

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: P836455

Luminaire Tested: **ARCH3-190-722-U-T3**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836455
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: ARCH3-190-722-U-T3
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2200K, 1440mA LIGHTSQUARE WITH 40 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21583 lumens
Efficiency: N/A
Efficacy: 114.0 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): 189.4
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

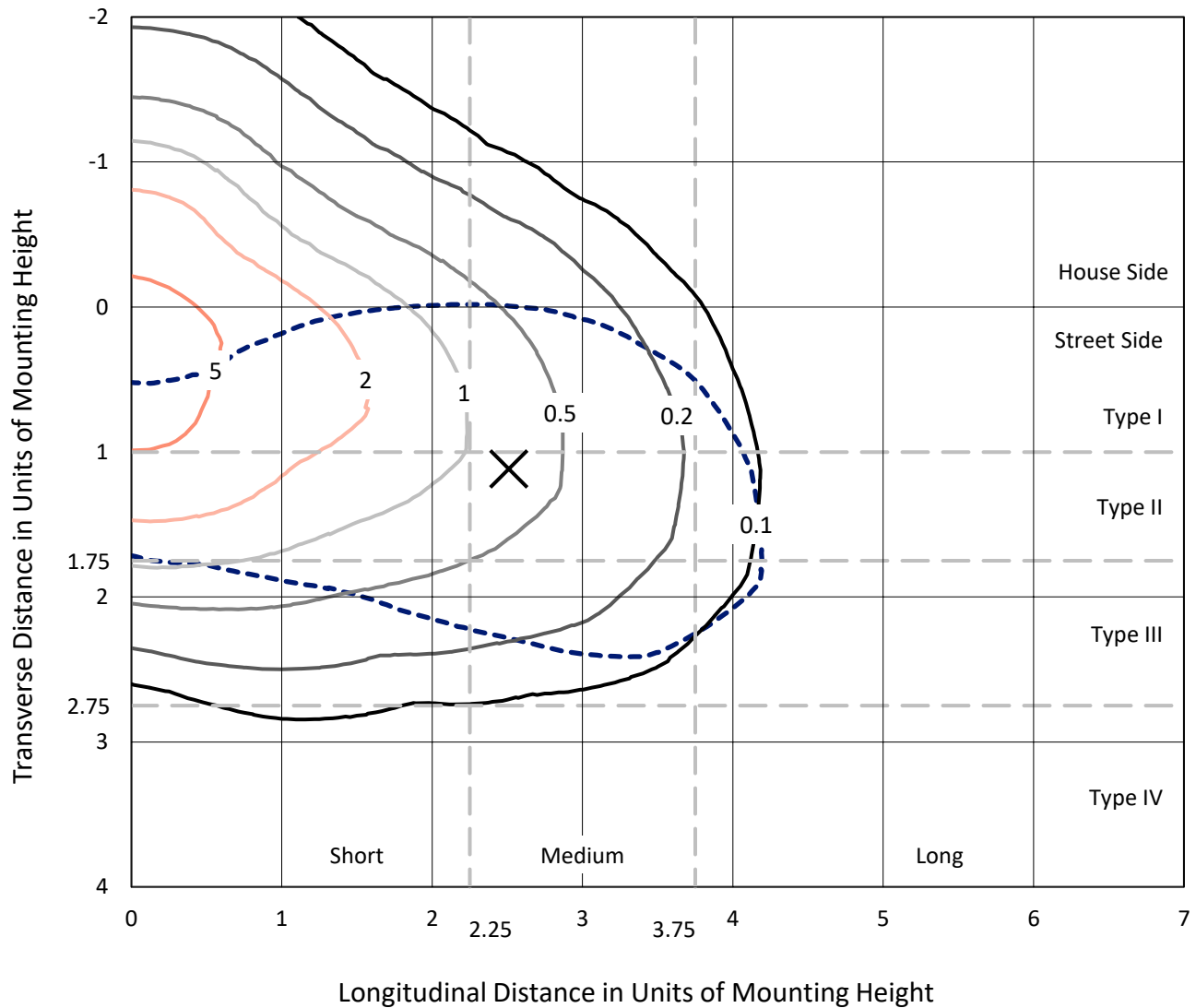


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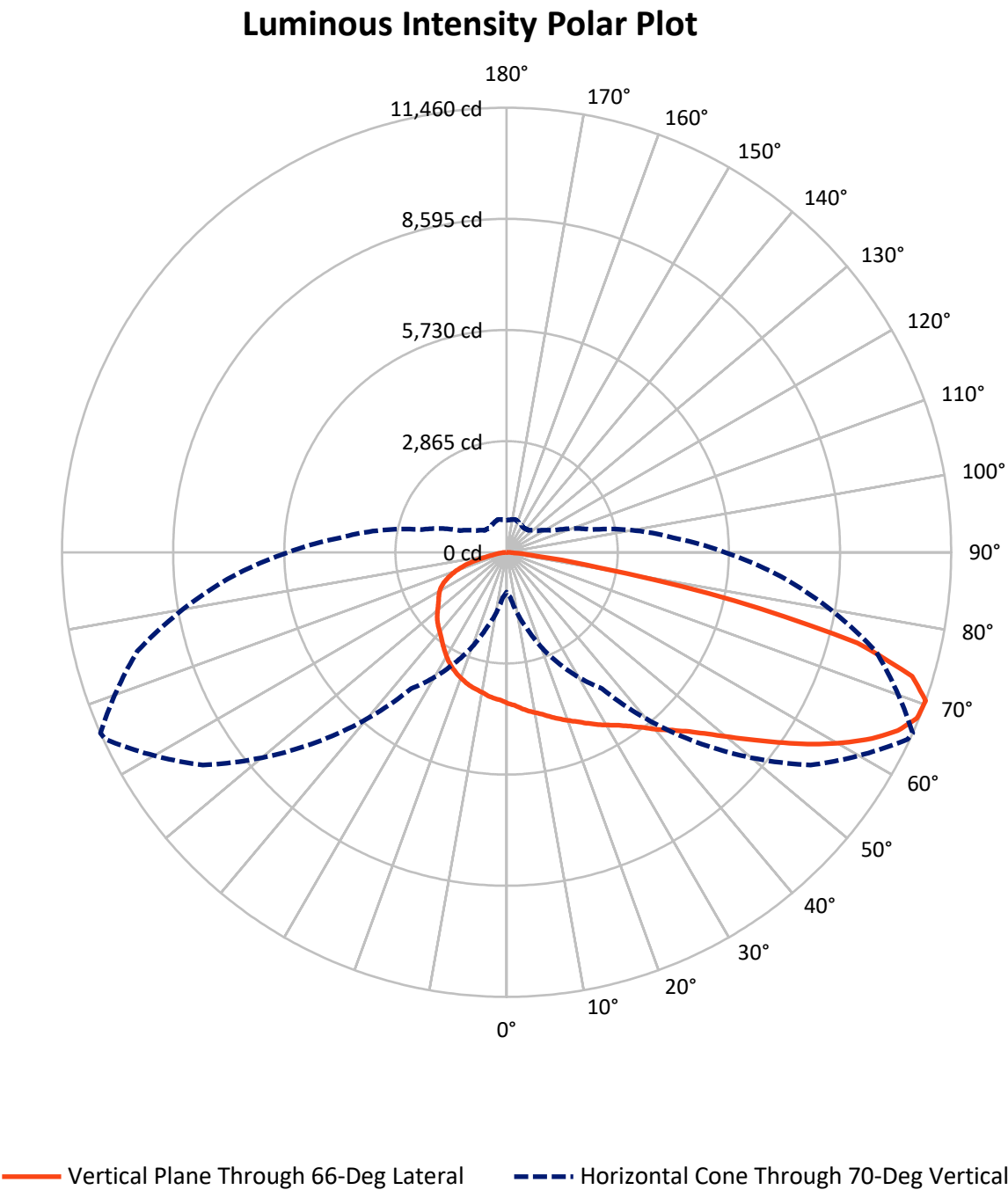
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 fc
 Type III - Medium - N/A

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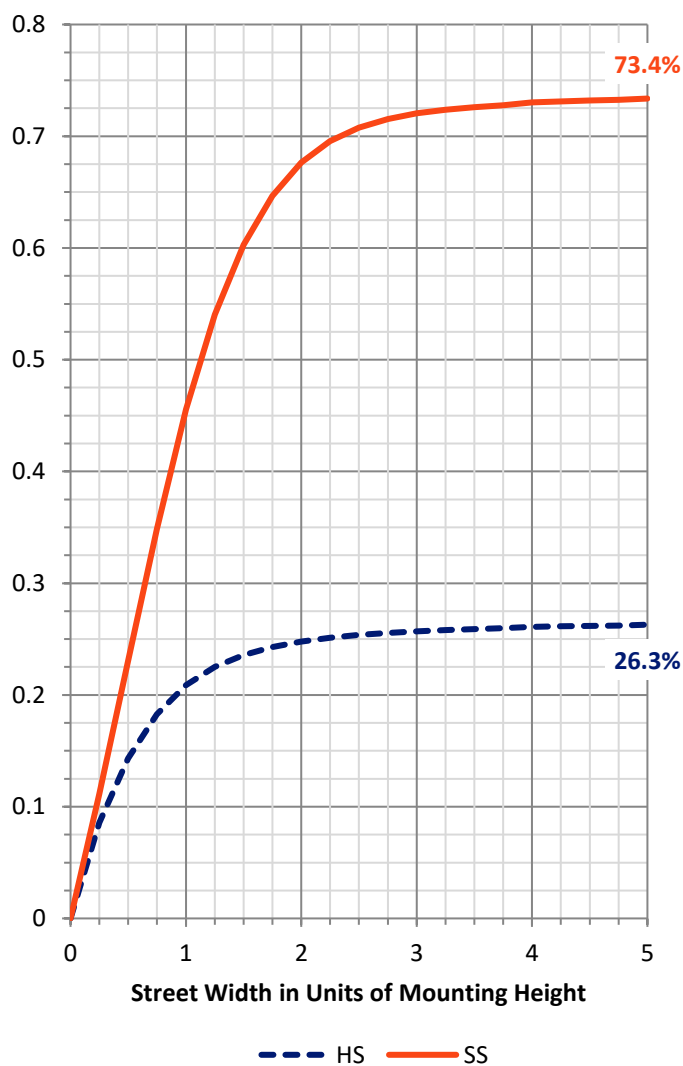
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5719.0	0.0	5719.0
	% Fixture	26.5	0.0	26.5
Street Side	Lumens	15864.0	0.0	15864.0
	% Fixture	73.5	0.0	73.5
Total	Lumens	21583.0	0.0	21583.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	374.3	1.7
10°-20°	1122.7	5.2
20°-30°	1882.1	8.7
30°-40°	2818.1	13.1
40°-50°	3767.8	17.5
50°-60°	4399.0	20.4
60°-70°	4374.2	20.3
70°-80°	2589.6	12.0
