

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: P509084

Luminaire Tested: **VERD-CA2-100-750-U-T2-HSS**

Issue Date: 3/4/2021

Test Information

Test Method: LM-79-08
Report Number: P509084
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-CA2-100-750-U-T2-HSS
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 1370mA LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12916 lumens
Efficiency: N/A
Efficacy: 124.9 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

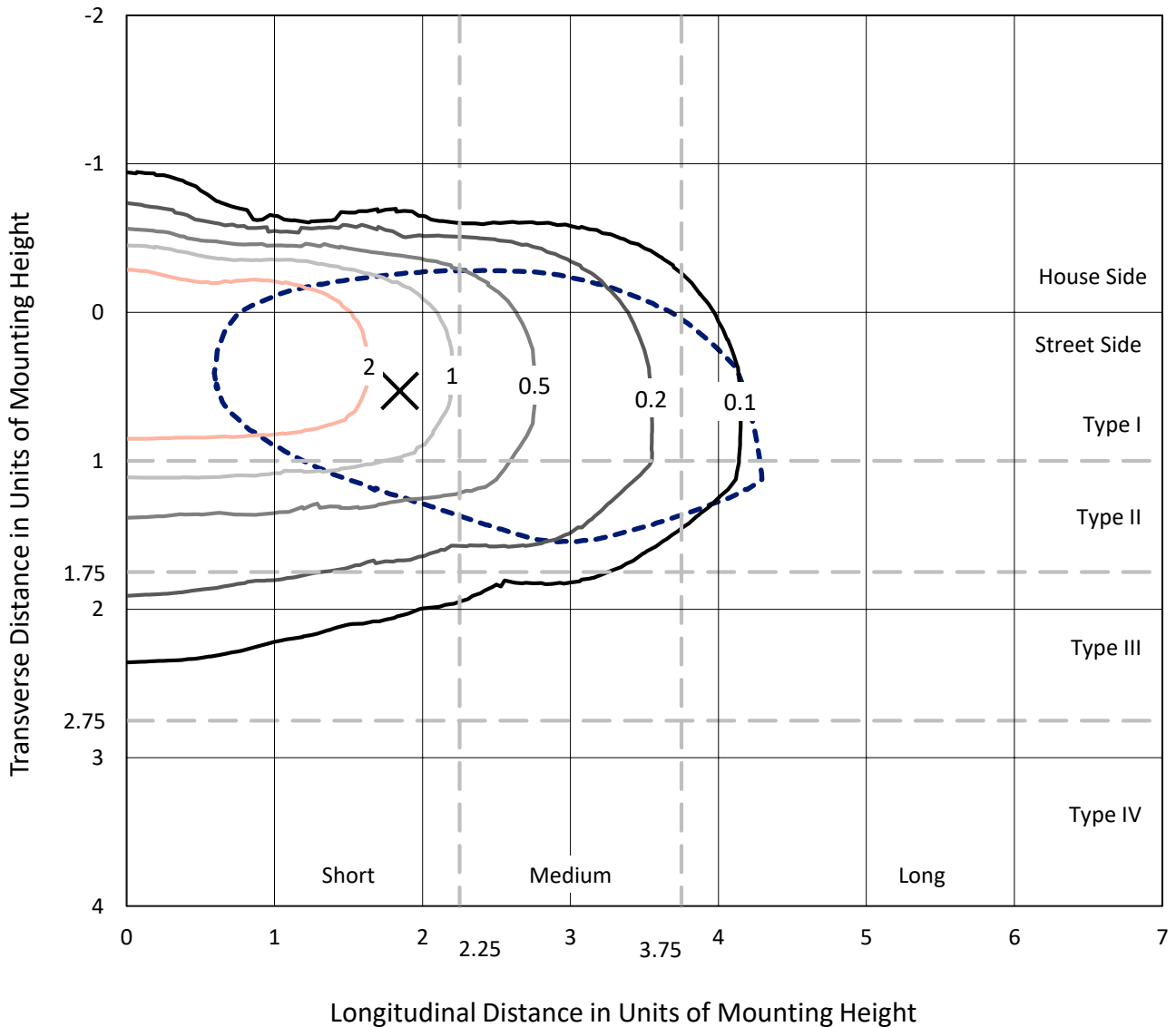
Input Watts (W): 103.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

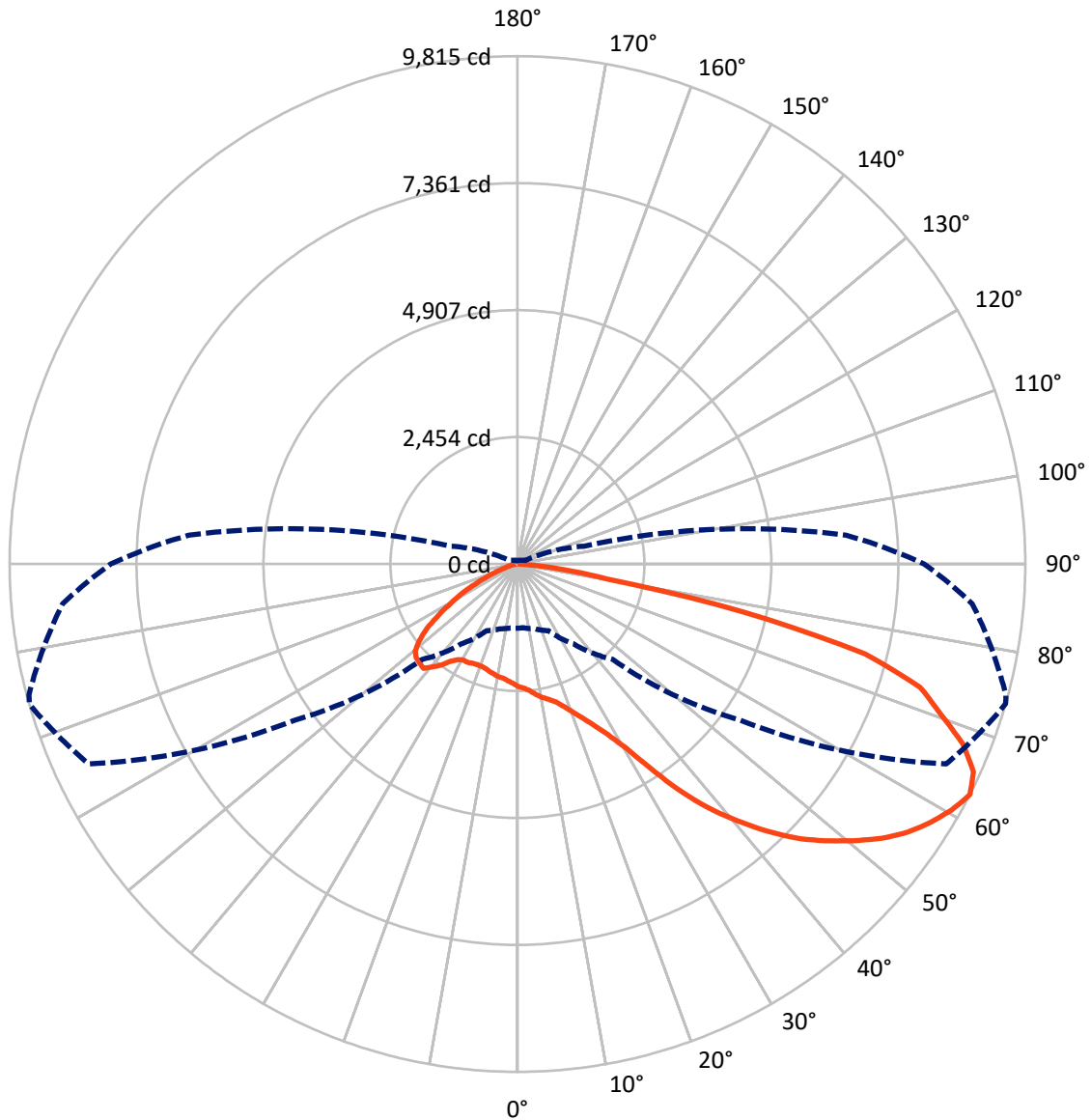
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 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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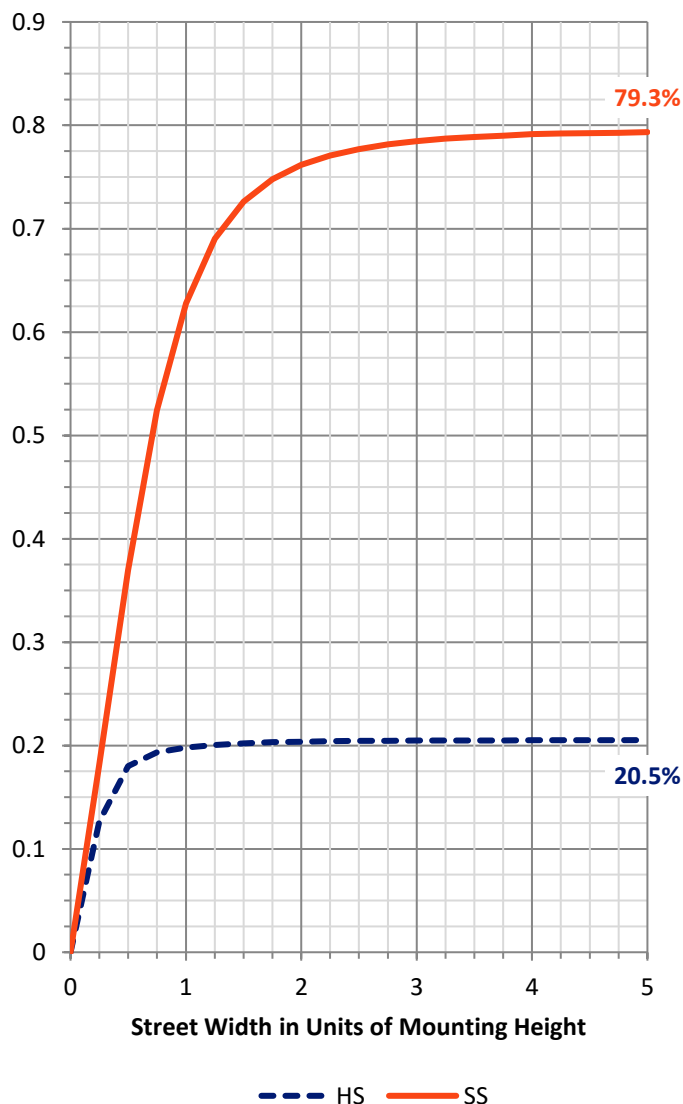
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2682.1	0.0	2682.1
	% Fixture	20.8	0.0	20.8
Street Side	Lumens	10233.9	0.0	10233.9
	% Fixture	79.2	0.0	79.2
Total	Lumens	12916.0	0.0	12916.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	225.7	1.7
10°-20°	681.7	5.3
20°-30°	1150.9	8.9
30°-40°	1711.9	13.3
40°-50°	2316.9	17.9
50°-60°	2665.6	20.6
60°-70°	2573.0	19.9
