

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: P835949

Luminaire Tested: **ARCH3-120-722-U-T2U**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P835949
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-120-722-U-T2U
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2200K, 965mA LIGHTSQUARE WITH 40 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16152 lumens
Efficiency: N/A
Efficacy: 131.6 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

Input Watts (W): 122.7
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



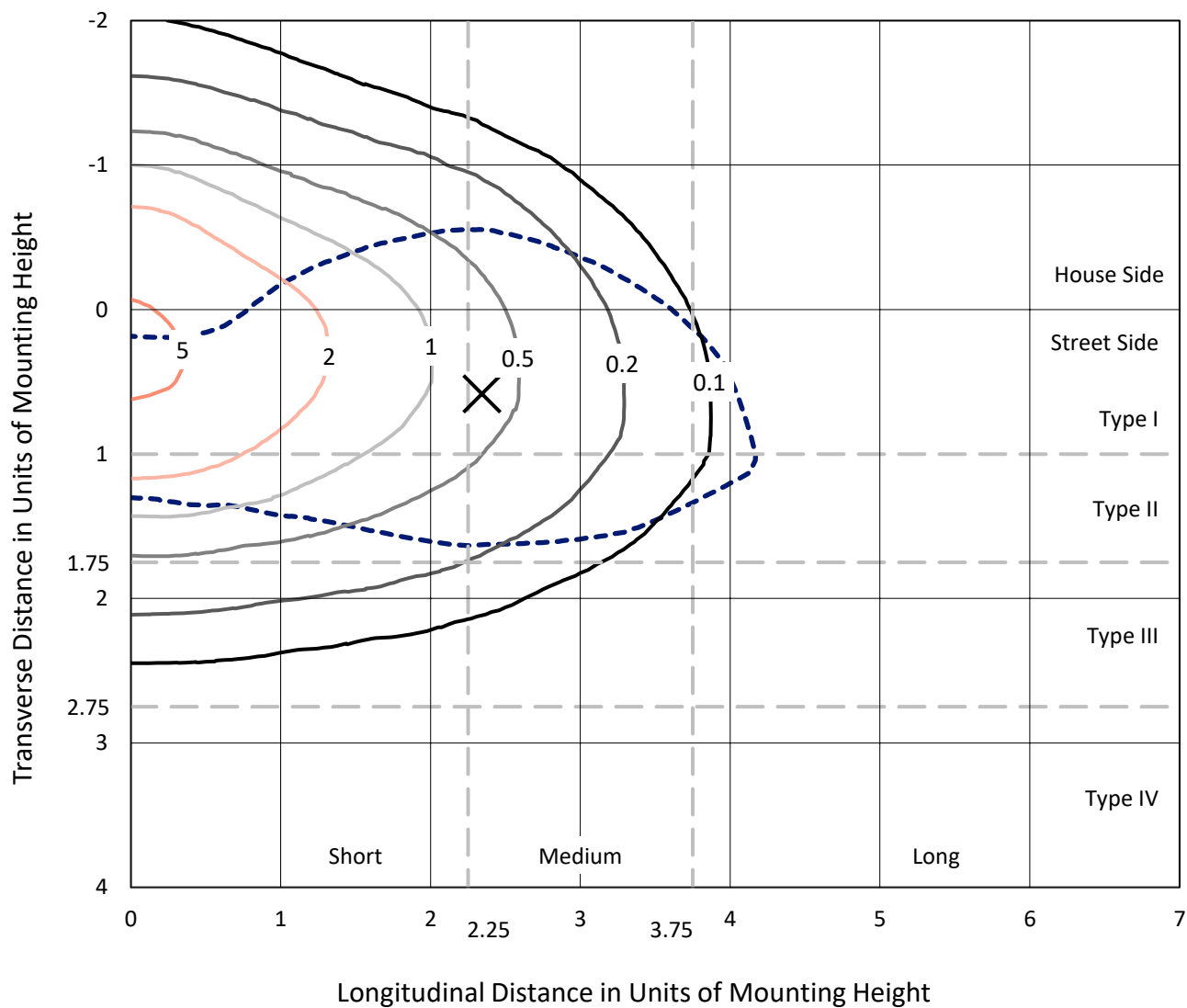
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Iso-Footcandle Lines of Horizontal Illumination

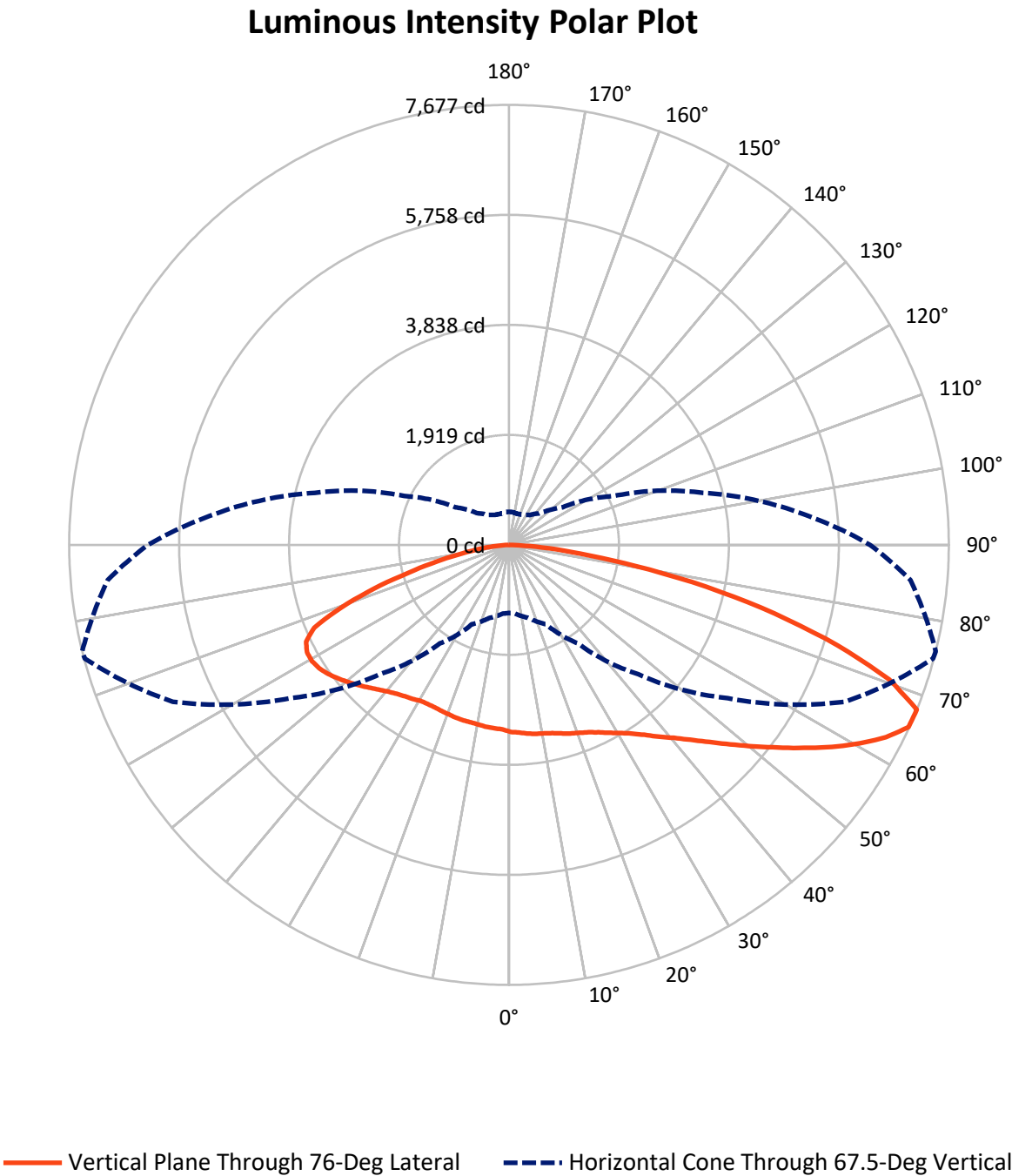
✕ Max cd

--- 1/2 Max cd



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

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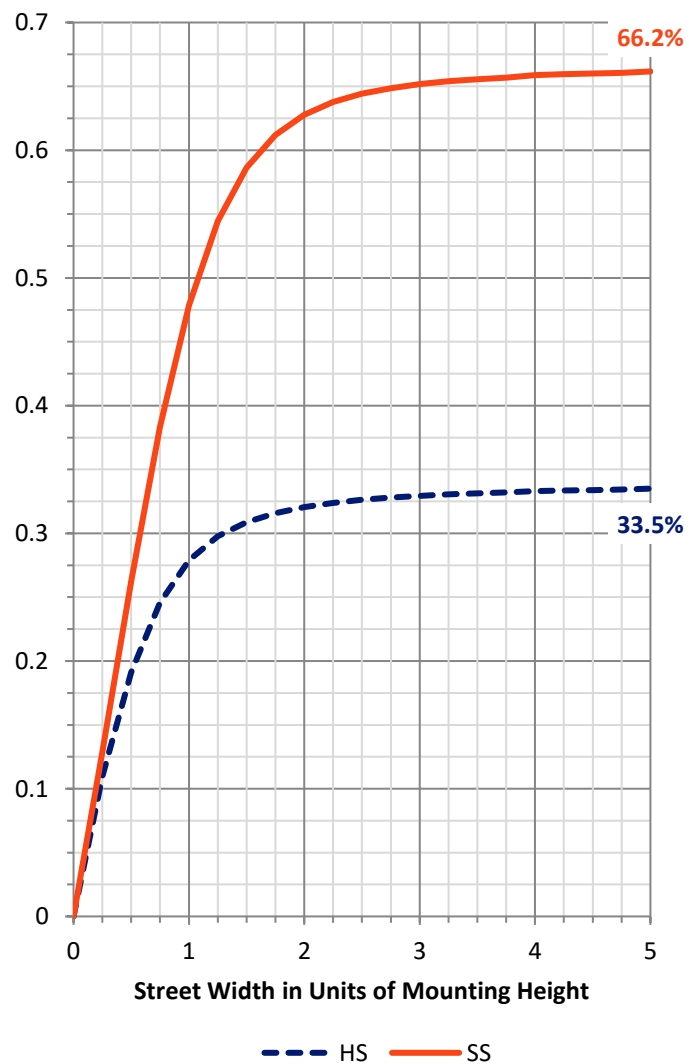
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5457.8	0.0	5457.8
	% Fixture	33.8	0.0	33.8
Street Side	Lumens	10694.2	0.0	10694.2
	% Fixture	66.2	0.0	66.2
Total	Lumens	16152.0	0.0	16152.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	314.6	1.9
10°-20°	961.8	6.0
20°-30°	1634.2	10.1
30°-40°	2325.2	14.4
40°-50°	2936.6	18.2
50°-60°	3179.5	19.7
60°-70°	2957.3	18.3
