

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: P509500

Luminaire Tested: **VERD-G-CA2-110-730-U-T2-HSS**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P509500
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2102-155-3)
Test Lab: INNOVATION CENTER
Issue Date: 4/6/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-G-CA2-110-730-U-T2-HSS
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 1020mA LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14817 lumens
Efficiency: N/A
Efficacy: 130.9 lumens/watt
Luminous Opening: Rectangular (W 0.9' x L: 1.25' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

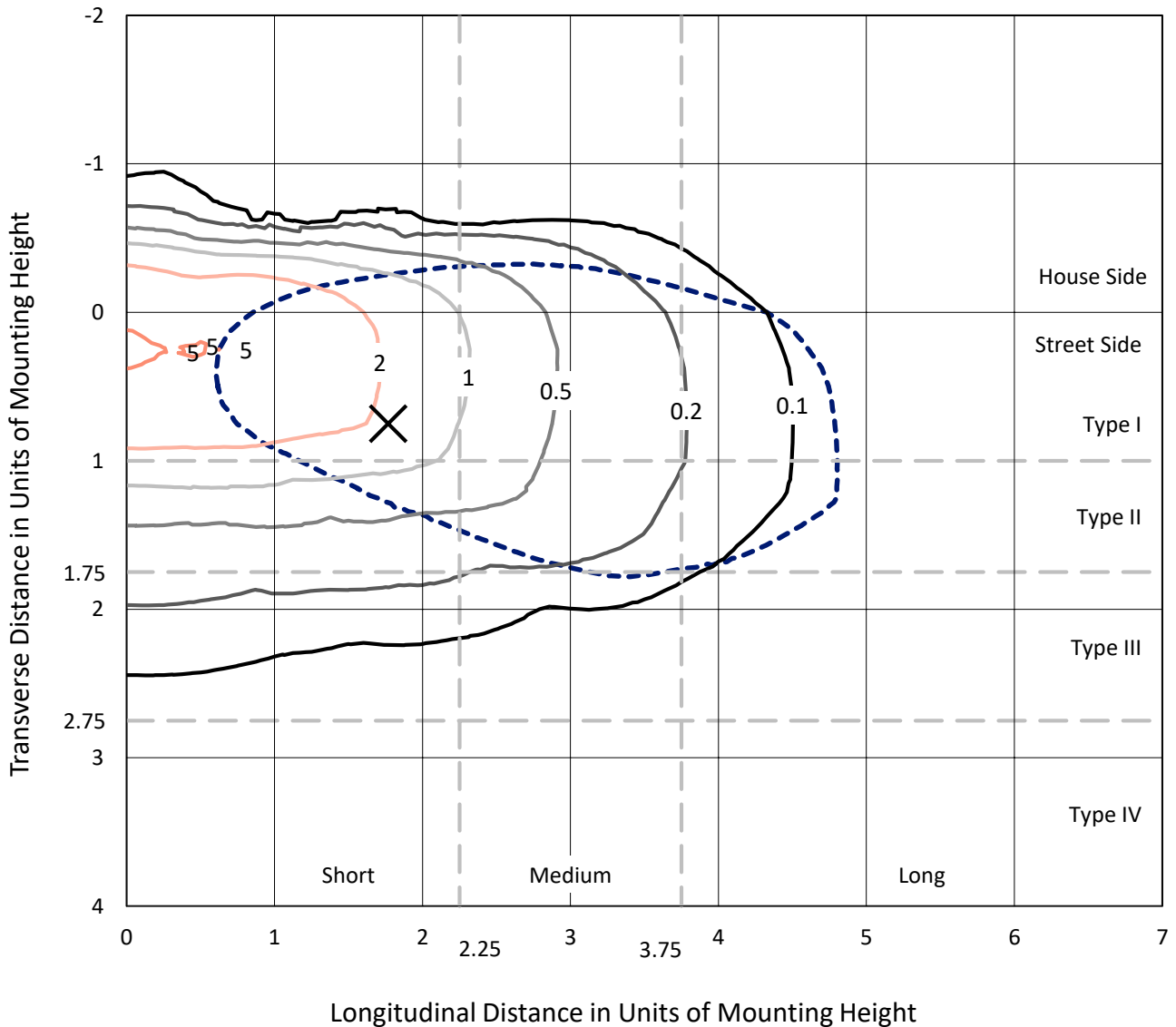
Input Watts (W): 113.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

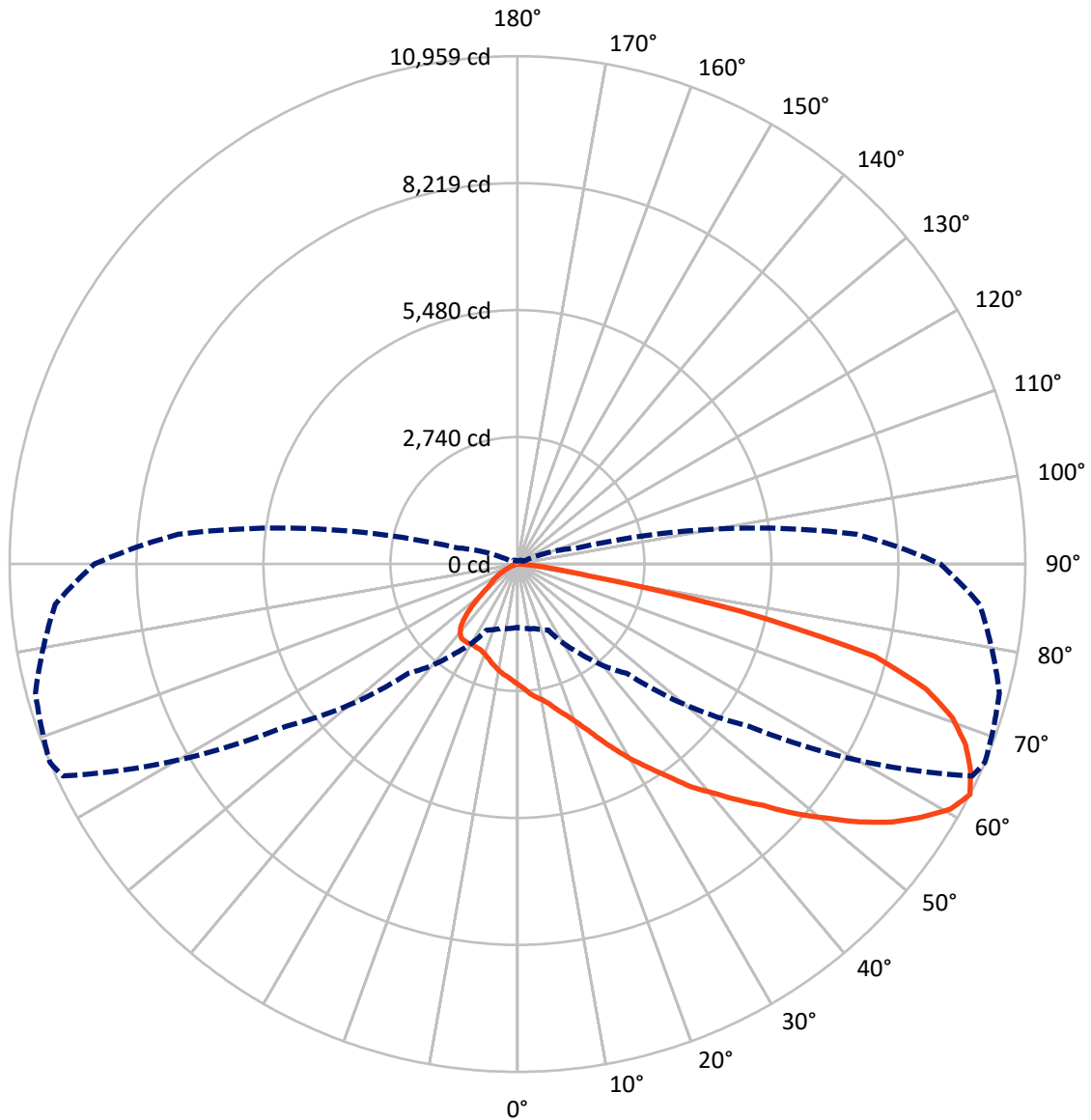
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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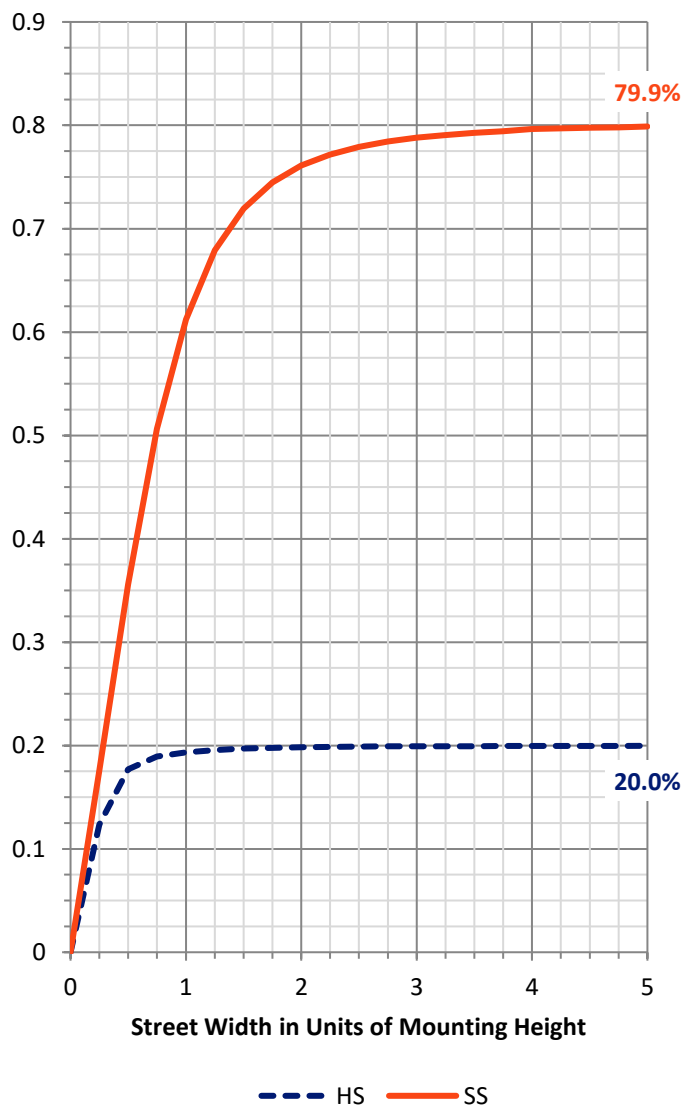
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2994.2	0.0	2994.2
	% Fixture	20.2	0.0	20.2
Street Side	Lumens	11822.8	0.0	11822.8
	% Fixture	79.8	0.0	79.8
Total	Lumens	14817.0	0.0	14817.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	251.6	1.7
10°-20°	758.7	5.1
20°-30°	1294.1	8.7
30°-40°	1895.9	12.8
