

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: P836032

Luminaire Tested: **ARCH3-130-727-U-T3**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836032
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: ARCH3-130-727-U-T3
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 1035mA LIGHTSQUARE WITH 40 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18709 lumens
Efficiency: N/A
Efficacy: 141.1 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): 132.6
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



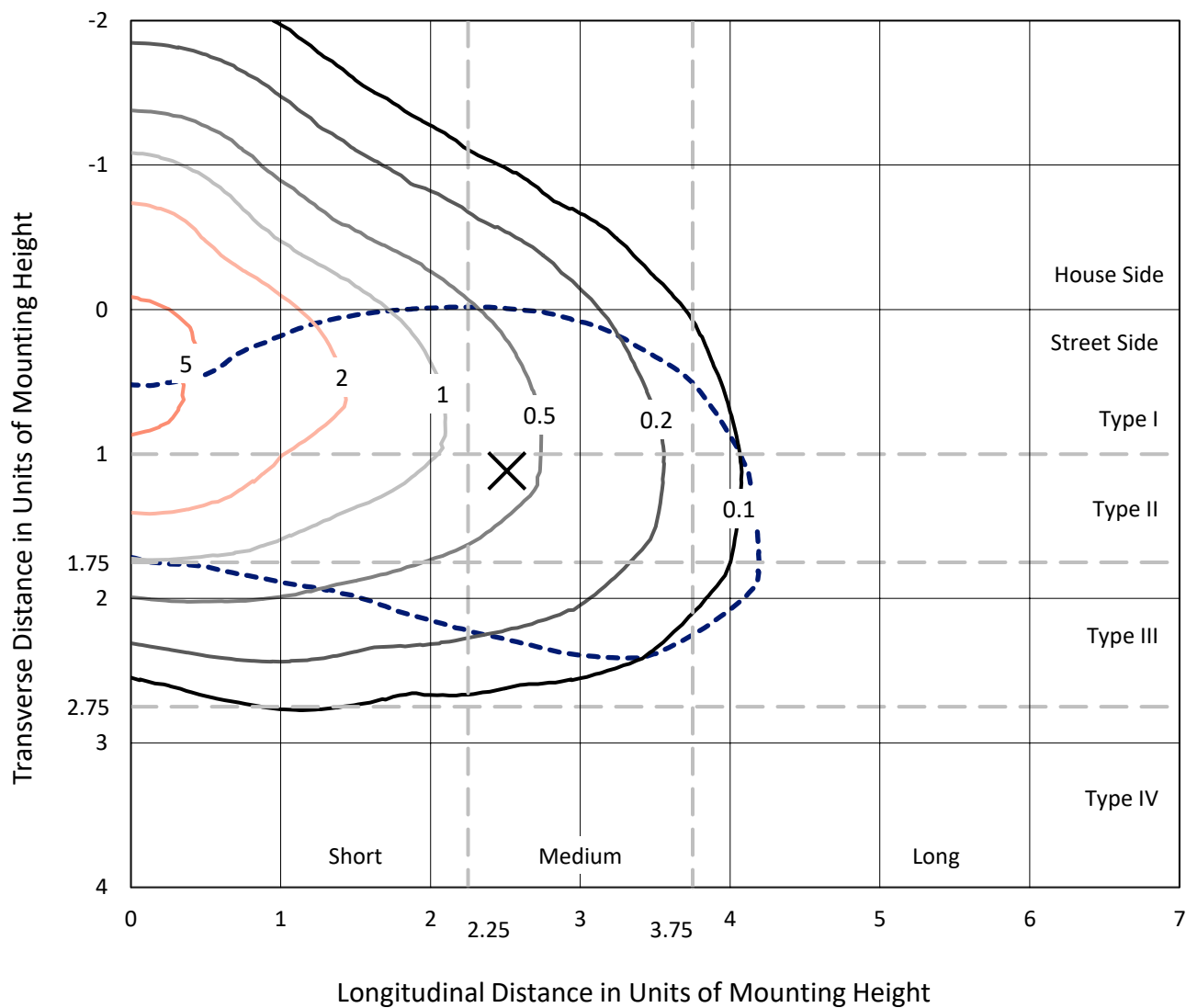
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Iso-Footcandle Lines of Horizontal Illumination

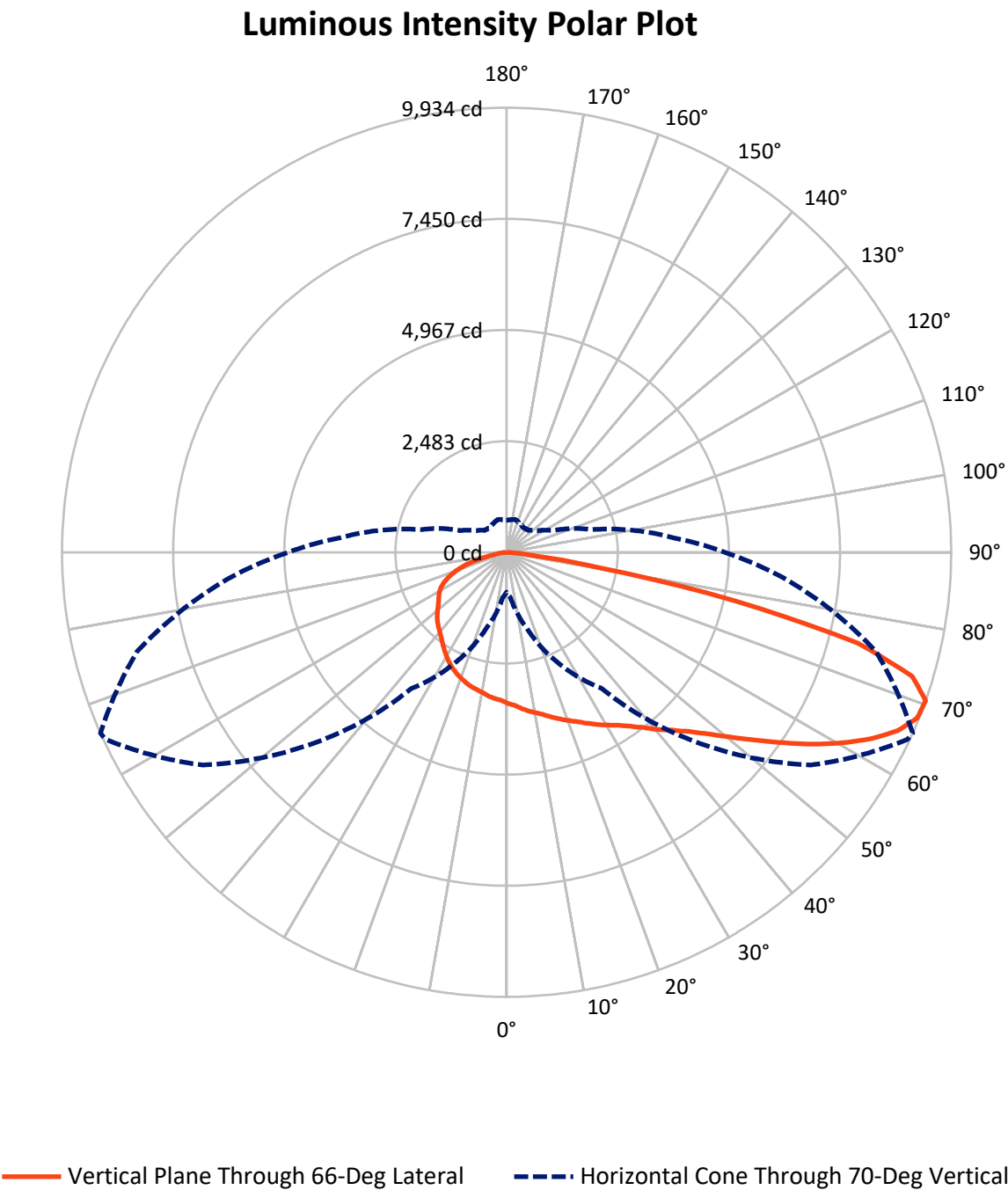
✕ Max cd

--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 fc
 Type III - Medium - N/A

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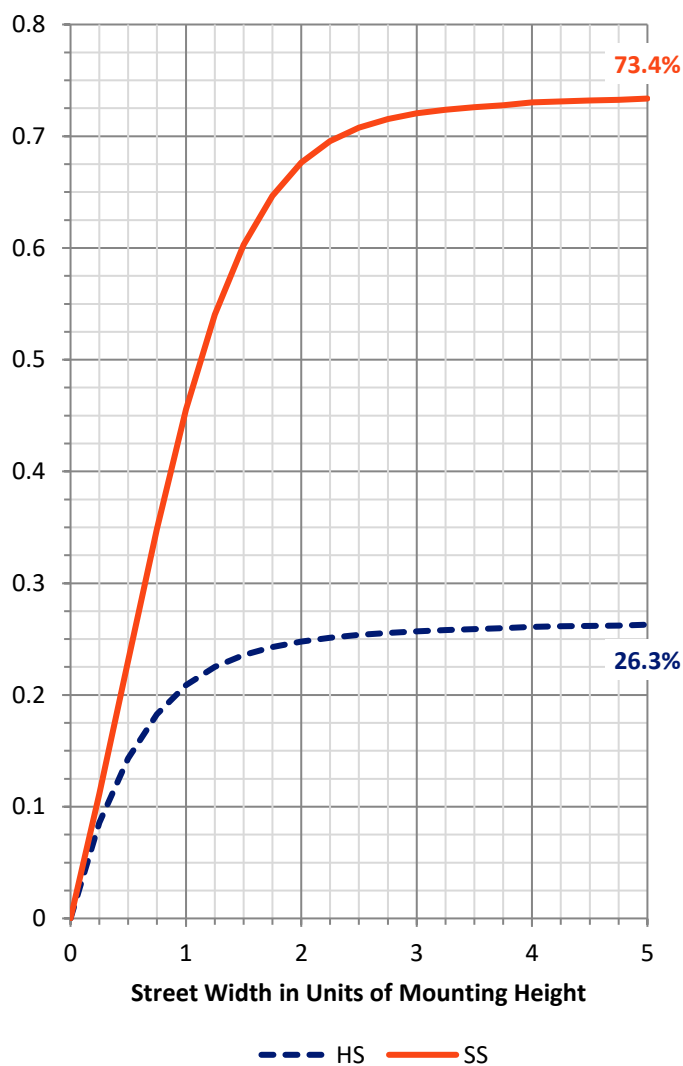
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4957.5	0.0	4957.5
	% Fixture	26.5	0.0	26.5
Street Side	Lumens	13751.5	0.0	13751.5
	% Fixture	73.5	0.0	73.5
Total	Lumens	18709.0	0.0	18709.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	324.5	1.7
10°-20°	973.2	5.2
20°-30°	1631.5	8.7
30°-40°	2442.8	13.1
40°-50°	3266.1	17.5
50°-60°	3813.3	20.4
60°-70°	3791.7	20.3