70°-80°	1456.8	11.3
80°-90°	133.6	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°	12916.0	100.0
0°-180°	12916.0	100.0

Coefficient of Utilization



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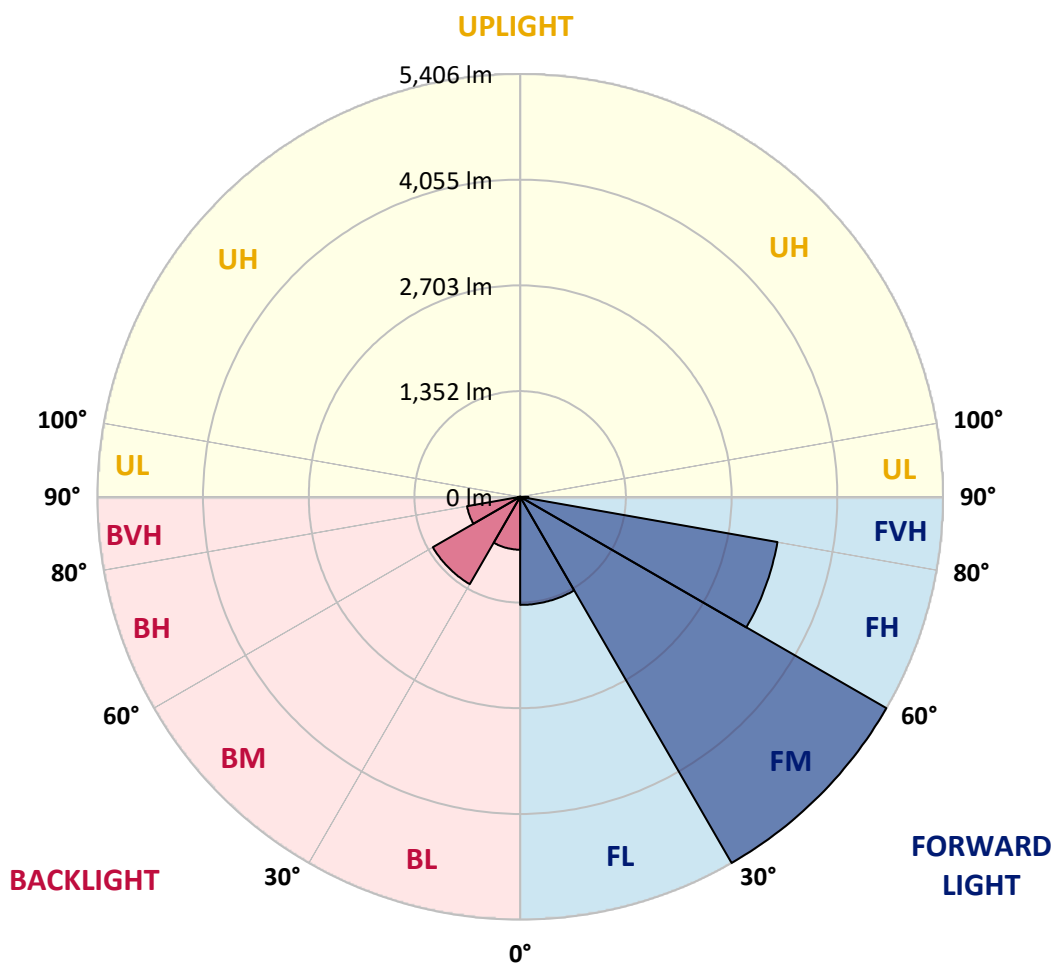
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1382.0	10.7			
FM (30°-60°)	5406.4	41.9			
FH (60°-80°)	3340.2	25.9			G2/5000
FVH (80°-90°)	105.3	0.8			G2/225
BL (0°-30°)	676.3	5.2	B2/1000		
BM (30°-60°)	1288.0	10.0	B2/2500		
BH (60°-80°)	689.5	5.3	B2/1000		G2/1000
BVH (80°-90°)	28.3	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°	2367.4	2367.4	2367.4	2367.4	2367.4	2367.4	2367.4	2367.4	2367.4	2367.4	2367.4
2.5°	2581.4	2564.5	2550.6	2542.9	2521.4	2502.9	2466.0	2427.5	2401.3	2399.8	2375.1
5°	2689.2	2687.6	2656.8	2650.7	2621.4	2612.2	2575.2	2519.8	2455.2	2447.5	2381.3
7.5°	2830.8	2813.8	2780.0	2766.1	2732.3	2707.6	2658.4	2606.0	2541.4	2533.7	2418.2
10°	2967.8	2958.5	2938.5	2940.1	2892.3	2846.2	2772.3	2683.0	2621.4	2612.2	2470.6
12.5°	3126.3	3097.1	3063.2	3044.7	2997.0	2967.8	2897.0	2780.0	2683.0	2673.8	2532.1
15°	3235.6	3220.2	3189.4	3177.1	3130.9	3083.2	3001.6	2910.8	2764.6	2755.3	2595.3
17.5°	3352.6	3344.9	3309.5	3301.8	3257.2	3200.2	3137.1	3018.6	2890.8	2875.4	2670.7
