

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: P836214

Luminaire Tested: **ARCH3-150-750-U-T4W**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836214
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2310-189-19)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-150-750-U-T4W
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5000K, 1170mA LIGHTSQUARE WITH 40 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21826 lumens
Efficiency: N/A
Efficacy: 144.8 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 150.7
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



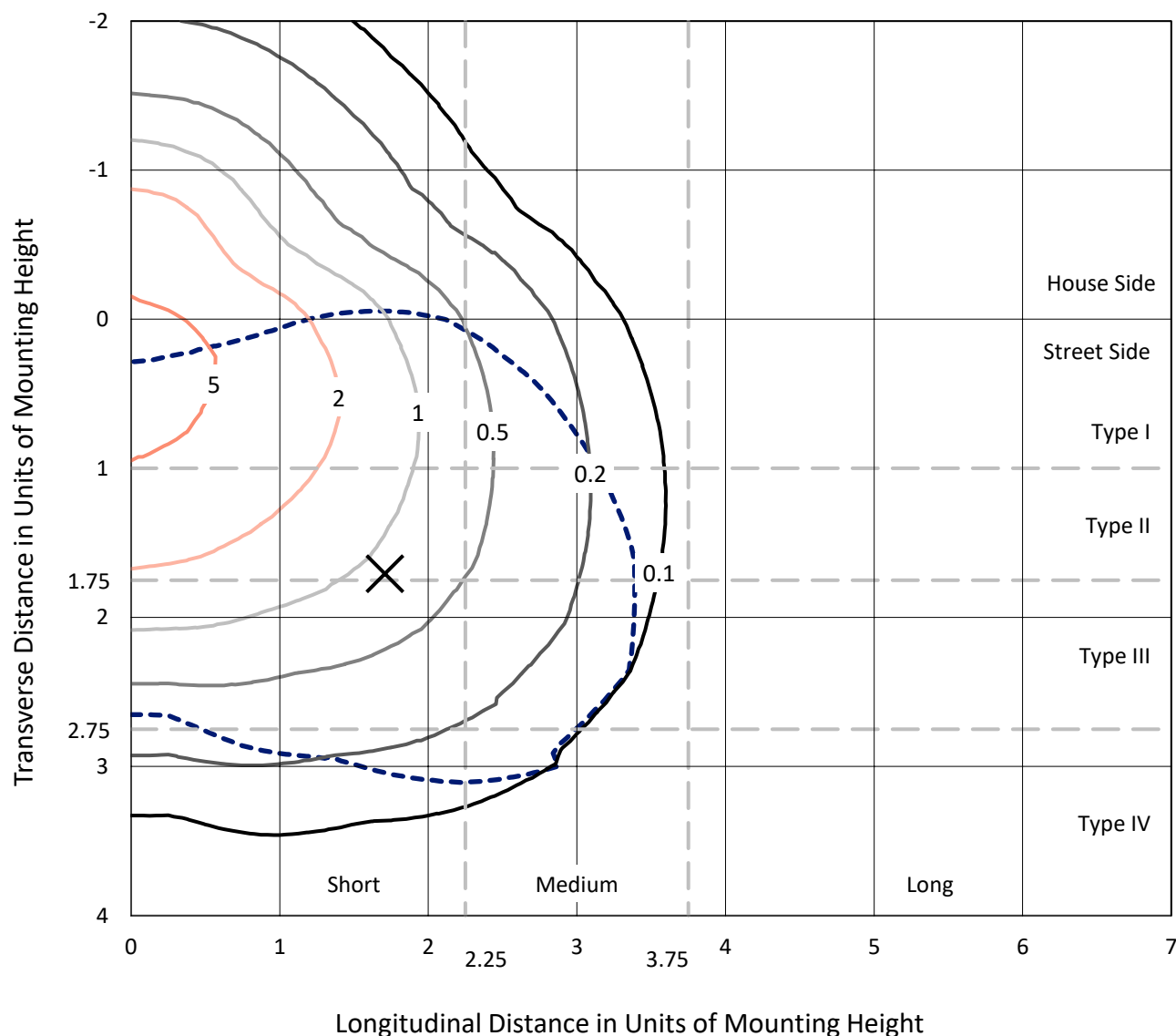
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

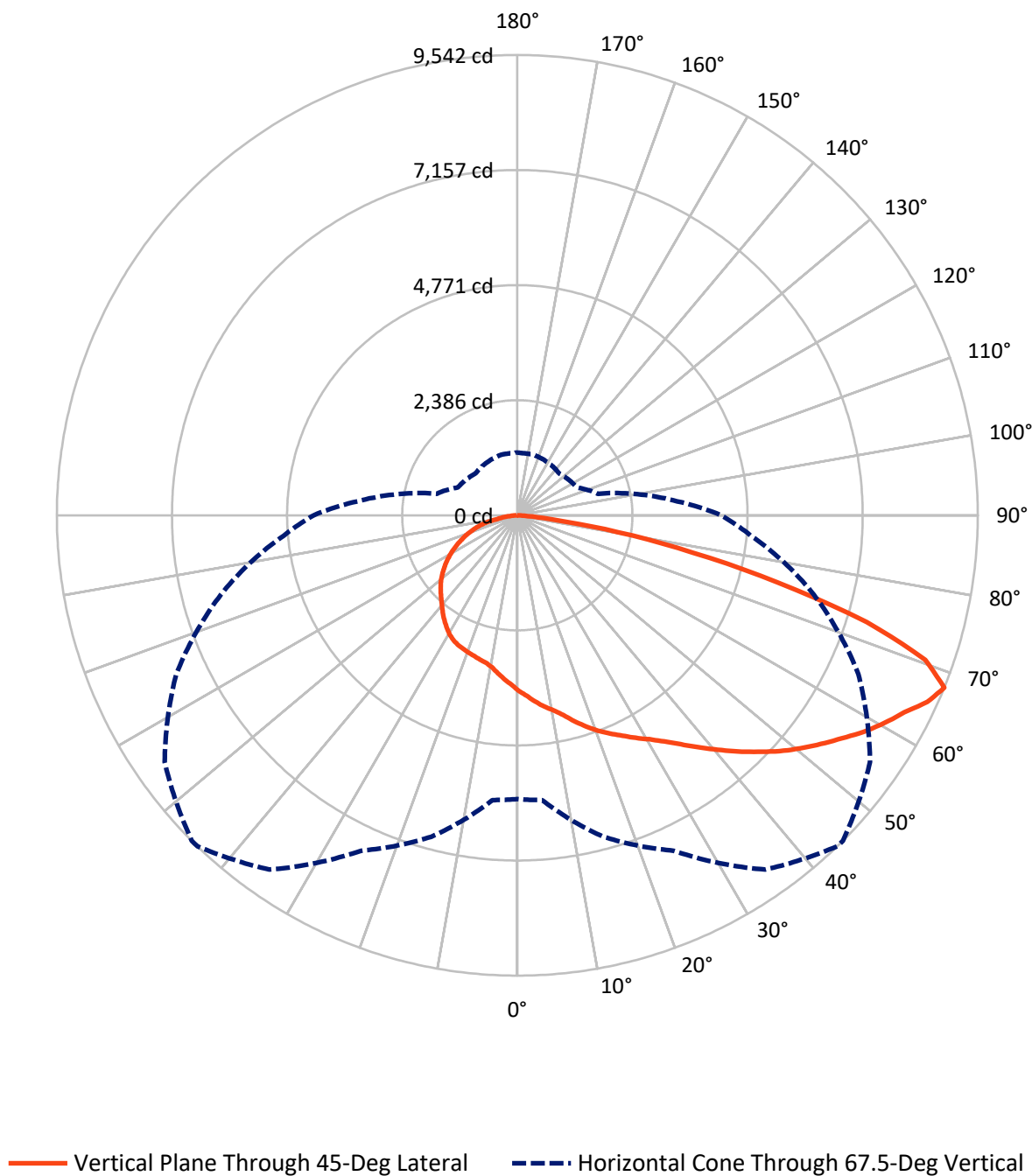


Based on 25 foot mounting height. Maximum calculated value = 6.8 fc

Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5830.8	0.0	5830.8
	% Fixture	26.7	0.0	26.7
Street Side	Lumens	15995.2	0.0	15995.2
	% Fixture	73.3	0.0	73.3
Total	Lumens	21826.0	0.0	21826.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	348.5	1.6
10°-20°	1076.6	4.9
20°-30°	1858.4	8.5
30°-40°	2740.5	12.6
40°-50°	3712.9	17.0
50°-60°	4538.0	20.8
60°-70°	4680.3	21.4
70°-80°	2563.5	11.7
80°-90°	307.3	1.4
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°	21826.0	100.0
0°-180°	21826.0	100.0