70°-80°	2244.7	12.0
80°-90°	221.2	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°	18709.0	100.0
0°-180°	18709.0	100.0

Coefficient of Utilization



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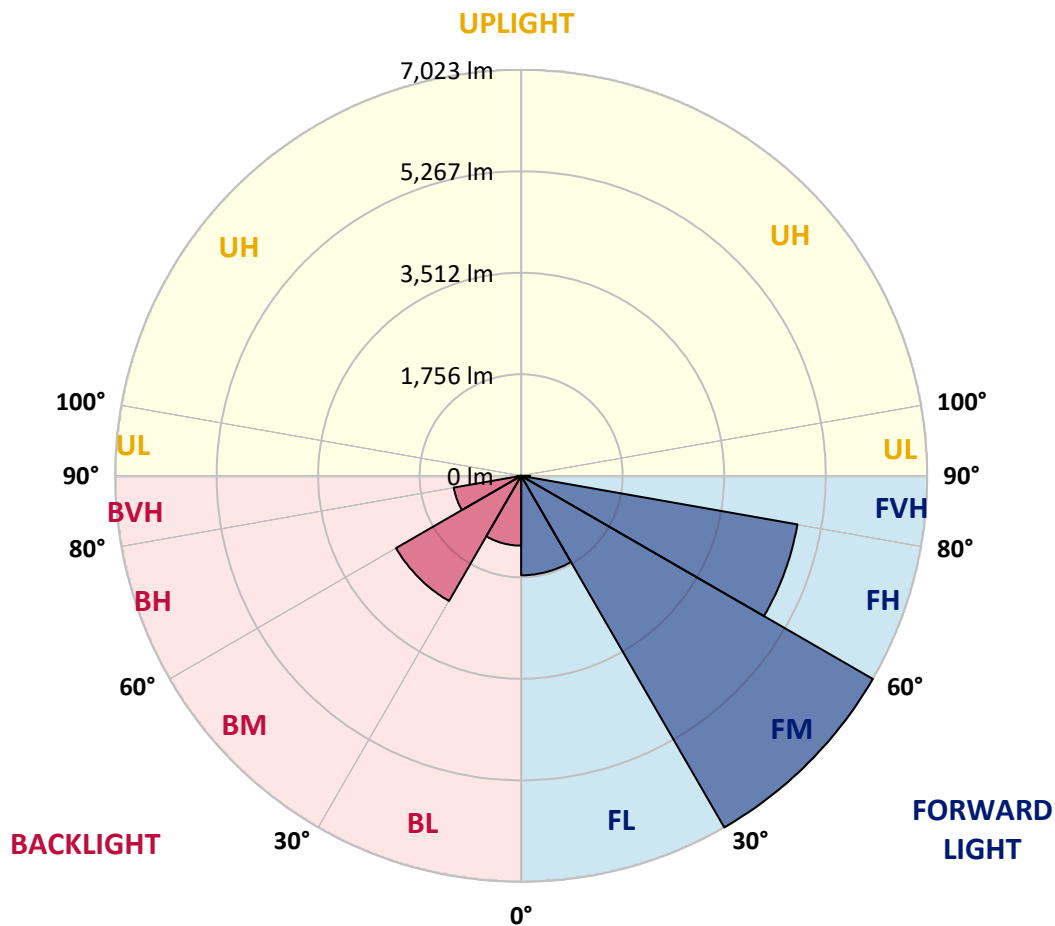
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1720.7	9.2			
FM	(30°-60°)	7023.1	37.5			
FH	(60°-80°)	4852.2	25.9			G2/5000
FVH	(80°-90°)	155.5	0.8			G2/225
BL	(0°-30°)	1208.4	6.5	B3/2500		
BM	(30°-60°)	2499.1	13.4	B2/2500		
BH	(60°-80°)	1184.2	6.3	B3/2500		G3/2500
BVH	(80°-90°)	65.8	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°	3376.5	3376.5	3376.5	3376.5	3376.5	3376.5	3376.5	3376.5	3376.5	3376.5	3376.5
2.5°	3500.7	3495.2	3492.4	3481.4	3456.5	3467.6	3442.8	3426.2	3423.4	3384.8	3362.8
5°	3644.1	3641.4	3635.9	3619.3	3580.7	3586.2	3544.8	3514.5	3506.2	3445.5	3398.6
7.5°	3765.5	3760.0	3757.2	3735.2	3693.8	3691.0	3641.4	3597.2	3583.4	3500.7	3429.0
10°	3859.3	3851.0	3856.5	3834.5	3790.3	3782.1	3718.6	3660.7	3646.9	3542.1	3442.8
12.5°	3939.3	3933.8	3942.1	3922.8	3886.9	3878.6	3815.2	3740.7	3724.1	3602.8	3473.1
15°	4027.6	4008.3	4024.8	4016.5	3991.7	3989.0	3931.0	3848.3	3826.2	3680.0	3520.0
17.5°	4074.5	4063.4	4082.8	4085.5	4074.5	4093.8	4038.6	3939.3	3920.0	3751.7	3561.4