20°	3431.1	3417.2	3412.6	3411.1	3398.8	3363.4	3283.3	3191.0	3049.3	3021.6	2767.7
22.5°	3535.8	3521.9	3528.1	3534.2	3551.2	3535.8	3483.4	3374.1	3234.1	3209.4	2920.0
25°	3546.5	3537.3	3578.9	3665.1	3698.9	3715.9	3675.8	3591.2	3455.7	3423.4	3101.7
27.5°	3575.8	3561.9	3606.6	3697.4	3849.8	3875.9	3883.6	3843.6	3729.7	3711.2	3348.0
30°	3523.5	3514.2	3583.5	3739.0	3909.8	4057.6	4114.5	4170.0	4117.6	4085.3	3691.2
32.5°	3395.7	3401.8	3492.7	3698.9	4014.5	4242.3	4390.1	4585.6	4679.5	4673.3	4299.3
35°	3209.4	3206.4	3358.7	3649.7	4023.7	4416.2	4691.8	5088.9	5352.1	5333.7	4938.1
37.5°	3050.9	3043.2	3215.6	3525.0	4031.4	4554.8	5045.8	5638.4	5972.5	5954.0	5459.9
40°	2856.9	2869.2	3023.2	3380.3	3966.8	4657.9	5353.7	6172.6	6514.3	6514.3	6000.2
42.5°	2661.4	2672.2	2824.6	3178.6	3872.9	4733.3	5643.1	6705.2	7053.1	7060.8	6371.1
45°	2490.6	2495.2	2633.7	2952.4	3703.5	4745.7	5909.4	7239.3	7557.9	7537.9	6794.5
47.5°	2190.4	2241.2	2458.3	2749.2	3472.7	4691.8	6134.1	7715.0	7992.0	7950.5	7197.8
50°	1745.6	1745.6	2045.7	2555.2	3207.9	4548.6	6311.1	8149.0	8404.6	8366.1	7550.3
52.5°	1603.9	1607.0	1699.4	2282.8	2940.1	4302.3	6412.7	8580.0	8809.4	8783.2	7884.3
55°	1528.5	1533.1	1576.2	1850.2	2696.8	3925.2	6415.8	8914.1	9152.7	9094.2	8166.0
