

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: P836383

Luminaire Tested: **ARCH3-180-722-U-T3**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836383
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: ARCH3-180-722-U-T3
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2200K, 1375mA LIGHTSQUARE WITH 40 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20970 lumens
Efficiency: N/A
Efficacy: 116.2 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): 180.5
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



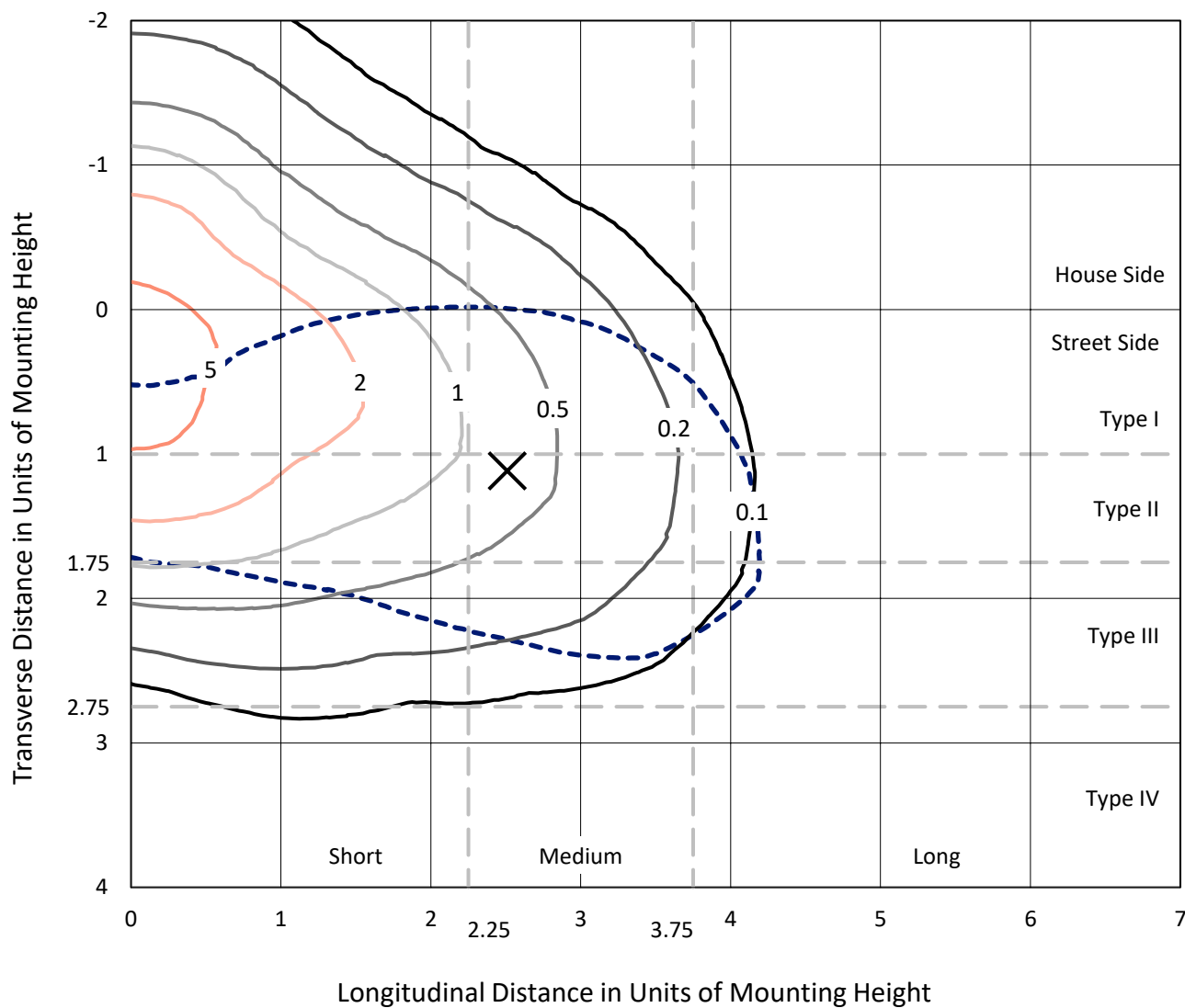
REPORT NUMBER: P836383

CATALOG NUMBER: ARCH3-180-722-U-T3

Iso-Footcandle Lines of Horizontal Illumination

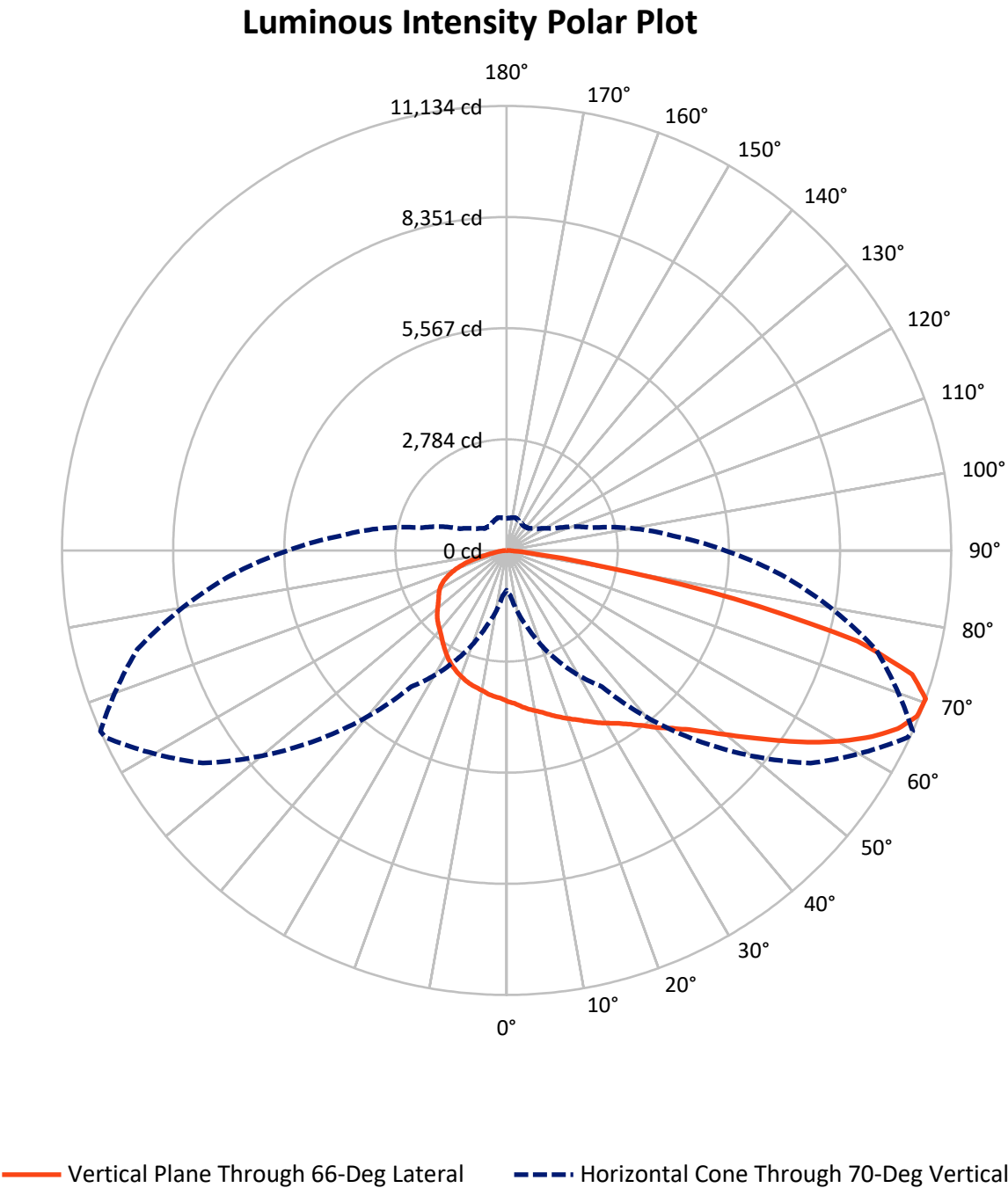
✕ Max cd

--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 fc
Type III - Medium - N/A