80°-90°	255.2	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°	21583.0	100.0
0°-180°	21583.0	100.0

Coefficient of Utilization



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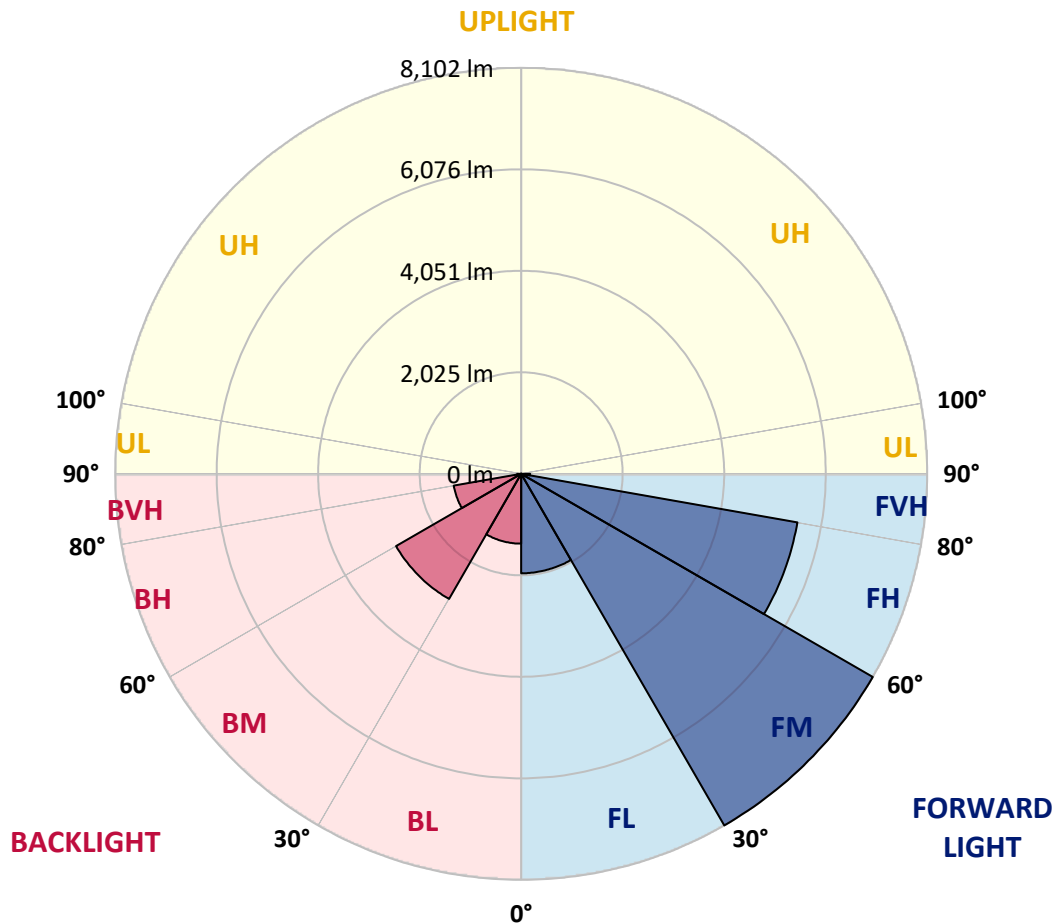
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1985.1	9.2			
FM	(30°-60°)	8102.0	37.5			
FH	(60°-80°)	5597.6	25.9			G3/7500
FVH	(80°-90°)	179.4	0.8			G2/225
BL	(0°-30°)	1394.0	6.5	B3/2500		
BM	(30°-60°)	2883.0	13.4	B3/5000		
BH	(60°-80°)	1366.1	6.3	B3/2500		G3/2500
BVH	(80°-90°)	75.9	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°	3895.2	3895.2	3895.2	3895.2	3895.2	3895.2	3895.2	3895.2	3895.2	3895.2	3895.2
2.5°	4038.4	4032.1	4028.9	4016.2	3987.5	4000.3	3971.6	3952.5	3949.3	3904.8	3879.3
5°	4203.9	4200.7	4194.4	4175.3	4130.7	4137.1	4089.4	4054.4	4044.8	3974.8	3920.7
7.5°	4344.0	4337.6	4334.4	4309.0	4261.2	4258.0	4200.7	4149.8	4133.9	4038.4	3955.7
10°	4452.2	4442.6	4449.0	4423.5	4372.6	4363.1	4289.9	4223.0	4207.1	4086.2	3971.6
12.5°	4544.4	4538.1	4547.6	4525.4	4484.0	4474.4	4401.2	4315.3	4296.2	4156.2	4006.6
15°	4646.3	4624.0	4643.1	4633.6	4604.9	4601.7	4534.9	4439.4	4414.0	4245.3	4060.7
17.5°	4700.4	4687.7	4709.9	4713.1	4700.4	4722.7	4659.0	4544.4	4522.2	4328.0	4108.5
20°	4738.6	4719.5	4744.9	4764.0	4773.6	4818.1	4767.2	4655.8	4630.4	4407.6	4153.0