70°-80°	1588.3	9.8
80°-90°	254.5	1.6
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°	16152.0	100.0
0°-180°	16152.0	100.0

Coefficient of Utilization



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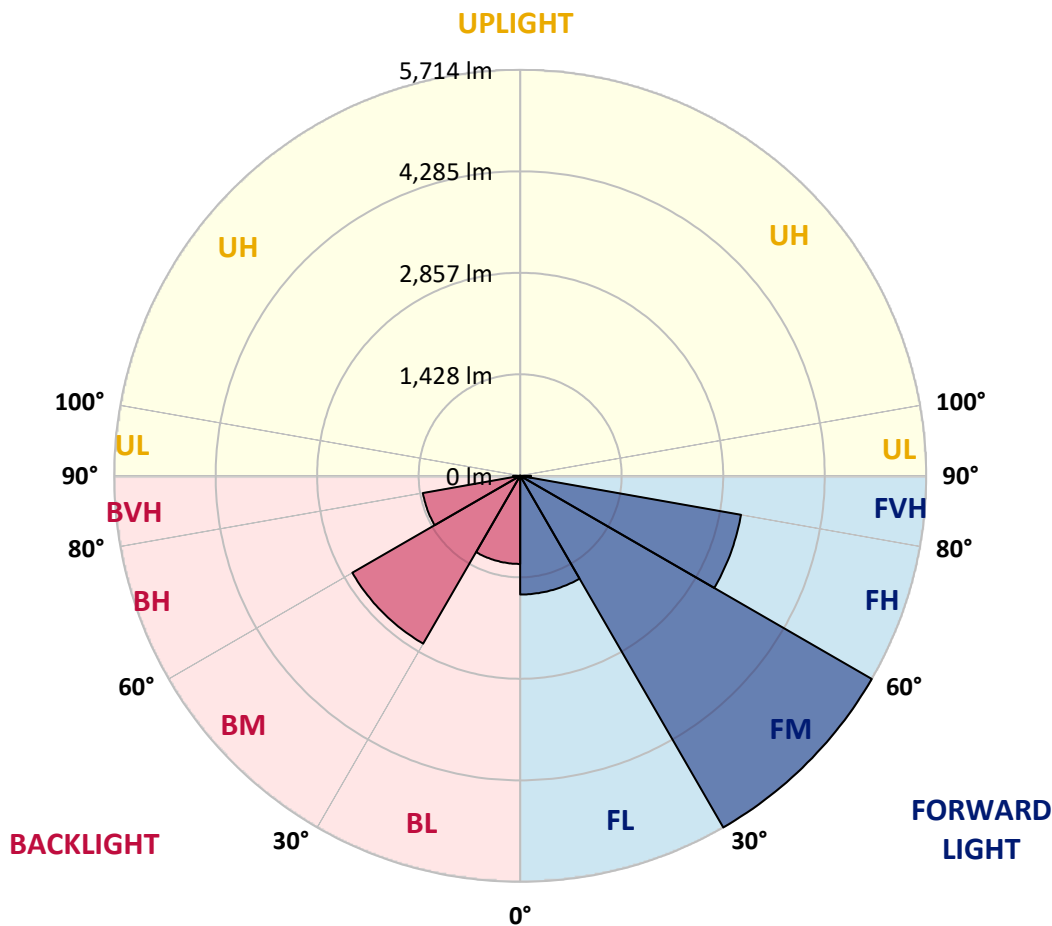
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1670.3	10.3			
FM	(30°-60°)	5714.0	35.4			
FH	(60°-80°)	3156.0	19.5			G2/5000
FVH	(80°-90°)	154.0	1.0			G2/225
BL	(0°-30°)	1240.3	7.7	B3/2500		
BM	(30°-60°)	2727.4	16.9	B3/5000		
BH	(60°-80°)	1389.6	8.6	B3/2500		G3/2500
BVH	(80°-90°)	100.6	0.6			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3262.7	3262.7	3262.7	3262.7	3262.7	3262.7	3262.7	3262.7	3262.7	3262.7	3262.7
2.5°	3361.6	3355.6	3331.6	3334.6	3334.6	3331.6	3295.7	3280.7	3280.7	3277.7	3244.7
5°	3481.6	3472.6	3445.6	3439.6	3427.6	3412.6	3355.6	3322.6	3307.6	3304.7	3259.7
7.5°	3622.5	3610.5	3577.5	3559.5	3529.6	3490.6	3418.6	3367.6	3331.6	3328.6	3265.7
10°	3763.5	3751.5	3712.5	3679.5	3637.5	3574.5	3481.6	3406.6	3349.6	3343.6	3268.7
12.5°	3931.4	3919.4	3871.4	3829.4	3766.5	3682.5	3559.5	3457.6	3379.6	3370.6	3277.7
15°	4108.3	4090.3	4042.4	3994.4	3916.4	3808.4	3661.5	3526.6	3427.6	3412.6	3304.7
17.5°	4255.3	4231.3	4192.3	4144.3	4057.3	3931.4	3763.5	3595.5	3472.6	3460.6	3331.6