REPORT NUMBER: P836383
CATALOG NUMBER: ARCH3-180-722-U-T3



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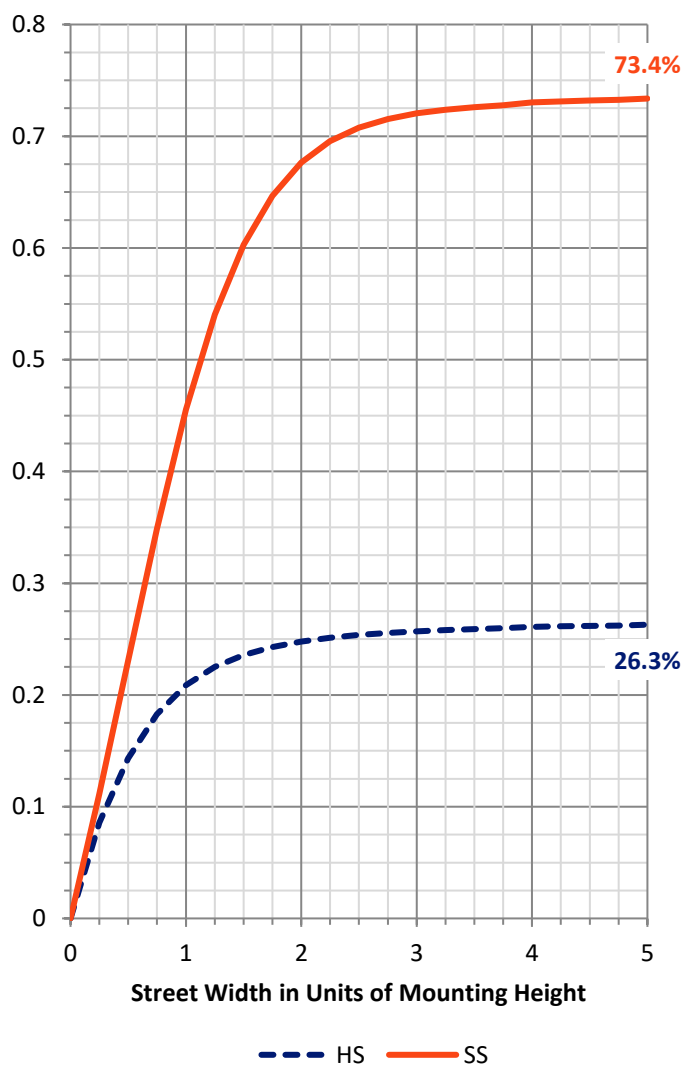
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5556.6	0.0	5556.6
	% Fixture	26.5	0.0	26.5
Street Side	Lumens	15413.4	0.0	15413.4
	% Fixture	73.5	0.0	73.5
Total	Lumens	20970.0	0.0	20970.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	363.7	1.7
10°-20°	1090.9	5.2
20°-30°	1828.6	8.7
30°-40°	2738.1	13.1
40°-50°	3660.8	17.5
50°-60°	4274.1	20.4
60°-70°	4249.9	20.3
70°-80°	2516.0	12.0
80°-90°	248.0	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°	20970.0	100.0
0°-180°	20970.0	100.0