Coefficient of Utilization



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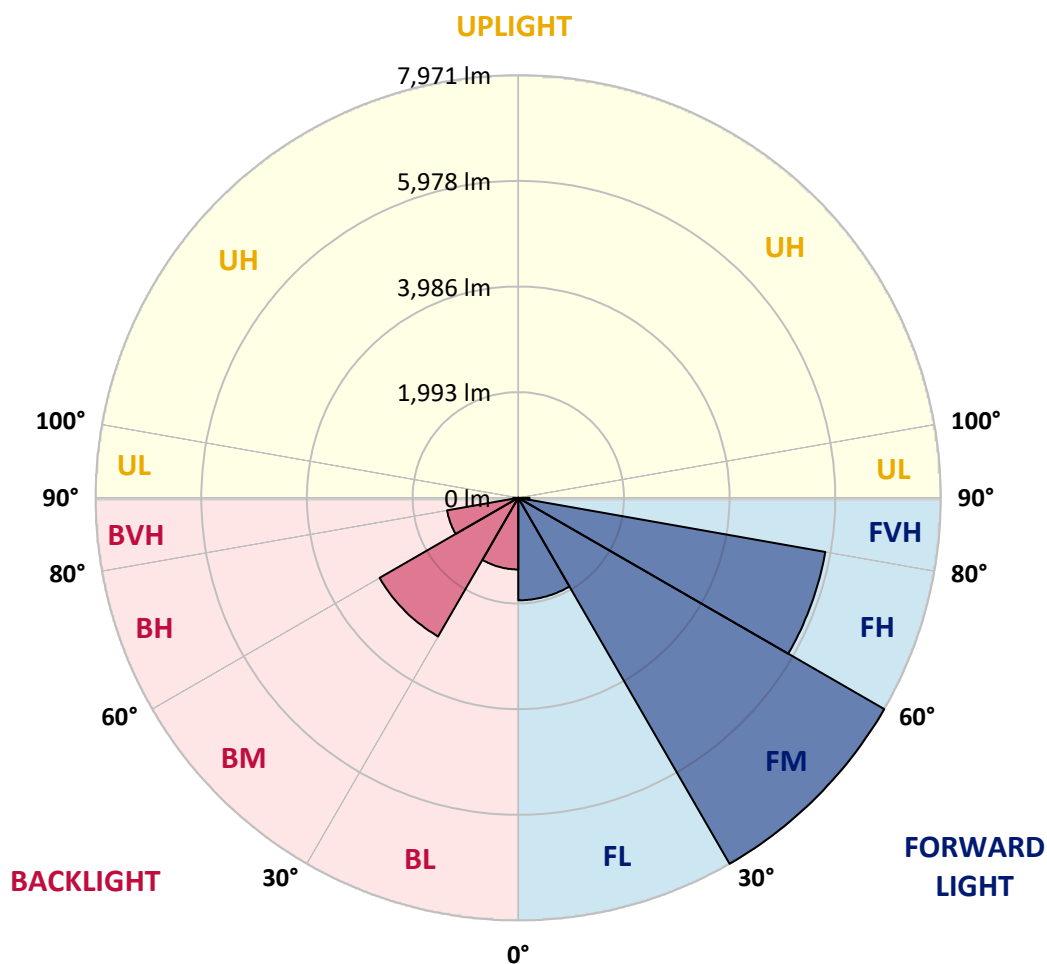
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1932.2	8.9			
FM	(30°-60°)	7971.1	36.5			
FH	(60°-80°)	5880.3	26.9			G3/7500
FVH	(80°-90°)	211.7	1.0			G2/225
BL	(0°-30°)	1351.4	6.2	B3/2500		
BM	(30°-60°)	3020.3	13.8	B3/5000		
BH	(60°-80°)	1363.6	6.2	B3/2500		G3/2500
BVH	(80°-90°)	95.6	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 IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	3640.2	3640.2	3640.2	3640.2	3640.2	3640.2	3640.2	3640.2	3640.2	3640.2	3640.2
2.5°	3799.6	3796.3	3802.9	3779.7	3749.8	3746.4	3746.4	3726.5	3703.3	3656.8	3620.2
5°	3978.9	3972.3	3975.6	3942.4	3902.5	3882.6	3879.3	3836.1	3783.0	3709.9	3643.5
7.5°	4145.0	4138.4	4135.0	4098.5	4038.7	4005.5	4002.2	3939.1	3876.0	3763.1	3666.7
10°	4301.1	4294.5	4287.8	4238.0	4164.9	4115.1	4108.5	4028.8	3949.0	3809.5	3686.7
12.5°	4500.4	4487.1	4480.5	4420.7	4314.4	4261.2	4251.3	4145.0	4045.4	3876.0	3726.5
15°	4709.6	4699.7	4689.7	4633.2	4513.7	4443.9	4427.3	4294.5	4158.3	3962.3	3786.3
17.5°	4865.7	4855.8	4855.8	4805.9	4696.3	4616.6	4603.3	4443.9	4274.5	4042.0	3832.8
20°	4962.0	4952.1	4962.0	4932.2	4849.1	4782.7	4769.4	4593.4	4390.8	4115.1	3872.7
22.5°	5031.8	5021.8	5038.4	5025.2	4965.4	4925.5	4915.5	4742.8	4510.3	4191.5	3912.5