40°-50°	2502.1	16.9
50°-60°	2944.5	19.9
60°-70°	3028.4	20.4
70°-80°	1962.1	13.2
80°-90°	179.6	1.2
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°	14817.0	100.0
0°-180°	14817.0	100.0

Coefficient of Utilization



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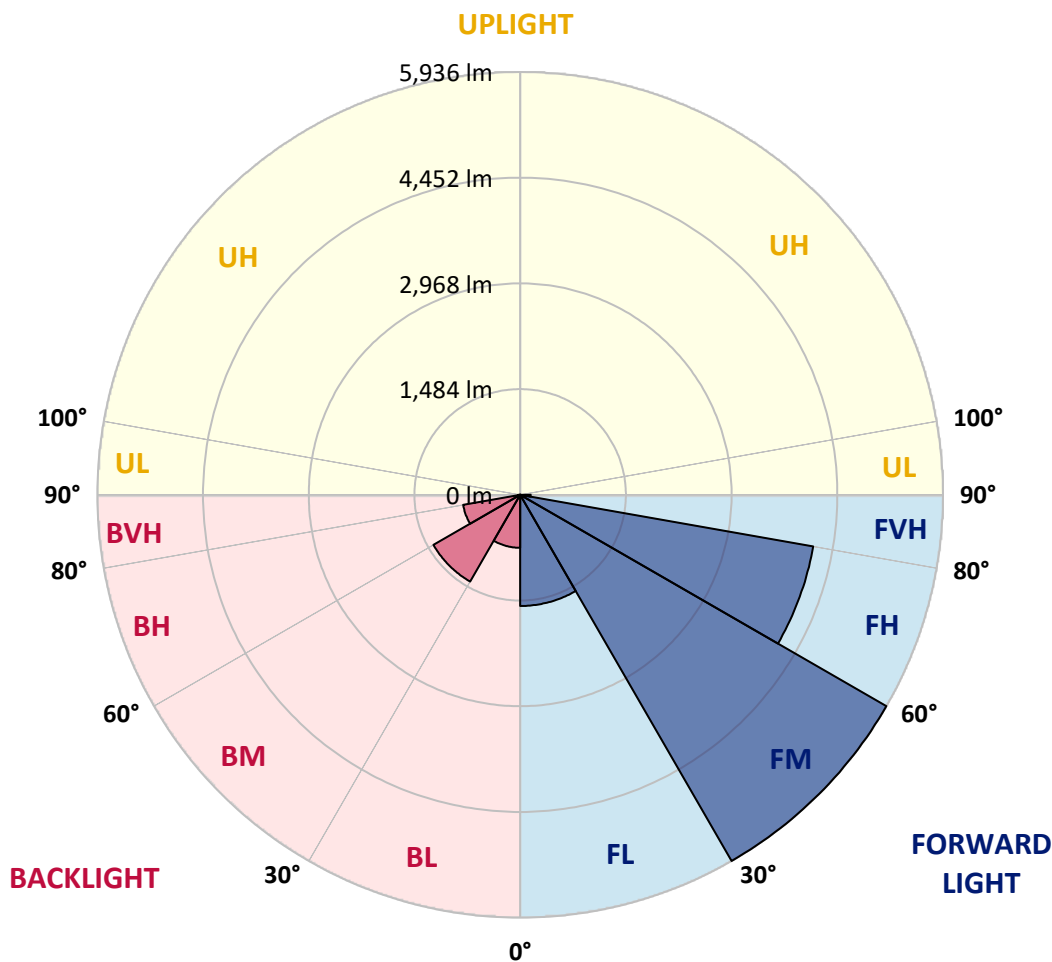
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1560.2	10.5			
FM	(30°-60°)	5936.5	40.1			
FH	(60°-80°)	4177.6	28.2			G2/5000
FVH	(80°-90°)	148.5	1.0			G2/225
BL	(0°-30°)	744.2	5.0	B2/1000		
BM	(30°-60°)	1406.1	9.5	B2/2500		
BH	(60°-80°)	812.9	5.5	B2/1000		G2/1000
BVH	(80°-90°)	31.1	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°	67°	75°	85°
0°	2603.5	2603.5	2603.5	2603.5	2603.5	2603.5	2603.5	2603.5	2603.5	2603.5	2603.5
2.5°	2887.4	2884.2	2853.2	2824.4	2805.2	2804.1	2754.0	2709.1	2688.8	2665.4	2613.1
5°	3036.8	3062.4	3028.3	2985.6	2951.4	2925.8	2882.1	2830.8	2809.5	2754.0	2675.0
7.5°	3253.5	3253.5	3221.5	3185.2	3145.7	3077.4	3002.7	2913.0	2902.3	2840.4	2736.9
10°	3358.1	3383.7	3342.1	3299.4	3255.7	3220.4	3119.0	3009.1	2982.4	2889.5	2761.4
12.5°	3504.4	3504.4	3481.9	3445.7	3395.5	3325.0	3259.9	3148.9	3104.1	2965.3	2805.2
15°	3642.1	3630.3	3611.1	3551.3	3525.7	3481.9	3396.6	3280.2	3271.7	3118.0	2872.4
