

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: P835843

Luminaire Tested: **ARCH3-100-740-U-T3**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P835843
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2310-189-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-100-740-U-T3
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 4000K, 805mA LIGHTSQUARE WITH 40 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

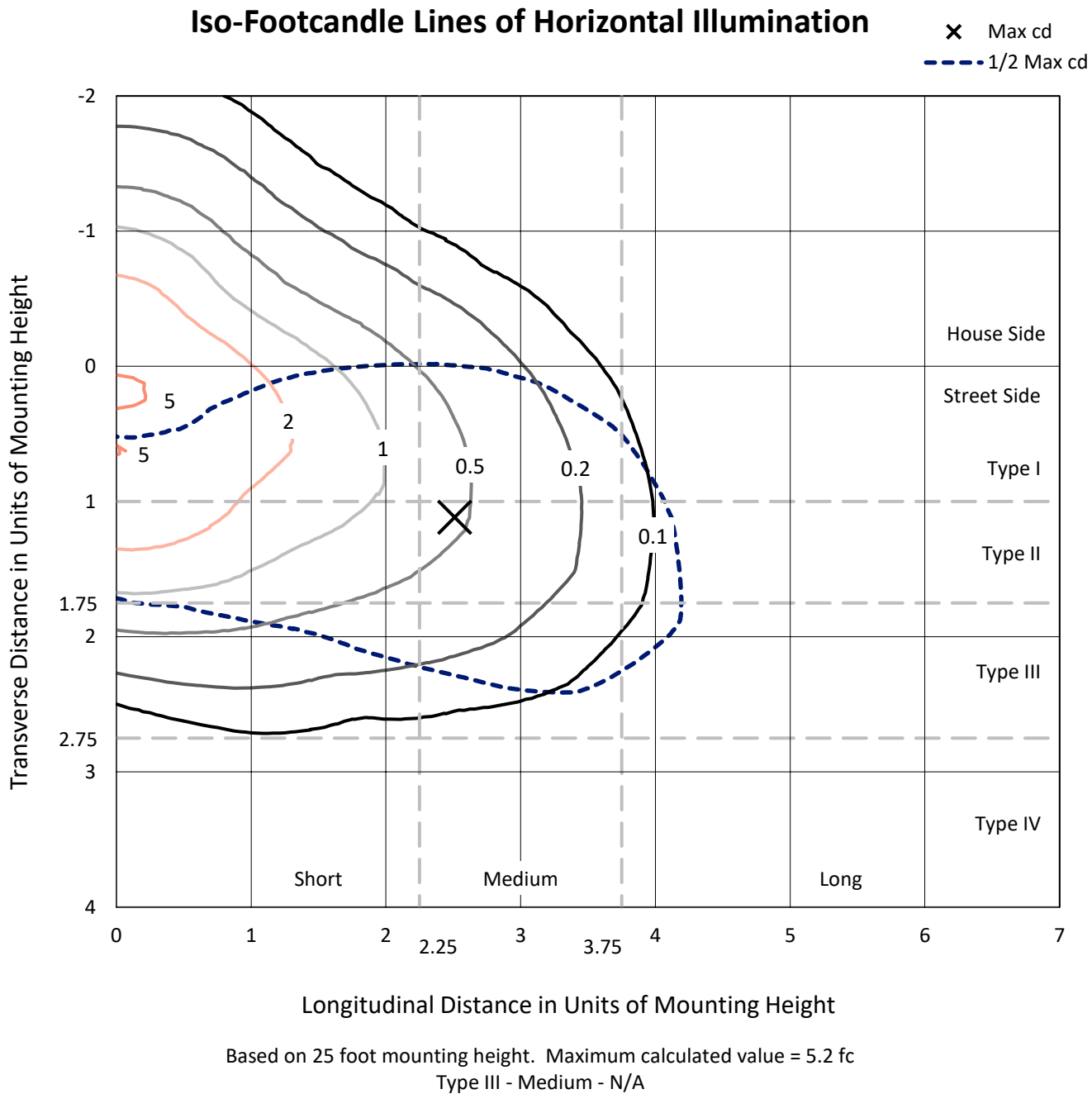
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16615 lumens
Efficiency: N/A
Efficacy: 161.9 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G3

Input Watts (W): 102.6
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

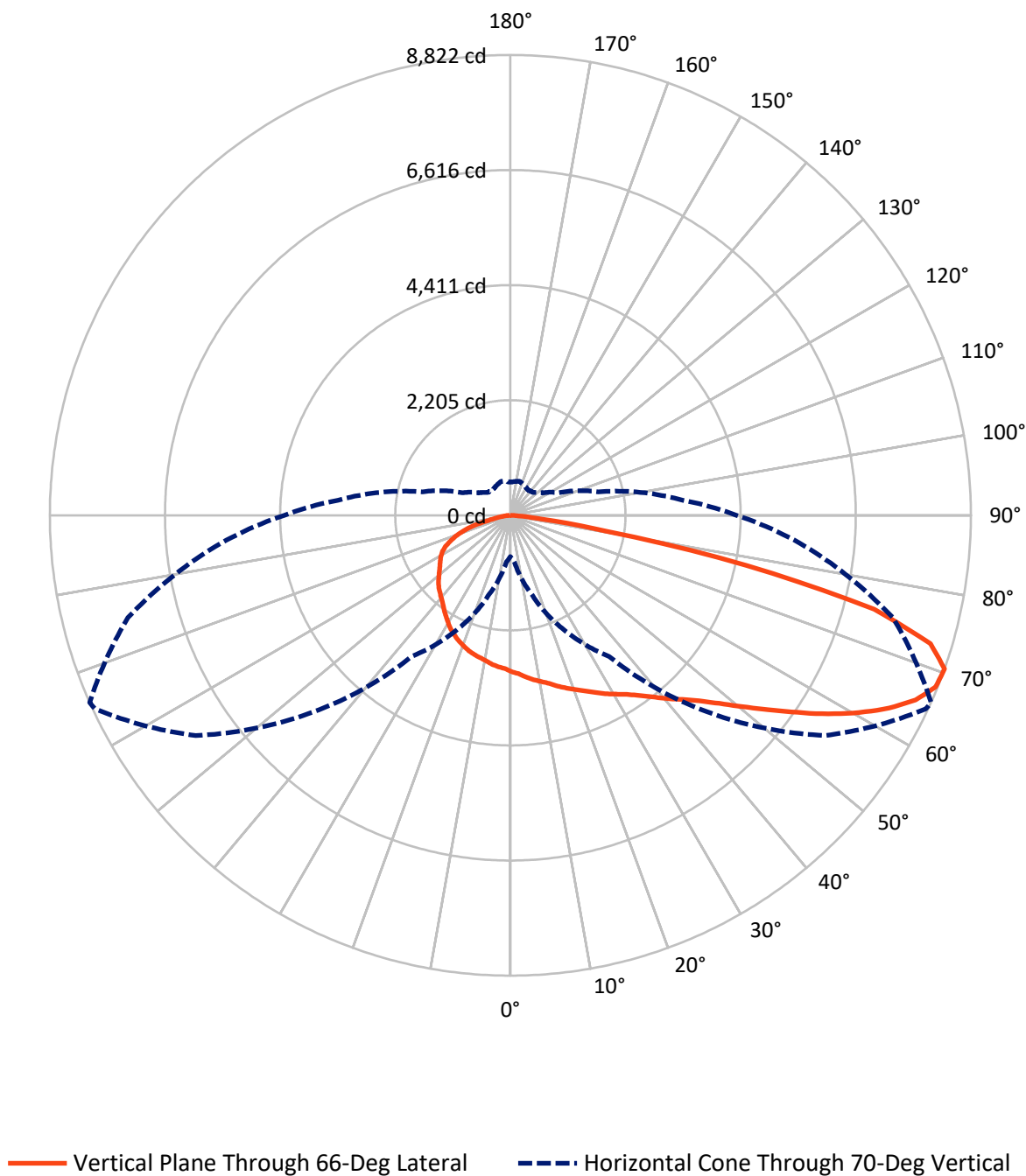


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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4402.6	0.0	4402.6
	% Fixture	26.5	0.0	26.5
Street Side	Lumens	12212.4	0.0	12212.4
	% Fixture	73.5	0.0	73.5
Total	Lumens	16615.0	0.0	16615.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	288.1	1.7
10°-20°	864.3	5.2
20°-30°	1448.9	8.7
30°-40°	2169.4	13.1
40°-50°	2900.5	17.5
50°-60°	3386.5	20.4
60°-70°	3367.3	20.3
70°-80°	1993.5	12.0
80°-90°	196.5	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°	16615.0	100.0
0°-180°	16615.0	100.0

Coefficient of Utilization



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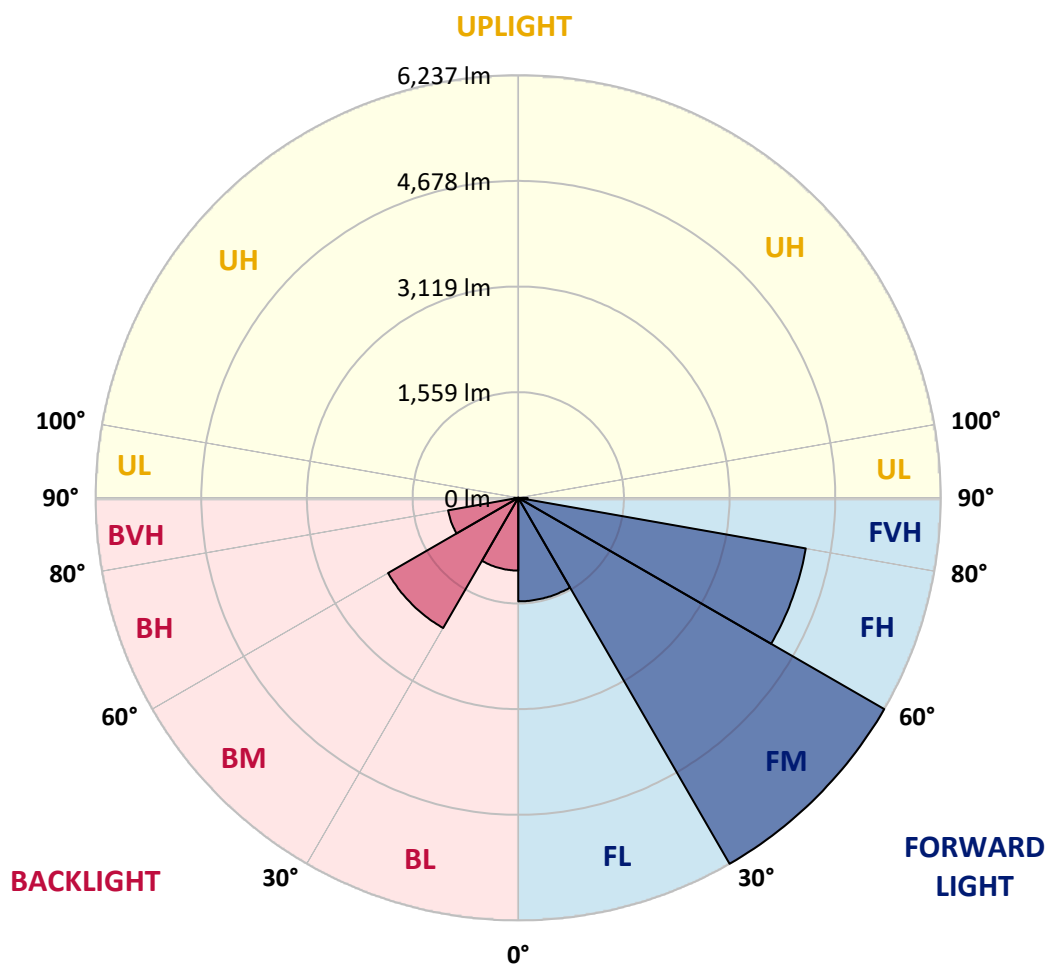
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1528.1	9.2			
FM	(30°-60°)	6237.0	37.5			
