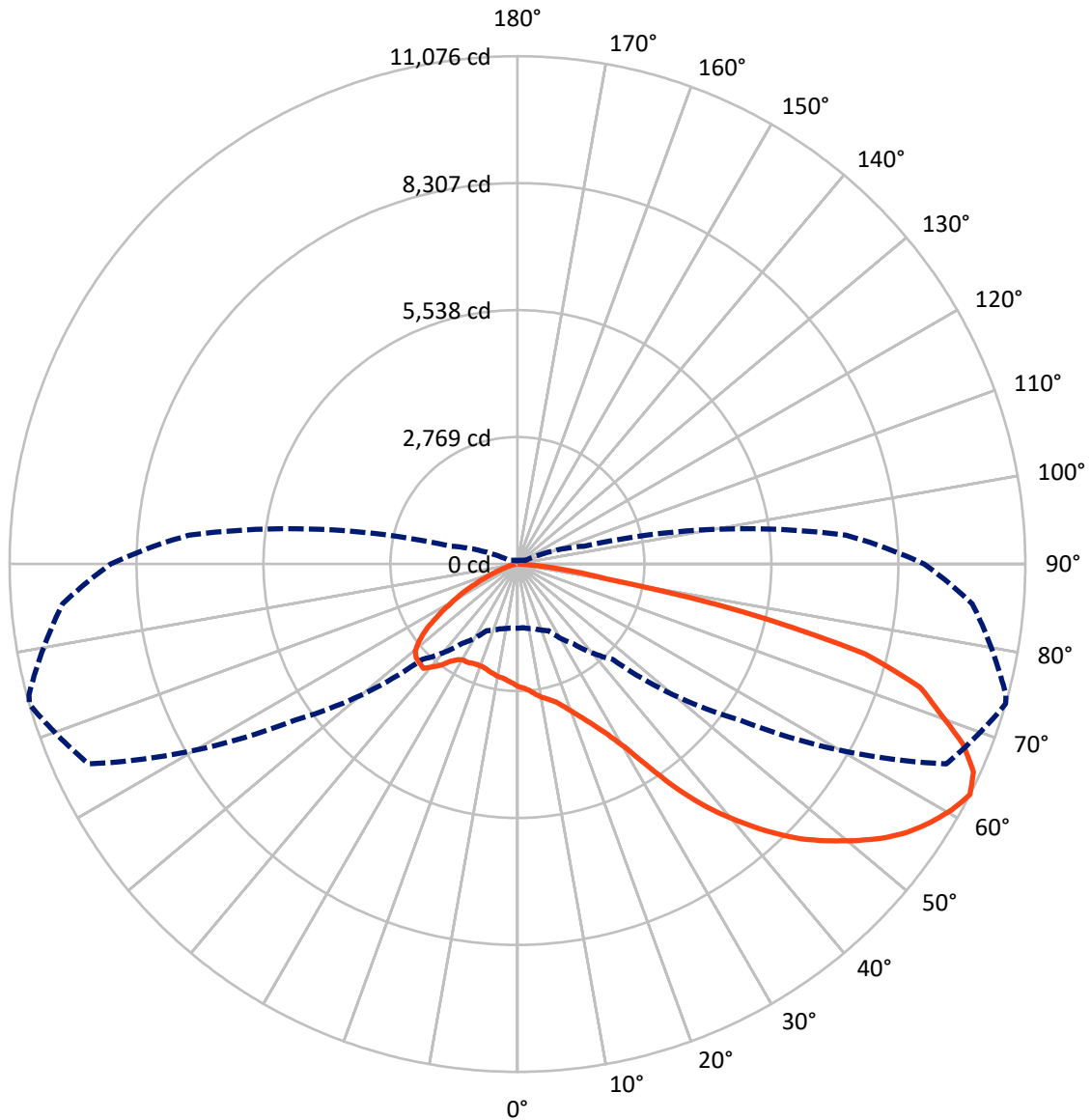
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 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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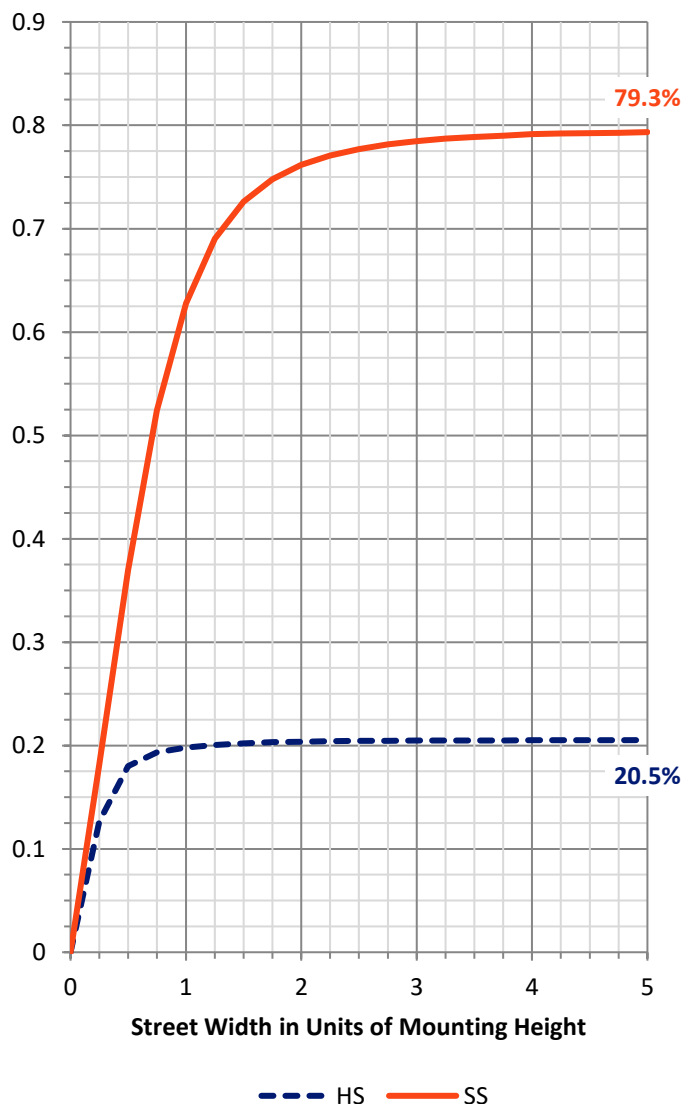
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3026.8	0.0	3026.8
	% Fixture	20.8	0.0	20.8
Street Side	Lumens	11549.2	0.0	11549.2
	% Fixture	79.2	0.0	79.2
Total	Lumens	14576.0	0.0	14576.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	254.7	1.7
10°-20°	769.3	5.3
20°-30°	1298.8	8.9
30°-40°	1931.9	13.3
40°-50°	2614.7	17.9
50°-60°	3008.2	20.6
60°-70°	2903.7	19.9
70°-80°	1644.0	11.3
80°-90°	150.8	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°	14576.0	100.0
0°-180°	14576.0	100.0



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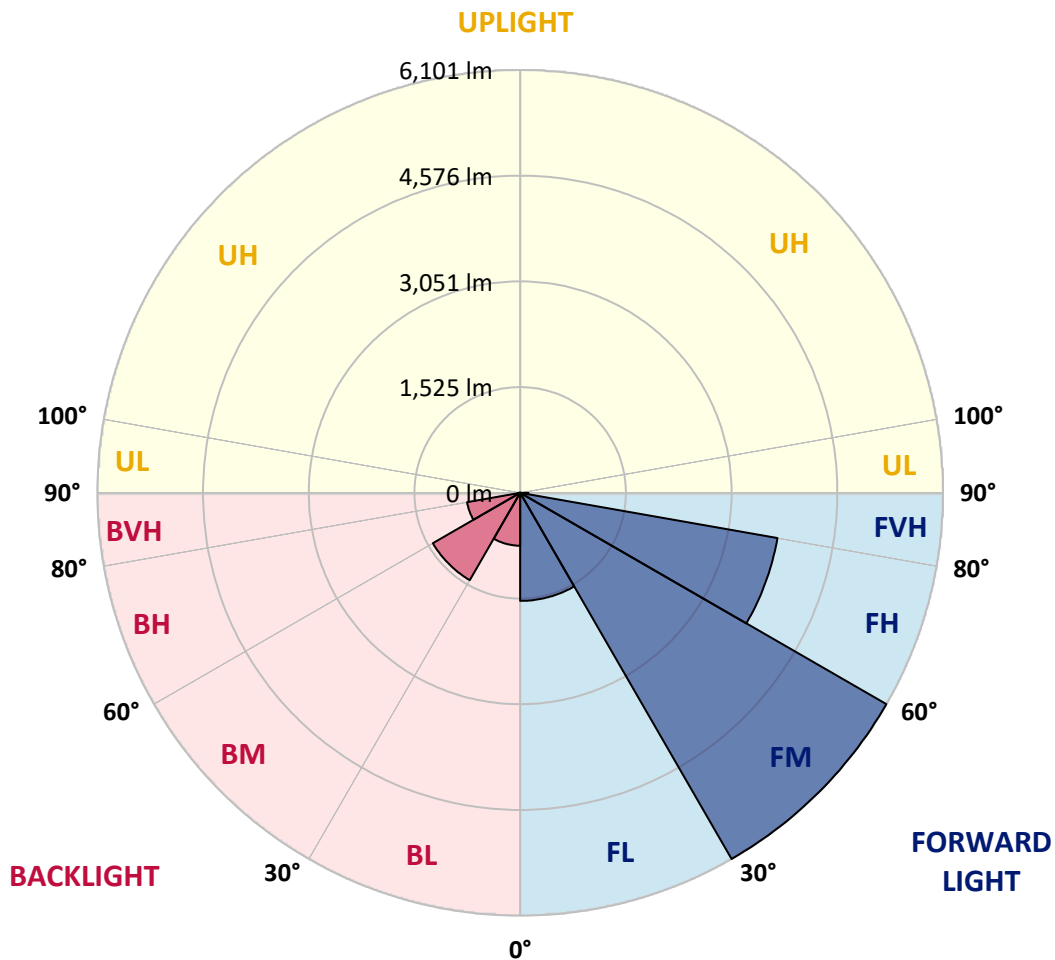
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1559.6	10.7			
FM (30°-60°)	6101.2	41.9			
FH (60°-80°)	3769.5	25.9			G2/5000
FVH (80°-90°)	118.8	0.8			G2/225
BL (0°-30°)	763.2	5.2	B2/1000		
BM (30°-60°)	1453.5	10.0	B2/2500		
BH (60°-80°)	778.1	5.3	B2/1000		G2/1000
BVH (80°-90°)	32.0	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°	2671.7	2671.7	2671.7	2671.7	2671.7	2671.7	2671.7	2671.7	2671.7	2671.7	2671.7
2.5°	2913.2	2894.1	2878.4	2869.7	2845.4	2824.6	2782.9	2739.5	2709.9	2708.2	2680.4