22.5°	4869.0	4827.7	4830.9	4843.6	4850.0	4913.6	4881.8	4773.6	4748.1	4506.3	4207.1
25°	5196.8	5114.1	5060.0	5021.8	4977.3	5031.4	5012.3	4907.2	4885.0	4624.0	4273.9
27.5°	5706.0	5601.0	5492.8	5381.4	5206.4	5184.1	5152.3	5056.8	5031.4	4741.8	4340.8
30°	6285.2	6180.2	6052.9	5874.7	5546.9	5375.0	5301.9	5196.8	5168.2	4846.8	4404.4
32.5°	6861.2	6768.9	6641.6	6425.2	5957.4	5607.4	5451.4	5343.2	5314.6	4961.3	4480.8
35°	7309.9	7252.7	7169.9	6899.4	6364.8	5881.0	5667.8	5537.4	5505.5	5142.7	4620.8
37.5°	7672.7	7631.4	7561.3	7278.1	6660.7	6154.7	5916.1	5766.5	5731.5	5340.0	4770.4
40°	8207.4	8099.2	8041.9	7631.4	6918.5	6403.0	6196.1	6040.2	6002.0	5550.1	4891.3
42.5°	8662.5	8582.9	8512.9	7946.4	7163.6	6616.2	6460.2	6317.0	6266.1	5756.9	5021.8
45°	8738.8	8770.7	8735.6	8102.4	7551.8	6826.2	6727.6	6635.3	6587.5	6037.0	5219.1
47.5°	8742.0	8742.0	8535.2	8191.5	8032.3	7061.7	7014.0	7045.8	6994.9	6393.4	5454.6
50°	8512.9	8554.3	8446.1	8213.7	8159.6	7297.2	7364.0	7535.9	7485.0	6772.1	5709.2
52.5°	8038.7	8175.5	8172.4	8178.7	7975.1	7497.7	7733.2	8124.6	8038.7	7198.6	5979.7
55°	7201.7	7475.4	7720.5	7930.5	7815.9	7618.6	8185.1	8751.6	8662.5	7675.9	6253.4
57.5°	6485.7	6660.7	6966.2	7561.3	7628.2	7723.6	8608.4	9407.1	9327.6	8204.2	6539.8
60°	5667.8	5909.7	6215.2	7061.7	7399.0	7860.5	9073.0	10046.8	9970.4	8738.8	6816.7