FH	(60°-80°)	4309.1	25.9			G2/5000
FVH	(80°-90°)	138.1	0.8			G2/225
BL	(0°-30°)	1073.2	6.5	B3/2500		
BM	(30°-60°)	2219.4	13.4	B2/2500		
BH	(60°-80°)	1051.7	6.3	B3/2500		G3/2500
BVH	(80°-90°)	58.4	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2998.6	2998.6	2998.6	2998.6	2998.6	2998.6	2998.6	2998.6	2998.6	2998.6	2998.6
2.5°	3108.9	3104.0	3101.5	3091.7	3069.7	3079.5	3057.4	3042.7	3040.3	3006.0	2986.4
5°	3236.3	3233.8	3228.9	3214.2	3179.9	3184.8	3148.1	3121.1	3113.8	3059.9	3018.2
7.5°	3344.1	3339.2	3336.7	3317.1	3280.4	3277.9	3233.8	3194.6	3182.4	3108.9	3045.2
10°	3427.4	3420.0	3424.9	3405.3	3366.1	3358.8	3302.4	3251.0	3238.7	3145.6	3057.4
12.5°	3498.4	3493.5	3500.9	3483.7	3451.9	3444.5	3388.2	3322.0	3307.3	3199.5	3084.4
15°	3576.8	3559.6	3574.3	3567.0	3544.9	3542.5	3491.1	3417.6	3398.0	3268.1	3126.0
17.5°	3618.4	3608.6	3625.8	3628.2	3618.4	3635.6	3586.6	3498.4	3481.3	3331.8	3162.8
20°	3647.8	3633.1	3652.7	3667.4	3674.8	3709.1	3669.9	3584.1	3564.5	3393.1	3197.1
22.5°	3748.3	3716.4	3718.9	3728.7	3733.6	3782.6	3758.1	3674.8	3655.2	3469.0	3238.7
25°	4000.6	3936.9	3895.3	3865.9	3831.6	3873.2	3858.5	3777.7	3760.5	3559.6	3290.2
27.5°	4392.6	4311.8	4228.5	4142.7	4008.0	3990.8	3966.3	3892.8	3873.2	3650.3	3341.6
30°	4838.5	4757.6	4659.6	4522.4	4270.1	4137.8	4081.5	4000.6	3978.6	3731.1	3390.6
32.5°	5281.9	5210.9	5112.9	4946.3	4586.1	4316.7	4196.6	4113.3	4091.3	3819.3	3449.4
35°	5627.3	5583.2	5519.5	5311.3	4899.7	4527.3	4363.2	4262.8	4238.3	3959.0	3557.2