5°	3034.8	3033.0	2998.3	2991.3	2958.3	2947.9	2906.2	2843.7	2770.7	2762.0	2687.3
7.5°	3194.6	3175.5	3137.3	3121.6	3083.4	3055.6	3000.0	2941.0	2868.0	2859.3	2729.0
10°	3349.2	3338.8	3316.2	3317.9	3264.1	3212.0	3128.6	3027.8	2958.3	2947.9	2788.1
12.5°	3528.1	3495.1	3456.9	3436.0	3382.2	3349.2	3269.3	3137.3	3027.8	3017.4	2857.6
15°	3651.5	3634.1	3599.3	3585.4	3533.3	3479.5	3387.4	3284.9	3119.9	3109.5	2928.8
17.5°	3783.5	3774.8	3734.8	3726.1	3675.8	3611.5	3540.3	3406.5	3262.3	3245.0	3013.9
20°	3872.1	3856.4	3851.2	3849.5	3835.6	3795.6	3705.3	3601.1	3441.3	3410.0	3123.4
22.5°	3990.2	3974.6	3981.5	3988.5	4007.6	3990.2	3931.1	3807.8	3649.7	3621.9	3295.3
25°	4002.4	3991.9	4038.8	4136.1	4174.3	4193.4	4148.3	4052.7	3899.9	3863.4	3500.3
27.5°	4035.4	4019.7	4070.1	4172.6	4344.6	4374.1	4382.8	4337.6	4209.1	4188.2	3778.3
30°	3976.3	3965.9	4044.0	4219.5	4412.3	4579.1	4643.4	4705.9	4646.8	4610.3	4165.6
32.5°	3832.1	3839.1	3941.6	4174.3	4530.4	4787.5	4954.3	5174.9	5280.9	5273.9	4851.8
35°	3621.9	3618.4	3790.4	4118.7	4540.9	4983.8	5294.8	5743.0	6040.0	6019.2	5572.7
37.5°	3443.0	3434.3	3628.9	3978.0	4549.5	5140.2	5694.3	6363.1	6740.1	6719.2	6161.6
40°	3224.1	3238.0	3411.7	3814.7	4476.6	5256.6	6041.7	6965.9	7351.5	7351.5	6771.3
42.5°	3003.5	3015.7	3187.6	3587.2	4370.6	5341.7	6368.3	7566.9	7959.5	7968.2	7190.0
45°	2810.7	2815.9	2972.2	3331.8	4179.5	5355.6	6668.8	8169.7	8529.3	8506.7	7667.7