25°	5154.7	5154.7	5154.7	5131.4	5075.0	5061.7	5061.7	4912.2	4663.1	4291.1	3972.3
27.5°	5400.5	5387.2	5370.6	5304.1	5207.8	5204.5	5224.4	5084.9	4839.2	4420.7	4045.4
30°	5762.5	5755.8	5692.7	5553.2	5390.5	5373.9	5387.2	5270.9	5028.5	4556.8	4128.4
32.5°	6230.8	6207.5	6078.0	5868.8	5636.3	5559.9	5586.5	5463.6	5227.8	4696.3	4208.1
35°	6562.9	6569.6	6476.6	6287.3	6011.6	5809.0	5828.9	5679.5	5443.6	4852.4	4307.7
37.5°	6944.9	6968.1	6828.6	6685.8	6430.1	6084.7	6104.6	5902.0	5659.5	5048.4	4414.0
40°	7473.0	7426.5	7190.7	7021.3	6739.0	6373.6	6390.2	6151.1	5908.6	5234.4	4536.9
42.5°	7914.7	7831.7	7546.0	7330.1	6991.4	6679.2	6695.8	6420.1	6161.0	5440.3	4673.1
45°	8549.1	8319.9	7908.1	7801.8	7250.4	6978.1	6994.7	6705.7	6426.7	5659.5	4819.2
47.5°	8917.7	8552.4	8290.0	8233.5	7536.1	7287.0	7306.9	7008.0	6712.4	5908.6	4972.0
50°	8894.5	8658.7	8582.3	8442.8	7788.5	7575.9	7595.9	7320.2	7001.3	6154.4	5118.1
52.5°	8741.7	8784.9	8745.0	8512.5	8040.9	7854.9	7878.2	7629.1	7296.9	6383.6	5254.3
55°	8977.5	9007.4	8931.0	8625.5	8319.9	8133.9	8160.5	7954.6	7589.2	6586.2	5370.6
57.5°	9259.8	9153.5	9077.2	8824.7	8608.9	8436.1	8466.0	8286.7	7841.6	6748.9	5460.2
60°	9246.5	9024.0	9100.4	8838.0	8804.8	8715.1	8741.7	8559.0	8034.3	6868.5	5496.8