37.5°	5906.6	5874.8	5820.9	5602.8	5127.6	4738.0	4554.3	4439.1	4412.2	4110.9	3672.3
40°	6318.2	6234.9	6190.8	5874.8	5326.0	4929.1	4769.9	4649.8	4620.4	4272.6	3765.4
42.5°	6668.5	6607.3	6553.4	6117.3	5514.6	5093.3	4973.2	4863.0	4823.8	4431.8	3865.9
45°	6727.3	6751.8	6724.9	6237.3	5813.5	5255.0	5179.0	5108.0	5071.2	4647.4	4017.8
47.5°	6729.8	6729.8	6570.5	6305.9	6183.4	5436.2	5399.5	5424.0	5384.8	4921.8	4199.1
50°	6553.4	6585.2	6501.9	6323.1	6281.4	5617.5	5669.0	5801.3	5762.1	5213.3	4395.0
52.5°	6188.3	6293.7	6291.2	6296.1	6139.4	5771.9	5953.2	6254.5	6188.3	5541.6	4603.3
55°	5544.0	5754.7	5943.4	6105.1	6016.9	5865.0	6301.0	6737.1	6668.5	5909.1	4814.0
57.5°	4992.8	5127.6	5362.7	5820.9	5872.3	5945.8	6626.9	7241.8	7180.5	6315.7	5034.5
60°	4363.2	4549.4	4784.6	5436.2	5695.9	6051.2	6984.6	7734.2	7675.4	6727.3	5247.6
62.5°	3395.5	3635.6	4106.0	4845.8	5438.7	6117.3	7266.3	8167.8	8140.9	7116.8	5438.7
65°	2366.6	2579.7	3238.7	4120.7	5029.6	6087.9	7491.7	8554.9	8530.4	7435.3	5573.4
67.5°	1381.7	1629.2	2373.9	3317.1	4306.9	5884.6	7565.2	8782.7	8782.7	7628.9	5610.2
70°	788.9	904.0	1565.5	2418.0	3302.4	5323.5	7359.4	8780.3	8821.9	7584.8	5458.3
72.5°	551.2	602.7	1053.4	1626.7	2239.2	4306.9	6820.4	8356.5	8412.8	7168.3	4938.9
75°	428.7	465.5	742.3	1109.8	1411.1	2925.1	5642.0	7045.8	7195.2	6110.0	3993.3
77.5°	325.8	352.8	433.6	693.3	904.0	1680.6	3723.8	4620.4	4630.2	3740.9	2141.2
80°	237.6	264.6	289.1	423.8	480.2	786.4	1406.2	1930.5	1876.6	1810.4	1158.8
82.5°	142.1	169.0	176.4	230.3	235.2	335.6	492.4	622.3	597.8	796.2	543.9