20°	4107.6	4091.0	4113.1	4129.7	4137.9	4176.5	4132.4	4035.9	4013.8	3820.7	3600.0
22.5°	4220.7	4184.8	4187.6	4198.6	4204.1	4259.3	4231.7	4137.9	4115.9	3906.2	3646.9
25°	4504.8	4433.1	4386.2	4353.1	4314.5	4361.4	4344.8	4253.8	4234.5	4008.3	3704.8
27.5°	4946.2	4855.2	4761.4	4664.8	4513.1	4493.8	4466.2	4383.4	4361.4	4110.3	3762.8
30°	5448.3	5357.2	5246.9	5092.4	4808.3	4659.3	4595.9	4504.8	4480.0	4201.4	3817.9
32.5°	5947.6	5867.6	5757.2	5569.6	5164.1	4860.7	4725.5	4631.7	4606.9	4300.7	3884.1
35°	6336.5	6286.9	6215.2	5980.7	5517.2	5097.9	4913.1	4800.0	4772.4	4457.9	4005.5
37.5°	6651.0	6615.2	6554.5	6309.0	5773.8	5335.2	5128.3	4998.6	4968.3	4629.0	4135.2
40°	7114.5	7020.7	6971.0	6615.2	5997.2	5550.3	5371.0	5235.9	5202.8	4811.0	4240.0
42.5°	7509.0	7440.0	7379.3	6888.3	6209.6	5735.2	5600.0	5475.9	5431.7	4990.3	4353.1
45°	7575.2	7602.8	7572.4	7023.4	6546.2	5917.2	5831.7	5751.7	5710.3	5233.1	4524.1
47.5°	7577.9	7577.9	7398.6	7100.7	6962.8	6121.4	6080.0	6107.6	6063.4	5542.1	4728.3
50°	7379.3	7415.2	7321.4	7120.0	7073.1	6325.5	6383.4	6532.4	6488.3	5870.3	4949.0
52.5°	6968.3	7086.9	7084.1	7089.6	6913.1	6499.3	6703.4	7042.8	6968.3	6240.0	5183.4
55°	6242.8	6480.0	6692.4	6874.5	6775.2	6604.1	7095.2	7586.2	7509.0	6653.8	5420.7
57.5°	5622.1	5773.8	6038.6	6554.5	6612.4	6695.2	7462.1	8154.5	8085.5	7111.7	5669.0