20°	4381.2	4363.2	4321.2	4276.3	4183.3	4045.3	3859.4	3664.5	3514.6	3499.6	3352.6
22.5°	4501.2	4477.2	4453.2	4420.2	4318.2	4165.3	3970.4	3748.5	3568.5	3550.6	3379.6
25°	4639.1	4612.1	4603.1	4585.1	4465.2	4309.2	4105.3	3853.4	3643.5	3622.5	3427.6
27.5°	4810.0	4780.0	4762.1	4762.1	4618.1	4456.2	4249.3	3976.4	3730.5	3712.5	3487.6
30°	4990.0	4954.0	4927.0	4927.0	4765.1	4603.1	4390.2	4099.3	3829.4	3808.4	3565.5
32.5°	5148.9	5112.9	5082.9	5079.9	4912.0	4750.1	4537.1	4234.3	3949.4	3922.4	3661.5
35°	5271.8	5238.9	5211.9	5217.9	5058.9	4900.0	4702.1	4414.2	4099.3	4069.3	3787.5
37.5°	5346.8	5334.8	5319.8	5340.8	5193.9	5043.9	4873.0	4588.1	4270.3	4243.3	3943.4
40°	5385.8	5376.8	5436.8	5463.8	5307.8	5172.9	5043.9	4768.1	4456.2	4426.2	4123.3
42.5°	5442.8	5517.7	5541.7	5535.7	5391.8	5271.8	5199.9	4963.0	4675.1	4648.1	4339.2
45°	5238.9	5220.9	5352.8	5424.8	5397.8	5334.8	5346.8	5196.9	4930.0	4903.0	4588.1
47.5°	4966.0	4942.0	5017.0	5193.9	5298.8	5358.8	5478.8	5439.8	5223.9	5199.9	4879.0
50°	4390.2	4423.2	4702.1	4939.0	5145.9	5352.8	5589.7	5700.7	5547.7	5523.7	5190.9
52.5°	3751.5	3784.5	4075.3	4621.1	4960.0	5307.8	5670.7	5961.6	5898.6	5871.6	5523.7
55°	3286.7	3358.6	3688.5	4084.3	4696.1	5166.9	5718.7	6228.5	6276.4	6252.4	5886.6
57.5°	2824.8	2878.8	3127.7	3478.6	4336.2	4921.0	5715.7	6477.4	6672.3	6648.3	6255.4