17.5°	3749.9	3730.7	3712.5	3680.5	3649.5	3632.5	3571.6	3470.2	3435.0	3294.1	2999.5
20°	3805.4	3821.4	3777.6	3776.6	3786.2	3773.4	3732.8	3657.0	3642.1	3474.5	3128.6
22.5°	3868.4	3889.7	3879.0	3889.7	3918.5	3939.9	3937.7	3921.7	3898.2	3715.7	3336.8
25°	3882.2	3868.4	3913.2	4012.5	4085.0	4136.3	4236.6	4216.3	4209.9	4048.7	3619.6
27.5°	3839.5	3852.3	3922.8	4065.8	4252.6	4392.5	4474.7	4576.1	4553.6	4428.8	3960.2
30°	3813.9	3836.3	3929.2	4096.8	4347.6	4600.6	4762.9	4888.8	4908.0	4808.8	4295.3
32.5°	3725.3	3755.2	3851.3	4121.3	4440.5	4823.7	5025.4	5260.3	5251.7	5211.2	4703.1
35°	3588.7	3628.2	3775.5	4089.3	4545.1	5024.4	5292.3	5633.9	5640.3	5657.4	5090.6
37.5°	3478.7	3491.6	3659.1	3994.3	4586.7	5186.6	5541.0	6003.2	6106.7	6082.2	5530.3
40°	3302.6	3341.0	3522.5	3878.0	4582.5	5296.6	5794.0	6435.5	6491.0	6567.9	5990.4
42.5°	3085.9	3127.6	3301.6	3720.0	4522.7	5392.6	6037.4	6876.4	6954.3	7074.9	6412.0
45°	2877.8	2895.9	3059.2	3489.4	4406.3	5468.4	6274.3	7310.8	7430.4	7603.3	6836.9
47.5°	2618.4	2667.5	2850.0	3248.2	4149.1	5496.2	6449.4	7823.2	8043.1	8148.7	7321.5
50°	2014.2	2045.2	2557.6	3035.8	3869.4	5409.7	6676.8	8473.2	8612.0	8721.9	7812.5
52.5°	1775.1	1802.9	2001.4	2790.3	3557.7	5185.6	6815.5	9077.4	9245.0	9221.5	8305.6