47.5°	2471.9	2529.3	2774.2	3102.5	3919.0	5294.8	6922.5	8706.5	9019.2	8972.3	8122.8
50°	1969.9	1969.9	2308.6	2883.6	3620.2	5133.2	7122.2	9196.4	9484.7	9441.3	8520.6
52.5°	1810.1	1813.6	1917.8	2576.2	3317.9	4855.3	7236.9	9682.8	9941.6	9912.1	8897.6
55°	1725.0	1730.2	1778.8	2088.0	3043.5	4429.7	7240.4	10059.7	10329.0	10263.0	9215.5
57.5°	1596.4	1587.7	1690.2	1860.5	2722.1	3880.8	7070.1	10351.6	10629.5	10579.1	9476.1
60°	1506.1	1492.2	1561.7	1714.5	2376.4	3312.7	6616.7	10563.5	10886.6	10916.1	9731.4
62.5°	1400.1	1394.9	1460.9	1605.1	2121.0	2941.0	5935.8	10316.8	11076.0	11029.0	9957.2
65°	1294.2	1283.7	1346.3	1459.2	1874.4	2637.0	5249.6	9952.0	10930.0	10971.7	10002.4
67.5°	1155.2	1153.5	1212.5	1295.9	1605.1	2296.5	4256.0	9472.6	10478.4	10448.8	9592.4
70°	986.7	986.7	1045.8	1118.7	1341.1	1959.5	3267.5	8650.9	9783.5	9955.5	8890.6
72.5°	797.3	800.8	859.9	943.3	1106.6	1596.4	2409.4	7523.5	9180.7	8904.5	7900.5
75°	425.6	382.2	674.0	759.1	892.9	1273.3	1648.5	4891.8	7829.3	7638.2	6554.2
77.5°	102.5	107.7	211.9	394.3	476.0	705.3	811.2	2265.2	5048.1	5352.1	4674.6
80°	67.7	74.7	114.7	279.7	317.9	375.2	321.4	986.7	1957.7	2086.3	2713.4
82.5°	34.7	38.2	71.2	111.2	112.9	97.3	121.6	496.8	1035.3	1122.2	1304.6
85°	12.2	19.1	36.5	48.6	45.2	36.5	29.5	123.3	244.9	272.7	283.2
87.5°	0.0	0.0	5.2	5.2	3.5	3.5	5.2	5.2	6.9	5.2	5.2