62.5°	4410.8	4722.7	5333.7	6294.8	7064.9	7946.4	9439.0	10610.1	10575.1	9244.8	7064.9
65°	3074.2	3351.1	4207.1	5352.8	6533.4	7908.2	9731.7	11112.9	11081.1	9658.5	7239.9
67.5°	1794.9	2116.3	3083.7	4309.0	5594.6	7644.1	9827.2	11408.9	11408.9	9909.9	7287.7
70°	1024.7	1174.3	2033.5	3141.0	4289.9	6915.3	9559.9	11405.7	11459.8	9852.7	7090.4
72.5°	716.0	782.9	1368.4	2113.1	2908.7	5594.6	8859.8	10855.1	10928.3	9311.7	6415.7
75°	556.9	604.7	964.3	1441.6	1833.1	3799.8	7329.0	9152.5	9346.7	7936.9	5187.3
77.5°	423.3	458.3	563.3	900.6	1174.3	2183.1	4837.2	6002.0	6014.7	4859.5	2781.4
80°	308.7	343.7	375.5	550.6	623.7	1021.5	1826.7	2507.7	2437.7	2351.8	1505.3
82.5°	184.6	219.6	229.1	299.1	305.5	436.0	639.7	808.3	776.5	1034.3	706.5
85°	79.6	111.4	117.7	136.8	130.5	178.2	254.6	213.2	190.9	219.6	152.8
87.5°	19.1	31.8	31.8	35.0	28.6	44.6	47.7	35.0	31.8	38.2	38.2
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°	3895.2	3895.2	3895.2	3895.2	3895.2	3895.2	3895.2	3895.2	3895.2	3895.2	3895.2
2.5°	3873.0	3863.4	3866.6	3812.5	3796.6	3780.7	3771.1	3764.8	3758.4	3767.9	3777.5
5°	3901.6	3879.3	3853.9	3774.3	3742.5	3707.5	3682.0	3659.7	3650.2	3650.2	3659.7
7.5°	3923.9	3885.7	3831.6	3726.6	3669.3	3621.6	3580.2	3551.5	3535.6	3535.6	3545.2