60°	2282.1	2351.0	2549.0	2926.8	3856.4	4627.1	5631.7	6672.3	7053.1	7035.1	6612.3
62.5°	1910.2	1931.2	2072.2	2399.0	3238.7	4255.3	5442.8	6777.2	7398.0	7386.0	6933.2
65°	1538.4	1541.4	1670.3	1943.2	2641.9	3793.5	5121.9	6738.2	7658.9	7664.9	7164.1
67.5°	1187.5	1202.5	1319.5	1526.4	2099.1	3193.7	4663.1	6474.4	7661.9	7676.9	7032.1
70°	821.7	833.7	1010.6	1211.5	1622.3	2546.0	4042.4	5775.6	7032.1	7044.1	6303.4
72.5°	578.8	584.8	773.7	968.6	1268.5	1919.2	3049.8	4777.1	5994.6	6003.5	5301.8
75°	431.8	437.8	545.8	734.7	971.6	1328.5	2084.1	3658.5	4789.0	4789.0	4186.3
77.5°	305.9	308.9	353.9	506.8	647.7	896.6	1253.5	2396.0	3514.6	3520.6	3049.8
80°	206.9	209.9	230.9	341.9	404.8	485.8	680.7	1256.5	2216.1	2225.1	1937.2
82.5°	108.0	114.0	128.9	173.9	203.9	269.9	350.9	638.7	1226.5	1250.5	1163.5
85°	42.0	42.0	48.0	57.0	75.0	105.0	161.9	242.9	554.8	572.8	512.8
87.5°	15.0	15.0	18.0	18.0	21.0	24.0	27.0	36.0	63.0	63.0	60.0
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°	3262.7	3262.7	3262.7	3262.7	3262.7	3262.7	3262.7	3262.7	3262.7	3262.7	3262.7
2.5°	3232.7	3232.7	3217.7	3223.7	3220.7	3214.7	3208.7	3217.7	3208.7	3187.7	3184.7
5°	3238.7	3232.7	3208.7	3205.7	3196.7	3184.7	3169.7	3175.7	3160.7	3142.7	3139.7
7.5°	3241.7	3229.7	3196.7	3184.7	3166.7	3142.7	3118.7	3118.7	3097.7	3079.7	3076.7