62.5°	8565.7	8446.1	8831.4	8741.7	8964.2	8964.2	8997.4	8725.1	8150.5	6918.3	5476.9
65°	7383.3	7389.9	8067.5	8439.5	9153.5	9306.3	9332.9	8828.1	8084.1	6772.2	5290.9
67.5°	5882.1	5925.2	6898.4	7672.2	8964.2	9538.8	9542.1	8921.1	7798.5	6360.3	4859.1
70°	4304.4	4337.6	5486.8	6426.7	8070.8	9024.0	8970.9	8658.7	7177.4	5642.9	4184.9
72.5°	2909.5	2939.4	4121.8	4935.5	6622.7	7685.5	7569.3	7652.3	6117.9	4636.6	3364.5
75°	1956.3	1992.8	2932.7	3530.6	4872.4	5835.6	5576.5	5795.7	4732.9	3510.6	2454.5
77.5°	1232.2	1255.5	1863.3	2315.0	3328.0	3972.3	3713.2	3716.6	2726.8	1889.8	1318.6
80°	783.8	790.5	1129.2	1335.2	1926.4	2388.0	2112.4	1717.1	1228.9	1003.0	787.2
82.5°	455.0	445.1	674.2	753.9	916.7	906.7	750.6	710.8	538.1	501.5	401.9
85°	182.7	169.4	295.6	275.7	279.0	295.6	219.2	219.2	176.0	136.2	99.6
87.5°	36.5	36.5	39.9	36.5	36.5	39.9	29.9	29.9	26.6	26.6	26.6
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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CATALOG NUMBER: ARCH3-150-750-U-T4W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3640.2	3640.2	3640.2	3640.2	3640.2	3640.2	3640.2	3640.2	3640.2	3640.2	3640.2
2.5°	3613.6	3606.9	3590.3	3547.2	3523.9	3510.6	3490.7	3484.1	3480.7	3484.1	3494.0
5°	3623.6	3600.3	3553.8	3484.1	3437.6	3407.7	3374.5	3361.2	3351.2	3351.2	3361.2
7.5°	3630.2	3593.7	3514.0	3411.0	3344.6	3298.1	3258.2	3241.6	3238.3	3248.2	3251.6