Coefficient of Utilization



REPORT NUMBER: P836383

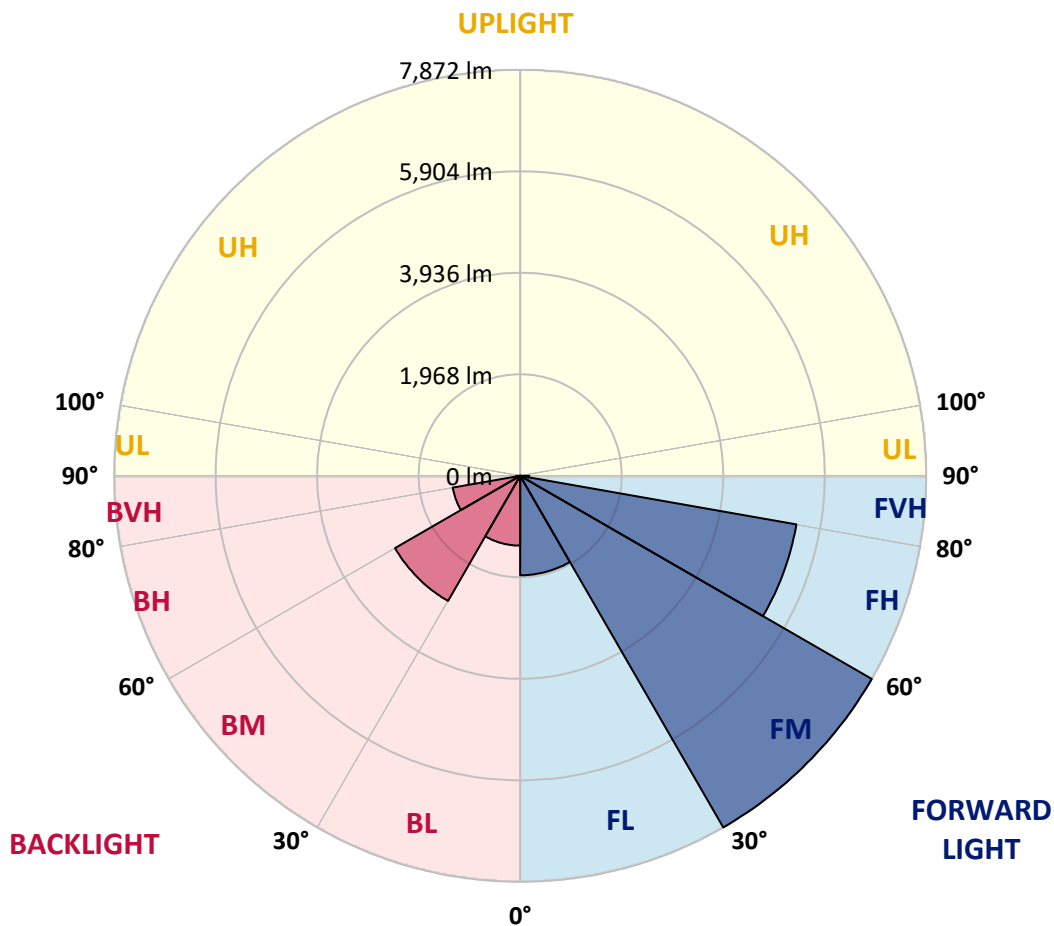
CATALOG NUMBER: ARCH3-180-722-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1928.7	9.2			
FM	(30°-60°)	7871.9	37.5			
FH	(60°-80°)	5438.6	25.9			G3/7500
FVH	(80°-90°)	174.3	0.8			G2/225
BL	(0°-30°)	1354.5	6.5	B3/2500		
BM	(30°-60°)	2801.1	13.4	B3/5000		
BH	(60°-80°)	1327.3	6.3	B3/2500		G3/2500
BVH	(80°-90°)	73.7	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