10°	3235.7	3220.7	3175.7	3151.7	3118.7	3082.7	3049.8	3040.8	3016.8	2995.8	2995.8
12.5°	3238.7	3217.7	3160.7	3121.7	3076.7	3031.8	2989.8	2977.8	2956.8	2935.8	2932.8
15°	3256.7	3226.7	3154.7	3103.7	3037.8	2986.8	2941.8	2932.8	2914.8	2899.8	2899.8
17.5°	3274.7	3235.7	3145.7	3073.7	2992.8	2935.8	2893.8	2893.8	2881.8	2872.8	2872.8
20°	3283.7	3238.7	3127.7	3031.8	2938.8	2878.8	2839.8	2845.8	2842.8	2839.8	2839.8
22.5°	3304.7	3244.7	3112.7	2992.8	2881.8	2818.8	2782.9	2791.9	2788.9	2788.9	2791.9
25°	3337.6	3259.7	3100.7	2956.8	2827.8	2758.9	2719.9	2725.9	2725.9	2725.9	2725.9
27.5°	3382.6	3289.7	3097.7	2923.8	2773.9	2695.9	2647.9	2647.9	2635.9	2638.9	2641.9
30°	3451.6	3346.6	3103.7	2893.8	2716.9	2617.9	2561.0	2552.0	2549.0	2555.0	2558.0
32.5°	3535.6	3424.6	3139.7	2872.8	2656.9	2531.0	2459.0	2456.0	2447.0	2447.0	2447.0
35°	3640.5	3499.6	3172.7	2869.8	2596.9	2438.0	2360.0	2351.0	2330.0	2321.1	2321.1
37.5°	3775.5	3616.5	3211.7	2848.8	2546.0	2348.0	2255.1	2225.1	2201.1	2198.1	2198.1
40°	3940.4	3748.5	3268.7	2824.8	2492.0	2255.1	2132.1	2081.2	2084.1	2096.1	2096.1
42.5°	4135.3	3910.4	3340.6	2812.9	2414.0	2159.1	1988.2	1928.2	1949.2	1961.2	1964.2
45°	4363.2	4102.3	3421.6	2797.9	2342.0	2051.2	1835.3	1760.3	1769.3	1772.3	1775.3
47.5°	4627.1	4315.2	3505.6	2785.9	2261.1	1916.2	1667.3	1568.4	1565.4	1547.4	1553.4