55°	1674.8	1688.7	1774.1	2276.8	3273.8	4769.3	6912.7	9737.1	9827.8	9676.2	8794.5
57.5°	1558.4	1574.5	1638.5	1908.6	2953.6	4242.0	6831.5	10265.4	10299.6	10111.7	9230.0
60°	1454.9	1465.6	1561.6	1707.9	2605.6	3730.7	6626.6	10645.4	10740.4	10432.0	9699.7
62.5°	1366.3	1391.9	1442.1	1571.3	2362.2	3334.6	6107.8	10824.8	10959.3	10767.1	10011.4
65°	1278.8	1290.5	1348.2	1462.4	2100.7	3100.9	5811.1	10588.9	10745.8	10812.0	10203.5
67.5°	1159.2	1176.3	1232.9	1315.1	1752.7	2873.5	5118.3	10205.7	10429.8	10576.1	10089.3
70°	1019.4	1034.3	1092.0	1160.3	1463.4	2538.3	4319.9	9815.0	9962.3	9971.9	9579.1
72.5°	857.1	871.0	928.7	997.0	1214.7	2113.5	3385.9	8889.5	9219.4	9428.6	8723.0
75°	545.5	605.2	748.3	825.1	1000.2	1710.0	2415.6	7097.3	7964.1	8561.8	7548.8
77.5°	88.6	99.3	293.5	418.4	581.7	1159.2	1341.8	3932.4	4946.5	7155.0	6095.0
80°	67.2	75.8	106.7	283.9	373.6	721.6	528.4	1276.6	1539.2	3345.3	3414.7
82.5°	28.8	34.2	64.0	159.0	176.1	192.1	142.0	571.1	675.7	1017.3	1184.8
85°	9.6	12.8	29.9	50.2	55.5	42.7	31.0	226.3	278.6	487.8	451.5
87.5°	0.0	1.1	6.4	7.5	6.4	4.3	3.2	2.1	2.1	3.2	3.2
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°	2603.5	2603.5	2603.5	2603.5	2603.5	2603.5	2603.5	2603.5	2603.5	2603.5	2603.5
2.5°	2602.4	2566.1	2561.8	2518.1	2478.6	2433.7	2406.0	2396.4	2409.2	2422.0	2434.8