57.5°	1414.6	1406.9	1497.7	1648.6	2412.1	3438.8	6264.9	9172.7	9419.0	9374.3	8396.9
60°	1334.6	1322.3	1383.8	1519.3	2105.8	2935.4	5863.2	9360.5	9646.8	9672.9	8623.1
62.5°	1240.7	1236.1	1294.5	1422.3	1879.5	2606.0	5259.8	9141.9	9814.6	9773.0	8823.2
65°	1146.8	1137.5	1193.0	1293.0	1660.9	2336.7	4651.8	8818.6	9685.3	9722.2	8863.3
67.5°	1023.6	1022.1	1074.4	1148.3	1422.3	2035.0	3771.3	8393.8	9285.0	9258.9	8500.0
70°	874.3	874.3	926.7	991.3	1188.3	1736.3	2895.4	7665.7	8669.3	8821.7	7878.1
72.5°	706.5	709.6	762.0	835.8	980.5	1414.6	2135.0	6666.7	8135.2	7890.4	7000.7
75°	377.1	338.6	597.2	672.7	791.2	1128.3	1460.8	4334.7	6937.6	6768.3	5807.8
77.5°	90.8	95.4	187.8	349.4	421.8	625.0	718.9	2007.2	4473.2	4742.6	4142.2
80°	60.0	66.2	101.6	247.8	281.7	332.5	284.8	874.3	1734.8	1848.7	2404.4
82.5°	30.8	33.9	63.1	98.5	100.1	86.2	107.8	440.2	917.4	994.4	1156.0
85°	10.8	16.9	32.3	43.1	40.0	32.3	26.2	109.3	217.0	241.7	250.9
87.5°	0.0	0.0	4.6	4.6	3.1	3.1	4.6	4.6	6.2	4.6	4.6
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°	2367.4	2367.4	2367.4	2367.4	2367.4	2367.4	2367.4	2367.4	2367.4	2367.4	2367.4
2.5°	2355.1	2338.2	2312.0	2284.3	2255.1	2230.4	2216.6	2224.3	2233.5	2204.3	2193.5
5°	2350.5	2321.3	2272.0	2213.5	2168.9	2124.2	2071.9	2059.6	2047.3	2031.9	2014.9