85°	61.2	85.7	90.6	105.3	100.4	137.2	196.0	164.1	147.0	169.0	117.6
87.5°	14.7	24.5	24.5	26.9	22.0	34.3	36.7	26.9	24.5	29.4	29.4
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°	2998.6	2998.6	2998.6	2998.6	2998.6	2998.6	2998.6	2998.6	2998.6	2998.6	2998.6
2.5°	2981.5	2974.1	2976.6	2934.9	2922.7	2910.4	2903.1	2898.2	2893.3	2900.6	2908.0
5°	3003.5	2986.4	2966.8	2905.5	2881.0	2854.1	2834.5	2817.3	2810.0	2810.0	2817.3
7.5°	3020.7	2991.3	2949.6	2868.8	2824.7	2787.9	2756.1	2734.0	2721.8	2721.8	2729.1
10°	3023.1	2981.5	2915.3	2817.3	2758.5	2704.6	2667.9	2643.4	2626.3	2626.3	2631.2
12.5°	3037.8	2981.5	2895.7	2778.1	2704.6	2638.5	2594.4	2557.7	2550.3	2550.3	2555.2
15°	3062.3	2993.7	2883.5	2743.8	2655.6	2579.7	2530.7	2491.5	2476.8	2486.6	2489.1
17.5°	3084.4	3001.1	2861.4	2699.7	2594.4	2511.1	2457.2	2422.9	2403.3	2425.4	2425.4
20°	3099.1	3001.1	2829.6	2643.4	2528.3	2435.2	2383.7	2342.1	2327.4	2354.3	2356.8
22.5°	3121.1	2998.6	2795.3	2587.1	2457.2	2359.2	2307.8	2275.9	2268.6	2298.0	2307.8
25°	3145.6	3003.5	2758.5	2523.4	2378.8	2283.3	2244.1	2229.4	2234.3	2271.0	2283.3
27.5°	3172.6	3013.3	2721.8	2452.3	2293.1	2207.3	2185.3	2192.6	2212.2	2258.8	2273.5
30°	3197.1	3015.8	2670.3	2369.0	2195.1	2114.2	2124.0	2155.9	2185.3	2231.8	2249.0
32.5°	3228.9	3018.2	2616.5	2278.4	2089.7	2030.9	2075.0	2126.5	2155.9	2200.0	2219.6
35°	3307.3	3059.9	2574.8	2190.2	1991.7	1959.9	2033.4	2099.5	2116.7	2155.9	2173.0
37.5°	3398.0	3128.5	2552.8	2099.5	1896.2	1888.8	1981.9	2048.1	2053.0	2077.5	2094.6
40°	3454.3	3157.9	2528.3	2023.6	1810.4	1815.3	1910.9	1962.3	1952.5	1969.7	1981.9