60°	4913.1	5122.8	5387.6	6121.4	6413.8	6813.8	7864.8	8709.0	8642.8	7575.2	5909.0
62.5°	3823.4	4093.8	4623.4	5456.5	6124.1	6888.3	8182.1	9197.2	9166.9	8013.8	6124.1
65°	2664.8	2904.8	3646.9	4640.0	5663.4	6855.2	8435.9	9633.1	9605.5	8372.4	6275.9
67.5°	1555.9	1834.5	2673.1	3735.2	4849.7	6626.2	8518.6	9889.6	9889.6	8590.3	6317.2
70°	888.3	1017.9	1762.8	2722.8	3718.6	5994.5	8286.9	9886.9	9933.8	8540.7	6146.2
72.5°	620.7	678.6	1186.2	1831.7	2521.4	4849.7	7680.0	9409.6	9473.1	8071.7	5561.4
75°	482.8	524.1	835.9	1249.7	1589.0	3293.8	6353.1	7933.8	8102.1	6880.0	4496.5
77.5°	366.9	397.2	488.3	780.7	1017.9	1892.4	4193.1	5202.8	5213.8	4212.4	2411.0
80°	267.6	297.9	325.5	477.2	540.7	885.5	1583.4	2173.8	2113.1	2038.6	1304.8
82.5°	160.0	190.3	198.6	259.3	264.8	377.9	554.5	700.7	673.1	896.6	612.4
85°	69.0	96.6	102.1	118.6	113.1	154.5	220.7	184.8	165.5	190.3	132.4
87.5°	16.6	27.6	27.6	30.3	24.8	38.6	41.4	30.3	27.6	33.1	33.1
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°	3376.5	3376.5	3376.5	3376.5	3376.5	3376.5	3376.5	3376.5	3376.5	3376.5	3376.5
2.5°	3357.2	3349.0	3351.7	3304.8	3291.0	3277.2	3269.0	3263.4	3257.9	3266.2	3274.5
5°	3382.1	3362.8	3340.7	3271.7	3244.1	3213.8	3191.7	3172.4	3164.1	3164.1	3172.4
7.5°	3401.4	3368.3	3321.4	3230.3	3180.7	3139.3	3103.4	3078.6	3064.8	3064.8	3073.1