50°	4903.0	4540.1	3592.5	2764.9	2162.1	1757.3	1490.4	1373.4	1349.4	1322.5	1325.5
52.5°	5196.9	4771.1	3673.5	2731.9	2039.2	1595.3	1322.5	1196.5	1148.5	1118.5	1124.5
55°	5520.7	5008.0	3751.5	2680.9	1910.2	1433.4	1172.5	1043.6	983.6	959.6	962.6
57.5°	5817.6	5235.9	3808.4	2617.9	1769.3	1286.5	1040.6	914.6	875.6	872.6	875.6
60°	6105.5	5427.8	3832.4	2531.0	1625.3	1151.5	917.6	821.7	794.7	809.7	812.7
62.5°	6348.4	5550.7	3820.4	2414.0	1478.4	1022.6	818.7	749.7	731.7	761.7	764.7
65°	6489.4	5589.7	3736.5	2246.1	1319.5	896.6	725.7	650.7	641.7	659.7	668.7
67.5°	6303.4	5346.8	3508.6	2015.2	1142.5	779.7	635.7	575.8	560.8	575.8	575.8
70°	5586.7	4633.1	2968.8	1649.3	947.6	665.7	551.8	509.8	497.8	509.8	506.8
72.5°	4654.1	3853.4	2339.0	1286.5	746.7	560.8	479.8	440.8	428.8	416.8	410.8
75°	3610.5	2926.8	1697.3	944.6	563.8	449.8	401.8	365.9	335.9	347.9	341.9
77.5°	2644.9	2054.2	1202.5	653.7	404.8	347.9	314.9	287.9	266.9	290.9	287.9
80°	1703.3	1328.5	803.7	437.8	278.9	242.9	230.9	215.9	236.9	308.9	314.9
82.5°	1040.6	842.7	479.8	284.9	182.9	161.9	149.9	149.9	242.9	266.9	269.9
85°	464.8	446.8	260.9	146.9	102.0	93.0	84.0	108.0	99.0	72.0	75.0
87.5°	75.0	78.0	57.0	51.0	39.0	39.0	30.0	21.0	15.0	9.0	9.0
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)