10°	3927.1	3873.0	3787.0	3659.7	3583.4	3513.4	3465.6	3433.8	3411.5	3411.5	3417.9
12.5°	3946.2	3873.0	3761.6	3608.8	3513.4	3427.4	3370.1	3322.4	3312.9	3312.9	3319.2
15°	3978.0	3888.9	3745.7	3564.3	3449.7	3351.1	3287.4	3236.5	3217.4	3230.1	3233.3
17.5°	4006.6	3898.4	3717.0	3507.0	3370.1	3261.9	3191.9	3147.4	3121.9	3150.6	3150.6
20°	4025.7	3898.4	3675.7	3433.8	3284.2	3163.3	3096.5	3042.4	3023.3	3058.3	3061.5
22.5°	4054.4	3895.2	3631.1	3360.6	3191.9	3064.6	2997.8	2956.4	2946.9	2985.1	2997.8
25°	4086.2	3901.6	3583.4	3277.9	3090.1	2966.0	2915.1	2896.0	2902.3	2950.1	2966.0
27.5°	4121.2	3914.3	3535.6	3185.6	2978.7	2867.3	2838.7	2848.2	2873.7	2934.2	2953.3
30°	4153.0	3917.5	3468.8	3077.4	2851.4	2746.4	2759.1	2800.5	2838.7	2899.2	2921.4
32.5°	4194.4	3920.7	3398.8	2959.6	2714.6	2638.2	2695.5	2762.3	2800.5	2857.8	2883.2
35°	4296.2	3974.8	3344.7	2845.1	2587.3	2545.9	2641.4	2727.3	2749.6	2800.5	2822.8
37.5°	4414.0	4063.9	3316.0	2727.3	2463.2	2453.6	2574.5	2660.5	2666.8	2698.7	2720.9
40°	4487.2	4102.1	3284.2	2628.7	2351.8	2358.1	2482.3	2549.1	2536.4	2558.6	2574.5
42.5°	4560.4	4114.8	3217.4	2545.9	2246.8	2253.1	2348.6	2396.3	2402.7	2450.4	2472.7
45°	4684.5	4149.8	3144.2	2469.5	2151.3	2129.0	2186.3	2249.9	2332.7	2425.0	2450.4
47.5°	4850.0	4223.0	3067.8	2377.2	2059.0	1985.8	2008.1	2119.5	2205.4	2291.3	2307.2