42.5°	3510.6	3167.7	2476.8	1959.9	1729.6	1734.5	1808.0	1844.7	1849.6	1886.4	1903.5
45°	3606.2	3194.6	2420.5	1901.1	1656.1	1639.0	1683.1	1732.1	1795.7	1866.8	1886.4
47.5°	3733.6	3251.0	2361.7	1830.0	1585.1	1528.7	1545.9	1631.6	1697.8	1763.9	1776.1
50°	3863.4	3307.3	2307.8	1744.3	1514.0	1411.1	1418.5	1496.9	1550.8	1602.2	1609.6
52.5°	3990.8	3356.3	2261.2	1663.5	1433.2	1271.5	1300.9	1381.7	1418.5	1443.0	1450.3
55°	4118.2	3398.0	2219.6	1594.9	1340.1	1161.2	1188.2	1264.1	1300.9	1313.1	1318.0
57.5°	4250.5	3447.0	2187.7	1536.1	1234.7	1063.2	1080.4	1134.3	1168.6	1183.3	1178.4
60°	4360.8	3488.6	2170.6	1474.8	1129.4	972.6	967.7	1016.7	1065.7	1080.4	1075.5
62.5°	4446.5	3515.5	2143.6	1396.4	1036.3	881.9	857.5	921.1	972.6	982.4	989.7
65°	4493.0	3518.0	2077.5	1296.0	940.7	784.0	766.8	830.5	862.4	872.2	872.2
67.5°	4485.7	3478.8	1947.6	1161.2	852.6	695.8	681.1	720.3	766.8	774.2	766.8
70°	4333.8	3317.1	1739.4	1019.1	747.2	617.4	590.4	629.6	673.7	646.8	634.5
72.5°	3902.6	2898.2	1433.2	862.4	629.6	519.4	507.1	546.3	548.8	553.7	541.4
75°	3079.5	2158.3	1073.0	671.3	509.6	436.1	433.6	426.3	436.1	455.7	441.0
77.5°	1616.9	1077.9	580.6	411.6	369.9	350.3	333.2	330.7	360.1	372.4	357.7
80°	877.1	605.1	333.2	247.4	225.4	227.8	249.9	245.0	276.8	284.2	271.9
82.5°	382.2	286.6	164.1	149.4	149.4	147.0	154.3	171.5	205.8	205.8	164.1
85°	83.3	71.0	63.7	73.5	83.3	83.3	83.3	83.3	58.8	31.8	22.0
87.5°	26.9	26.9	26.9	29.4	31.8	31.8	26.9	19.6	12.2	2.4	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)