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°	2671.7	2671.7	2671.7	2671.7	2671.7	2671.7	2671.7	2671.7	2671.7	2671.7	2671.7
2.5°	2657.8	2638.7	2609.2	2577.9	2544.9	2517.1	2501.5	2510.2	2520.6	2487.6	2475.4
5°	2652.6	2619.6	2564.0	2498.0	2447.6	2397.2	2338.2	2324.3	2310.4	2293.0	2273.9
7.5°	2676.9	2628.3	2515.4	2454.6	2348.6	2254.8	2202.7	2164.5	2129.7	2098.5	2079.3
10°	2722.1	2631.8	2504.9	2381.6	2265.2	2150.6	2037.7	2015.1	2008.1	1963.0	1930.0
12.5°	2751.6	2640.4	2468.5	2319.1	2152.3	2029.0	1916.1	1851.8	1846.6	1825.7	1803.1
15°	2798.5	2675.2	2444.1	2240.9	2037.7	1907.4	1803.1	1719.8	1678.1	1676.3	1659.0
17.5°	2883.6	2715.1	2405.9	2161.0	1945.6	1799.7	1650.3	1619.0	1549.5	1509.6	1499.1
20°	2970.5	2774.2	2395.5	2081.1	1825.7	1645.1	1530.4	1443.6	1388.0	1346.3	1320.2
22.5°	3083.4	2859.3	2399.0	2034.2	1728.4	1528.7	1379.3	1250.7	1148.2	1097.9	1073.5
25°	3246.7	2958.3	2425.0	1963.0	1613.8	1403.6	1186.5	1016.2	872.0	835.6	818.2
27.5°	3455.2	3097.3	2461.5	1890.0	1507.8	1235.1	953.7	762.6	642.7	614.9	597.6
30°	3774.8	3305.8	2466.7	1844.8	1412.3	1016.2	714.0	564.6	470.8	441.2	444.7
32.5°	4375.8	3752.2	2536.2	1751.0	1242.0	780.0	524.6	411.7	340.5	330.1	347.4
35°	5074.2	4278.6	2670.0	1702.4	1047.5	564.6	375.2	302.3	257.1	271.0	277.9
37.5°	5524.1	4742.4	2883.6	1591.2	819.9	415.2	262.3	236.2	227.6	236.2	251.9
40°	6048.7	5119.3	3066.0	1478.3	581.9	284.9	210.2	215.4	205.0	203.2	210.2