50°	5018.6	4296.2	2997.8	2265.9	1966.7	1833.1	1842.6	1944.4	2014.5	2081.3	2090.8
52.5°	5184.1	4359.9	2937.3	2160.8	1861.7	1651.7	1689.8	1794.9	1842.6	1874.4	1884.0
55°	5349.6	4414.0	2883.2	2071.7	1740.8	1508.5	1543.5	1642.1	1689.8	1705.8	1712.1
57.5°	5521.4	4477.6	2841.9	1995.4	1603.9	1381.2	1403.4	1473.4	1518.0	1537.1	1530.7
60°	5664.6	4531.7	2819.6	1915.8	1467.1	1263.4	1257.0	1320.7	1384.3	1403.4	1397.1
62.5°	5776.0	4566.7	2784.6	1814.0	1346.1	1145.7	1113.8	1196.6	1263.4	1276.1	1285.7
65°	5836.5	4569.9	2698.7	1683.5	1222.0	1018.4	996.1	1078.8	1120.2	1132.9	1132.9
67.5°	5826.9	4519.0	2530.0	1508.5	1107.5	903.8	884.7	935.6	996.1	1005.6	996.1
70°	5629.6	4309.0	2259.5	1323.9	970.6	802.0	767.0	817.9	875.2	840.1	824.2
72.5°	5069.5	3764.8	1861.7	1120.2	817.9	674.7	658.8	709.7	712.9	719.2	703.3
75°	4000.3	2803.7	1393.9	872.0	661.9	566.5	563.3	553.7	566.5	591.9	572.8
77.5°	2100.4	1400.2	754.2	534.6	480.5	455.1	432.8	429.6	467.8	483.7	464.6
80°	1139.3	786.0	432.8	321.4	292.8	296.0	324.6	318.2	359.6	369.2	353.2
82.5°	496.5	372.3	213.2	194.1	194.1	190.9	200.5	222.8	267.3	267.3	213.2
85°	108.2	92.3	82.7	95.5	108.2	108.2	108.2	108.2	76.4	41.4	28.6
87.5°	35.0	35.0	35.0	38.2	41.4	41.4	35.0	25.5	15.9	3.2	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)