REPORT NUMBER: P836383

CATALOG NUMBER: ARCH3-180-722-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	3784.6	3784.6	3784.6	3784.6	3784.6	3784.6	3784.6	3784.6	3784.6	3784.6	3784.6
2.5°	3923.7	3917.6	3914.5	3902.1	3874.3	3886.6	3858.8	3840.3	3837.2	3793.9	3769.1
5°	4084.5	4081.4	4075.3	4056.7	4013.4	4019.6	3973.2	3939.2	3929.9	3861.9	3809.3
7.5°	4220.6	4214.4	4211.3	4186.6	4140.2	4137.1	4081.4	4032.0	4016.5	3923.7	3843.4
10°	4325.7	4316.4	4322.6	4297.9	4248.4	4239.1	4168.0	4103.1	4087.6	3970.1	3858.8
12.5°	4415.4	4409.2	4418.5	4396.8	4356.6	4347.4	4276.2	4192.8	4174.2	4038.2	3892.8
15°	4514.3	4492.7	4511.2	4502.0	4474.1	4471.0	4406.1	4313.3	4288.6	4124.7	3945.4
17.5°	4566.9	4554.5	4576.2	4579.3	4566.9	4588.5	4526.7	4415.4	4393.7	4205.1	3991.8
20°	4604.0	4585.4	4610.2	4628.7	4638.0	4681.3	4631.8	4523.6	4498.9	4282.4	4035.1
22.5°	4730.8	4690.6	4693.7	4706.0	4712.2	4774.0	4743.1	4638.0	4613.3	4378.3	4087.6
25°	5049.2	4968.8	4916.3	4879.2	4835.9	4888.5	4869.9	4767.9	4746.2	4492.7	4152.6
27.5°	5544.0	5441.9	5336.8	5228.6	5058.5	5036.9	5005.9	4913.2	4888.5	4607.1	4217.5
30°	6106.7	6004.7	5881.0	5707.8	5389.4	5222.4	5151.3	5049.2	5021.4	4709.1	4279.3
32.5°	6666.4	6576.7	6453.0	6242.7	5788.2	5448.1	5296.6	5191.5	5163.6	4820.4	4353.5
35°	7102.3	7046.7	6966.3	6703.5	6184.0	5714.0	5506.9	5380.1	5349.2	4996.7	4489.6
37.5°	7454.8	7414.6	7346.6	7071.4	6471.6	5979.9	5748.0	5602.7	5568.7	5188.4	4634.9
40°	7974.3	7869.1	7813.5	7414.6	6722.0	6221.1	6020.1	5868.6	5831.5	5392.4	4752.4
42.5°	8416.4	8339.1	8271.1	7720.7	6960.1	6428.3	6276.8	6137.6	6088.1	5593.4	4879.2
45°	8490.6	8521.6	8487.5	7872.2	7337.3	6632.3	6536.5	6446.8	6400.4	5865.5	5070.9
47.5°	8493.7	8493.7	8292.7	7958.8	7804.2	6861.1	6814.8	6845.7	6796.2	6211.8	5299.7
50°	8271.1	8311.3	8206.2	7980.5	7927.9	7090.0	7154.9	7321.9	7272.4	6579.8	5547.0
52.5°	7810.4	7943.3	7940.3	7946.4	7748.6	7284.8	7513.6	7893.9	7810.4	6994.1	5809.9
55°	6997.2	7263.1	7501.2	7705.3	7594.0	7402.2	7952.6	8503.0	8416.4	7457.9	6075.8
57.5°	6301.5	6471.6	6768.4	7346.6	7411.5	7504.3	8363.9	9140.0	9062.7	7971.2	6354.1
60°	5506.9	5741.8	6038.7	6861.1	7188.9	7637.2	8815.3	9761.4	9687.2	8490.6	6623.1
62.5°	4285.5	4588.5	5182.2	6116.0	6864.2	7720.7	9170.9	10308.7	10274.7	8982.3	6864.2
65°	2986.9	3255.9	4087.6	5200.7	6347.9	7683.6	9455.3	10797.3	10766.3	9384.2	7034.3
67.5°	1743.9	2056.2	2996.1	4186.6	5435.7	7427.0	9548.1	11084.8	11084.8	9628.5	7080.7
70°	995.6	1140.9	1975.8	3051.8	4168.0	6718.9	9288.4	11081.7	11134.3	9572.8	6889.0
72.5°	695.7	760.6	1329.6	2053.1	2826.1	5435.7	8608.1	10546.8	10617.9	9047.2	6233.5
75°	541.1	587.5	936.9	1400.7	1781.0	3691.8	7120.9	8892.6	9081.2	7711.4	5040.0
77.5°	411.2	445.2	547.3	875.0	1140.9	2121.1	4699.8	5831.5	5843.9	4721.5	2702.4
80°	299.9	333.9	364.9	534.9	606.0	992.5	1774.8	2436.5	2368.5	2285.0	1462.5
82.5°	179.3	213.3	222.6	290.6	296.8	423.6	621.5	785.4	754.4	1004.9	686.4
85°	77.3	108.2	114.4	133.0	126.8	173.2	247.4	207.2	185.5	213.3	148.4
87.5°	18.6	30.9	30.9	34.0	27.8	43.3	46.4	34.0	30.9	37.1	37.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P836383