10°	3404.1	3357.2	3282.8	3172.4	3106.2	3045.5	3004.1	2976.5	2957.2	2957.2	2962.8
12.5°	3420.7	3357.2	3260.7	3128.3	3045.5	2971.0	2921.4	2880.0	2871.7	2871.7	2877.2
15°	3448.3	3371.0	3246.9	3089.7	2990.3	2904.8	2849.7	2805.5	2789.0	2800.0	2802.8
17.5°	3473.1	3379.3	3222.1	3040.0	2921.4	2827.6	2766.9	2728.3	2706.2	2731.0	2731.0
20°	3489.7	3379.3	3186.2	2976.5	2846.9	2742.1	2684.1	2637.2	2620.7	2651.0	2653.8
22.5°	3514.5	3376.5	3147.6	2913.1	2766.9	2656.5	2598.6	2562.8	2554.5	2587.6	2598.6
25°	3542.1	3382.1	3106.2	2841.4	2678.6	2571.0	2526.9	2510.3	2515.9	2557.2	2571.0
27.5°	3572.4	3393.1	3064.8	2761.4	2582.1	2485.5	2460.7	2469.0	2491.0	2543.4	2560.0
30°	3600.0	3395.9	3006.9	2667.6	2471.7	2380.7	2391.7	2427.6	2460.7	2513.1	2532.4
32.5°	3635.9	3398.6	2946.2	2565.5	2353.1	2286.9	2336.5	2394.5	2427.6	2477.2	2499.3
35°	3724.1	3445.5	2899.3	2466.2	2242.8	2206.9	2289.7	2364.1	2383.4	2427.6	2446.9
37.5°	3826.2	3522.8	2874.5	2364.1	2135.2	2126.9	2231.7	2306.2	2311.7	2339.3	2358.6
40°	3889.7	3555.9	2846.9	2278.6	2038.6	2044.1	2151.7	2209.7	2198.6	2217.9	2231.7
42.5°	3953.1	3566.9	2789.0	2206.9	1947.6	1953.1	2035.9	2077.2	2082.8	2124.1	2143.4
45°	4060.7	3597.2	2725.5	2140.7	1864.8	1845.5	1895.2	1950.3	2022.1	2102.1	2124.1
47.5°	4204.1	3660.7	2659.3	2060.7	1784.8	1721.4	1740.7	1837.2	1911.7	1986.2	2000.0