10°	3633.5	3580.4	3467.5	3337.9	3251.6	3191.8	3151.9	3142.0	3151.9	3171.9	3175.2
12.5°	3656.8	3583.7	3440.9	3288.1	3185.1	3125.4	3095.5	3095.5	3122.0	3158.6	3161.9
15°	3696.6	3606.9	3427.6	3248.2	3142.0	3088.8	3078.9	3095.5	3135.3	3191.8	3198.4
17.5°	3726.5	3620.2	3397.7	3195.1	3085.5	3052.3	3068.9	3108.8	3165.2	3241.6	3248.2
20°	3746.4	3620.2	3354.5	3132.0	3029.0	3022.4	3068.9	3132.0	3191.8	3281.5	3291.4
22.5°	3766.4	3613.6	3304.7	3055.6	2965.9	2985.9	3072.2	3151.9	3211.7	3308.0	3324.6
25°	3802.9	3623.6	3254.9	2979.2	2899.5	2956.0	3068.9	3165.2	3228.3	3328.0	3354.5
27.5°	3852.7	3646.8	3218.4	2909.5	2833.1	2909.5	3045.6	3161.9	3228.3	3324.6	3354.5
30°	3905.9	3673.4	3175.2	2833.1	2756.7	2843.0	2995.8	3125.4	3201.7	3291.4	3328.0
32.5°	3962.3	3703.3	3138.6	2750.1	2663.7	2753.4	2922.8	3068.9	3151.9	3235.0	3274.8
35°	4038.7	3756.4	3118.7	2683.6	2580.7	2660.4	2829.8	2995.8	3085.5	3161.9	3208.4
37.5°	4131.7	3822.8	3108.8	2617.2	2491.0	2557.4	2730.1	2906.2	3002.5	3065.6	3108.8
40°	4238.0	3905.9	3105.4	2554.1	2401.3	2451.1	2627.2	2803.2	2896.2	2946.0	2982.5
42.5°	4357.6	3998.9	3098.8	2491.0	2311.6	2351.5	2527.5	2700.2	2779.9	2823.1	2856.3
45°	4483.8	4091.9	3085.5	2414.6	2215.3	2261.8	2424.6	2577.3	2660.4	2696.9	2733.4
47.5°	4610.0	4184.9	3058.9	2328.2	2129.0	2172.1	2315.0	2447.8	2514.2	2547.4	2584.0