CATALOG NUMBER: ARCH3-180-722-U-T3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3784.6	3784.6	3784.6	3784.6	3784.6	3784.6	3784.6	3784.6	3784.6	3784.6	3784.6
2.5°	3763.0	3753.7	3756.8	3704.2	3688.8	3673.3	3664.0	3657.8	3651.7	3660.9	3670.2
5°	3790.8	3769.1	3744.4	3667.1	3636.2	3602.2	3577.4	3555.8	3546.5	3546.5	3555.8
7.5°	3812.4	3775.3	3722.8	3620.7	3565.1	3518.7	3478.5	3450.7	3435.2	3435.2	3444.5
10°	3815.5	3763.0	3679.5	3555.8	3481.6	3413.6	3367.2	3336.3	3314.6	3314.6	3320.8
12.5°	3834.1	3763.0	3654.7	3506.3	3413.6	3330.1	3274.4	3228.0	3218.8	3218.8	3225.0
15°	3865.0	3778.4	3639.3	3463.0	3351.7	3255.9	3194.0	3144.6	3126.0	3138.4	3141.5
17.5°	3892.8	3787.7	3611.5	3407.4	3274.4	3169.3	3101.3	3058.0	3033.3	3061.1	3061.1
20°	3911.4	3787.7	3571.3	3336.3	3190.9	3073.4	3008.5	2956.0	2937.4	2971.4	2974.5
22.5°	3939.2	3784.6	3528.0	3265.2	3101.3	2977.6	2912.7	2872.5	2863.2	2900.3	2912.7
25°	3970.1	3790.8	3481.6	3184.8	3002.3	2881.7	2832.3	2813.7	2819.9	2866.3	2881.7
27.5°	4004.1	3803.2	3435.2	3095.1	2894.1	2785.9	2758.1	2767.3	2792.1	2850.8	2869.4
30°	4035.1	3806.3	3370.3	2990.0	2770.4	2668.4	2680.8	2721.0	2758.1	2816.8	2838.5
32.5°	4075.3	3809.3	3302.3	2875.6	2637.5	2563.3	2618.9	2683.9	2721.0	2776.6	2801.4
35°	4174.2	3861.9	3249.7	2764.2	2513.8	2473.6	2566.4	2649.8	2671.5	2721.0	2742.6
37.5°	4288.6	3948.5	3221.9	2649.8	2393.2	2383.9	2501.4	2584.9	2591.1	2622.0	2643.7
40°	4359.7	3985.6	3190.9	2554.0	2285.0	2291.2	2411.8	2476.7	2464.3	2486.0	2501.4
42.5°	4430.8	3998.0	3126.0	2473.6	2183.0	2189.1	2281.9	2328.3	2334.5	2380.8	2402.5
45°	4551.4	4032.0	3054.9	2399.4	2090.2	2068.5	2124.2	2186.0	2266.4	2356.1	2380.8
47.5°	4712.2	4103.1	2980.7	2309.7	2000.5	1929.4	1951.1	2059.3	2142.8	2226.2	2241.7
50°	4876.1	4174.2	2912.7	2201.5	1910.9	1781.0	1790.3	1889.2	1957.2	2022.2	2031.4
52.5°	5036.9	4236.0	2853.9	2099.5	1808.8	1604.7	1641.9	1743.9	1790.3	1821.2	1830.5
55°	5197.7	4288.6	2801.4	2012.9	1691.3	1465.6	1499.6	1595.5	1641.9	1657.3	1663.5
57.5°	5364.6	4350.4	2761.2	1938.7	1558.4	1341.9	1363.6	1431.6	1474.9	1493.4	1487.3
60°	5503.8	4403.0	2739.5	1861.4	1425.4	1227.5	1221.3	1283.2	1345.0	1363.6	1357.4
62.5°	5612.0	4437.0	2705.5	1762.4	1307.9	1113.1	1082.2	1162.6	1227.5	1239.9	1249.2
65°	5670.7	4440.1	2622.0	1635.7	1187.3	989.4	967.8	1048.2	1088.4	1100.8	1100.8
67.5°	5661.5	4390.6	2458.1	1465.6	1076.0	878.1	859.6	909.0	967.8	977.1	967.8
70°	5469.7	4186.6	2195.3	1286.3	943.1	779.2	745.2	794.6	850.3	816.3	800.8
72.5°	4925.6	3657.8	1808.8	1088.4	794.6	655.5	640.0	689.5	692.6	698.8	683.3
75°	3886.6	2724.1	1354.3	847.2	643.1	550.4	547.3	538.0	550.4	575.1	556.6
77.5°	2040.7	1360.5	732.8	519.5	466.9	442.2	420.5	417.4	454.5	470.0	451.4
80°	1106.9	763.7	420.5	312.3	284.5	287.6	315.4	309.2	349.4	358.7	343.2
82.5°	482.4	361.8	207.2	188.6	188.6	185.5	194.8	216.4	259.7	259.7	207.2
85°	105.1	89.7	80.4	92.8	105.1	105.1	105.1	105.1	74.2	40.2	27.8
87.5°	34.0	34.0	34.0	37.1	40.2	40.2	34.0	24.7	15.5	3.1	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)