7.5°	2372.1	2329.0	2228.9	2175.0	2081.1	1998.0	1951.8	1918.0	1887.2	1859.5	1842.5
10°	2412.1	2332.0	2219.7	2110.4	2007.2	1905.6	1805.6	1785.6	1779.4	1739.4	1710.2
12.5°	2438.2	2339.7	2187.3	2055.0	1907.2	1797.9	1697.8	1640.9	1636.3	1617.8	1597.8
15°	2479.8	2370.5	2165.8	1985.7	1805.6	1690.1	1597.8	1523.9	1487.0	1485.4	1470.0
17.5°	2555.2	2405.9	2131.9	1914.9	1724.0	1594.7	1462.3	1434.6	1373.1	1337.6	1328.4
20°	2632.2	2458.3	2122.7	1844.1	1617.8	1457.7	1356.1	1279.2	1229.9	1193.0	1169.9
22.5°	2732.3	2533.7	2125.8	1802.5	1531.6	1354.6	1222.2	1108.3	1017.5	972.8	951.3
25°	2876.9	2621.4	2148.9	1739.4	1430.0	1243.8	1051.3	900.5	772.7	740.4	725.0
27.5°	3061.7	2744.6	2181.2	1674.8	1336.1	1094.4	845.1	675.8	569.5	544.9	529.5
30°	3344.9	2929.3	2185.8	1634.7	1251.4	900.5	632.7	500.3	417.1	391.0	394.1
32.5°	3877.5	3324.9	2247.4	1551.6	1100.6	691.1	464.9	364.8	301.7	292.5	307.9
35°	4496.3	3791.3	2365.9	1508.5	928.2	500.3	332.5	267.8	227.8	240.1	246.3
37.5°	4895.0	4202.3	2555.2	1410.0	726.5	367.9	232.4	209.3	201.6	209.3	223.2
40°	5359.8	4536.3	2716.9	1309.9	515.7	252.4	186.3	190.9	181.6	180.1	186.3
42.5°	5737.0	4879.6	2889.3	1145.2	358.7	187.8	170.9	173.9	167.8	160.1	160.1