5°	2634.4	2578.9	2523.4	2432.7	2392.1	2343.0	2277.9	2238.4	2220.2	2236.3	2241.6
7.5°	2657.9	2586.4	2501.0	2377.2	2289.6	2195.7	2133.8	2067.6	2031.3	2037.7	2043.1
10°	2662.2	2583.2	2438.0	2318.5	2177.6	2048.4	1967.3	1936.3	1911.8	1890.4	1893.6
12.5°	2701.7	2585.3	2384.6	2239.5	2091.1	1924.6	1833.8	1794.3	1790.1	1746.3	1742.0
15°	2755.0	2632.3	2356.9	2167.9	1977.9	1821.0	1713.2	1642.8	1644.9	1622.5	1619.3
17.5°	2841.5	2678.2	2336.6	2084.7	1859.5	1715.4	1578.7	1514.7	1494.4	1488.0	1482.7
20°	2938.6	2745.4	2312.0	2011.0	1755.9	1588.3	1435.7	1370.6	1314.0	1296.9	1299.1
22.5°	3081.7	2834.0	2332.3	1955.5	1640.6	1464.5	1312.9	1185.9	1088.8	1063.2	1060.0
25°	3334.6	3009.1	2393.2	1907.5	1569.1	1343.9	1140.0	961.8	833.7	805.9	808.0
27.5°	3616.4	3239.6	2477.5	1887.2	1478.4	1210.5	929.7	731.2	611.6	579.6	581.7
30°	3950.5	3514.0	2605.6	1830.6	1381.2	1016.2	692.8	535.8	443.0	405.6	407.8
32.5°	4271.8	3788.3	2770.0	1822.1	1259.6	763.2	500.6	389.6	313.8	286.1	289.3
35°	4626.2	4102.1	2942.9	1779.4	1060.0	547.6	351.2	270.1	229.5	221.0	219.9
37.5°	5027.6	4381.8	3071.0	1739.9	793.1	385.3	240.2	208.1	202.8	191.1	191.1
40°	5400.1	4673.2	3167.1	1635.3	555.1	261.5	187.9	188.9	183.6	167.6	164.4
42.5°	5743.8	4974.2	3255.7	1467.7	375.7	178.3	168.7	171.9	174.0	155.8	151.6