50°	4350.3	3724.1	2598.6	1964.1	1704.8	1589.0	1597.2	1685.5	1746.2	1804.1	1812.4
52.5°	4493.8	3779.3	2546.2	1873.1	1613.8	1431.7	1464.8	1555.9	1597.2	1624.8	1633.1
55°	4637.2	3826.2	2499.3	1795.9	1509.0	1307.6	1337.9	1423.4	1464.8	1478.6	1484.1
57.5°	4786.2	3881.4	2463.4	1729.7	1390.3	1197.2	1216.6	1277.2	1315.9	1332.4	1326.9
60°	4910.3	3928.3	2444.1	1660.7	1271.7	1095.2	1089.7	1144.8	1200.0	1216.6	1211.0
62.5°	5006.9	3958.6	2413.8	1572.4	1166.9	993.1	965.5	1037.2	1095.2	1106.2	1114.5
65°	5059.3	3961.4	2339.3	1459.3	1059.3	882.8	863.4	935.2	971.0	982.1	982.1
67.5°	5051.0	3917.2	2193.1	1307.6	960.0	783.4	766.9	811.0	863.4	871.7	863.4
70°	4880.0	3735.2	1958.6	1147.6	841.4	695.2	664.8	709.0	758.6	728.3	714.5
72.5°	4394.5	3263.4	1613.8	971.0	709.0	584.8	571.0	615.2	617.9	623.4	609.7
75°	3467.6	2430.3	1208.3	755.9	573.8	491.0	488.3	480.0	491.0	513.1	496.6
77.5°	1820.7	1213.8	653.8	463.4	416.6	394.5	375.2	372.4	405.5	419.3	402.8
80°	987.6	681.4	375.2	278.6	253.8	256.6	281.4	275.9	311.7	320.0	306.2
82.5°	430.3	322.8	184.8	168.3	168.3	165.5	173.8	193.1	231.7	231.7	184.8
85°	93.8	80.0	71.7	82.8	93.8	93.8	93.8	93.8	66.2	35.9	24.8
87.5°	30.3	30.3	30.3	33.1	35.9	35.9	30.3	22.1	13.8	2.8	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)