45°	6095.6	5176.7	2887.7	923.6	237.1	166.2	157.0	163.2	161.6	150.9	149.3
47.5°	6409.6	5476.8	2889.3	671.1	180.1	152.4	146.2	152.4	152.4	143.2	141.6
50°	6799.1	5726.2	2843.1	429.5	164.7	141.6	140.1	138.5	144.7	132.4	129.3
52.5°	7037.7	5907.8	2635.3	289.4	152.4	133.9	130.8	127.8	130.8	120.1	120.1
55°	7299.3	6134.1	2364.4	229.4	144.7	124.7	123.1	120.1	120.1	107.8	109.3
57.5°	7584.1	6318.8	1999.5	201.6	138.5	118.5	115.4	110.8	104.7	95.4	93.9
60°	7790.4	6357.3	1636.3	183.2	133.9	115.4	103.1	97.0	86.2	80.0	78.5
62.5°	7859.6	6377.3	1326.9	164.7	126.2	106.2	92.4	81.6	69.3	64.7	64.7
65°	7802.7	6146.4	994.4	149.3	117.0	98.5	81.6	66.2	53.9	49.3	47.7
67.5°	7436.3	5721.6	723.5	133.9	103.1	89.3	70.8	53.9	43.1	38.5	38.5
70°	6769.8	5221.3	489.5	112.4	89.3	78.5	66.2	43.1	35.4	30.8	29.2
72.5°	6043.3	4427.0	312.5	90.8	69.3	61.6	47.7	36.9	29.2	23.1	23.1
75°	4779.5	3477.3	217.0	66.2	49.3	46.2	36.9	30.8	24.6	18.5	18.5
77.5°	3326.4	2259.7	170.9	50.8	33.9	30.8	27.7	23.1	20.0	15.4	13.9
80°	1928.7	1359.2	103.1	33.9	23.1	20.0	18.5	18.5	15.4	10.8	10.8
82.5°	957.4	566.5	44.6	21.6	15.4	13.9	12.3	10.8	10.8	7.7	7.7
85°	187.8	97.0	16.9	10.8	7.7	7.7	6.2	6.2	4.6	3.1	3.1
87.5°	6.2	4.6	4.6	4.6	3.1	3.1	1.5	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)