50°	4732.9	4267.9	2995.8	2228.6	2039.3	2079.1	2188.7	2278.4	2328.2	2354.8	2391.3
52.5°	4842.5	4324.4	2906.2	2112.4	1949.6	1969.5	2042.6	2119.0	2158.9	2162.2	2195.4
55°	4935.5	4354.2	2776.6	1992.8	1853.3	1856.6	1896.5	1956.3	1972.9	1959.6	1982.8
57.5°	4988.6	4337.6	2633.8	1869.9	1753.7	1740.4	1770.3	1800.2	1803.5	1770.3	1793.5
60°	5001.9	4261.2	2447.8	1747.0	1654.0	1617.5	1627.4	1620.8	1614.2	1600.9	1620.8
62.5°	4935.5	4098.5	2241.9	1627.4	1547.7	1491.3	1487.9	1484.6	1494.6	1497.9	1501.2
65°	4693.0	3792.9	1996.1	1504.6	1434.8	1358.4	1355.1	1395.0	1408.2	1388.3	1395.0
67.5°	4224.7	3324.6	1727.1	1361.7	1292.0	1225.6	1252.1	1275.4	1298.6	1292.0	1298.6
70°	3560.5	2730.1	1481.3	1202.3	1135.9	1099.4	1129.2	1149.2	1152.5	1145.9	1152.5
72.5°	2799.9	2132.3	1252.1	1039.6	979.8	963.2	999.7	1016.3	1046.2	1059.5	1062.8
75°	2022.7	1574.3	1026.3	863.5	813.7	813.7	846.9	876.8	903.4	886.8	876.8
77.5°	1129.2	939.9	737.3	594.5	604.5	651.0	664.3	697.5	724.0	720.7	714.1
80°	684.2	587.9	498.2	385.3	382.0	418.5	504.8	561.3	574.6	544.7	541.4
82.5°	355.4	308.9	265.7	215.9	239.1	279.0	292.3	352.1	388.6	375.3	391.9
85°	89.7	86.4	96.3	99.6	122.9	136.2	149.5	176.0	116.2	56.5	56.5
87.5°	26.6	26.6	33.2	33.2	43.2	53.1	49.8	49.8	26.6	3.3	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)