45°	6133.4	5345.7	3236.4	1215.8	239.1	161.2	151.6	161.2	171.9	153.7	149.4
47.5°	6560.4	5617.9	3277.0	877.4	168.7	152.6	140.9	153.7	162.2	150.5	144.1
50°	7042.9	5974.4	3154.2	510.2	154.8	144.1	135.6	140.9	153.7	147.3	139.8
52.5°	7484.8	6292.5	2986.7	249.8	146.2	135.6	127.0	131.3	144.1	136.6	138.8
55°	7857.3	6623.4	2646.2	178.3	140.9	126.0	122.8	123.8	131.3	121.7	128.1
57.5°	8314.2	6895.6	2300.3	166.5	136.6	119.6	120.6	112.1	114.2	108.9	102.5
60°	8720.9	7152.8	1830.6	153.7	130.2	122.8	108.9	97.1	90.7	87.5	86.5
62.5°	9127.6	7348.2	1349.2	139.8	123.8	111.0	96.1	83.3	72.6	68.3	67.2
65°	9281.3	7452.8	921.2	128.1	116.3	101.4	85.4	67.2	55.5	51.2	48.0
67.5°	9167.1	7125.1	533.7	115.3	112.1	92.9	74.7	54.4	42.7	39.5	37.4
70°	8637.6	6610.6	285.0	104.6	98.2	82.2	66.2	44.8	34.2	29.9	28.8
72.5°	7727.1	5685.1	149.4	87.5	82.2	67.2	52.3	37.4	27.8	22.4	21.3
75°	6561.5	4462.9	104.6	64.0	56.6	52.3	39.5	29.9	22.4	17.1	16.0
77.5°	5179.2	2900.2	79.0	41.6	33.1	34.2	28.8	24.6	18.1	12.8	12.8
80°	2675.0	1507.2	59.8	27.8	19.2	20.3	20.3	18.1	13.9	9.6	9.6
82.5°	1061.0	555.1	41.6	16.0	11.7	12.8	11.7	11.7	9.6	6.4	6.4
85°	350.1	121.7	14.9	9.6	7.5	7.5	6.4	5.3	3.2	2.1	2.1
87.5°	3.2	3.2	4.3	5.3	5.3	4.3	3.2	1.1	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)