42.5°	6474.3	5506.7	3260.6	1292.4	404.8	211.9	192.8	196.3	189.3	180.7	180.7
45°	6879.0	5842.0	3258.9	1042.3	267.5	187.6	177.2	184.1	182.4	170.2	168.5
47.5°	7233.4	6180.7	3260.6	757.4	203.2	172.0	165.0	172.0	172.0	161.6	159.8
50°	7672.9	6462.1	3208.5	484.7	185.9	159.8	158.1	156.3	163.3	149.4	145.9
52.5°	7942.2	6667.1	2974.0	326.6	172.0	151.1	147.7	144.2	147.7	135.5	135.5
55°	8237.5	6922.5	2668.2	258.8	163.3	140.7	139.0	135.5	135.5	121.6	123.3
57.5°	8558.8	7130.9	2256.5	227.6	156.3	133.8	130.3	125.1	118.1	107.7	106.0
60°	8791.6	7174.4	1846.6	206.7	151.1	130.3	116.4	109.4	97.3	90.3	88.6
62.5°	8869.8	7196.9	1497.4	185.9	142.4	119.9	104.2	92.1	78.2	73.0	73.0
65°	8805.5	6936.4	1122.2	168.5	132.0	111.2	92.1	74.7	60.8	55.6	53.9
67.5°	8392.1	6456.9	816.5	151.1	116.4	100.8	79.9	60.8	48.6	43.4	43.4
70°	7639.9	5892.4	552.4	126.8	100.8	88.6	74.7	48.6	40.0	34.7	33.0
72.5°	6820.0	4996.0	352.6	102.5	78.2	69.5	53.9	41.7	33.0	26.1	26.1
75°	5393.8	3924.2	244.9	74.7	55.6	52.1	41.7	34.7	27.8	20.8	20.8
77.5°	3753.9	2550.1	192.8	57.3	38.2	34.7	31.3	26.1	22.6	17.4	15.6
80°	2176.6	1533.9	116.4	38.2	26.1	22.6	20.8	20.8	17.4	12.2	12.2
82.5°	1080.5	639.3	50.4	24.3	17.4	15.6	13.9	12.2	12.2	8.7	8.7
85°	211.9	109.4	19.1	12.2	8.7	8.7	6.9	6.9	5.2	3.5	3.5
87.5°	6.9	5.2	5.2	5.2	3.5	3.5	1.7	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)