

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: P1210615

Luminaire Tested: **ARCH3-180-722-U-T3RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210615
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-2)
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-180-722-U-T3RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2200K, 1375mA LIGHTSQUARE WITH 40 LEDS AND TYPE III ROADWAY ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20307 lumens
Efficiency: N/A
Efficacy: 112.5 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type III - Short
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



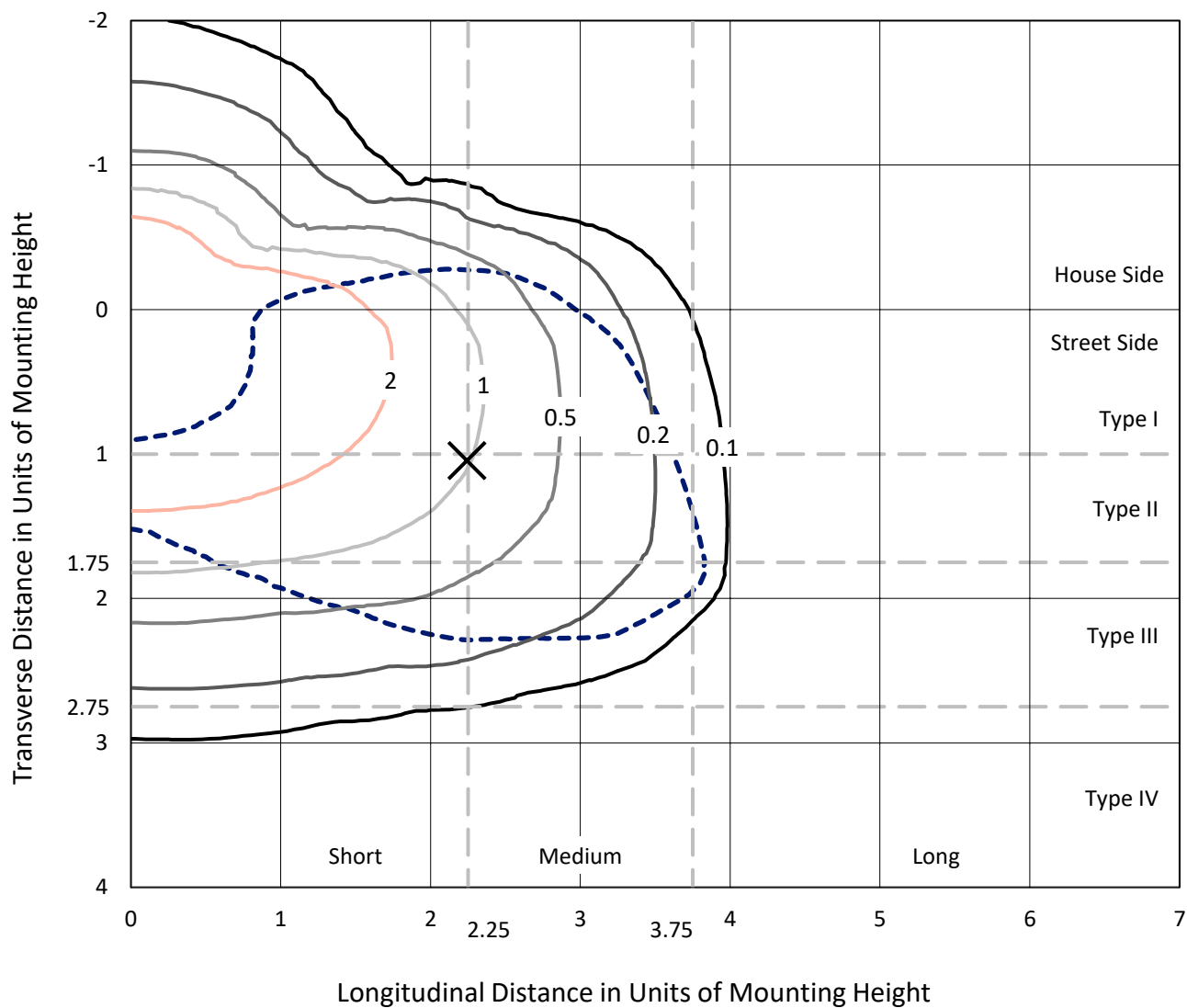
REPORT NUMBER: P1210615

CATALOG NUMBER: ARCH3-180-722-U-T3RE

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

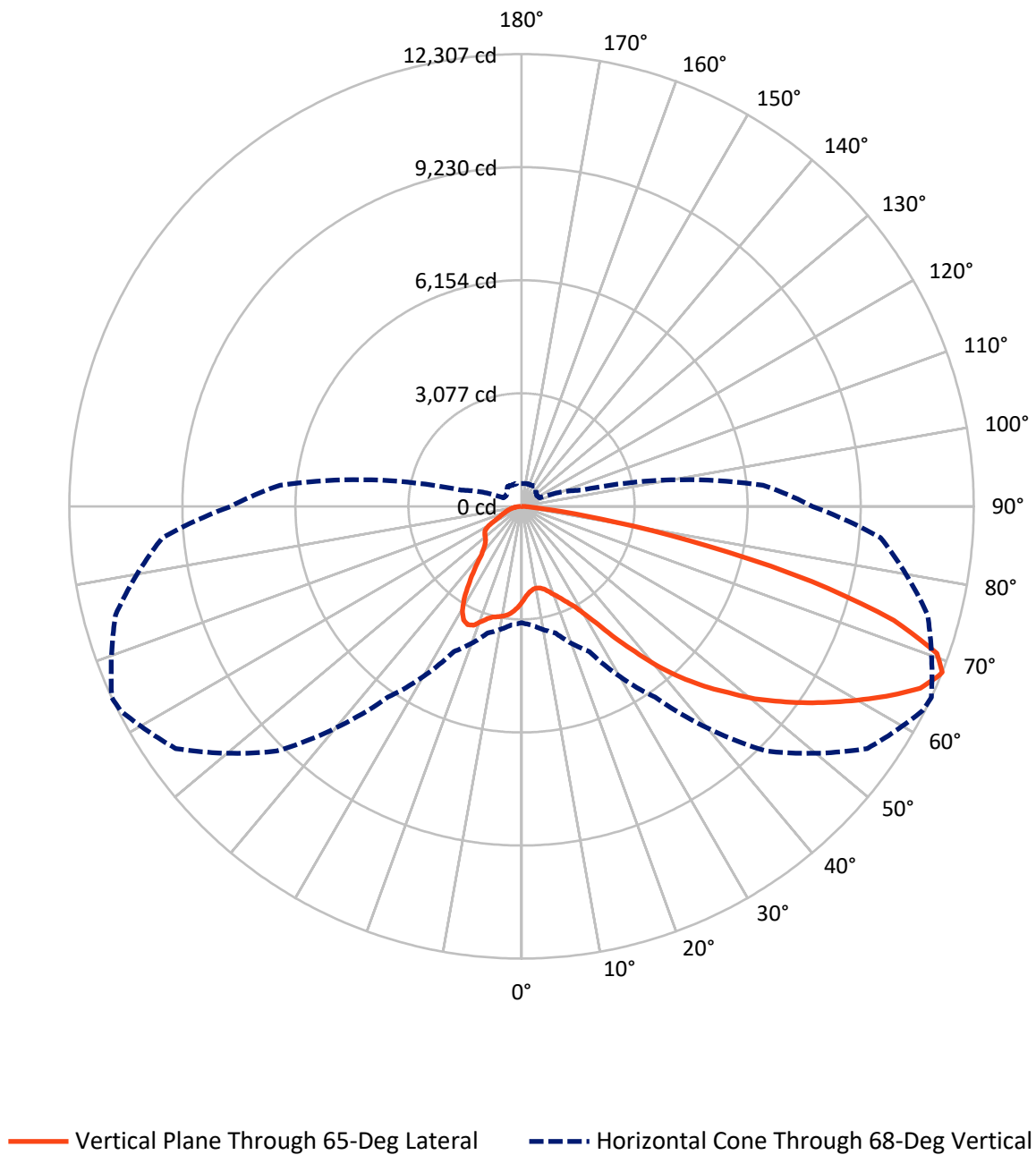


Based on 25 foot mounting height. Maximum calculated value = 4.7 fc
 Type III - Short - N/A

REPORT NUMBER: P1210615

CATALOG NUMBER: ARCH3-180-722-U-T3RE

Luminous Intensity Polar Plot



REPORT NUMBER: P1210615

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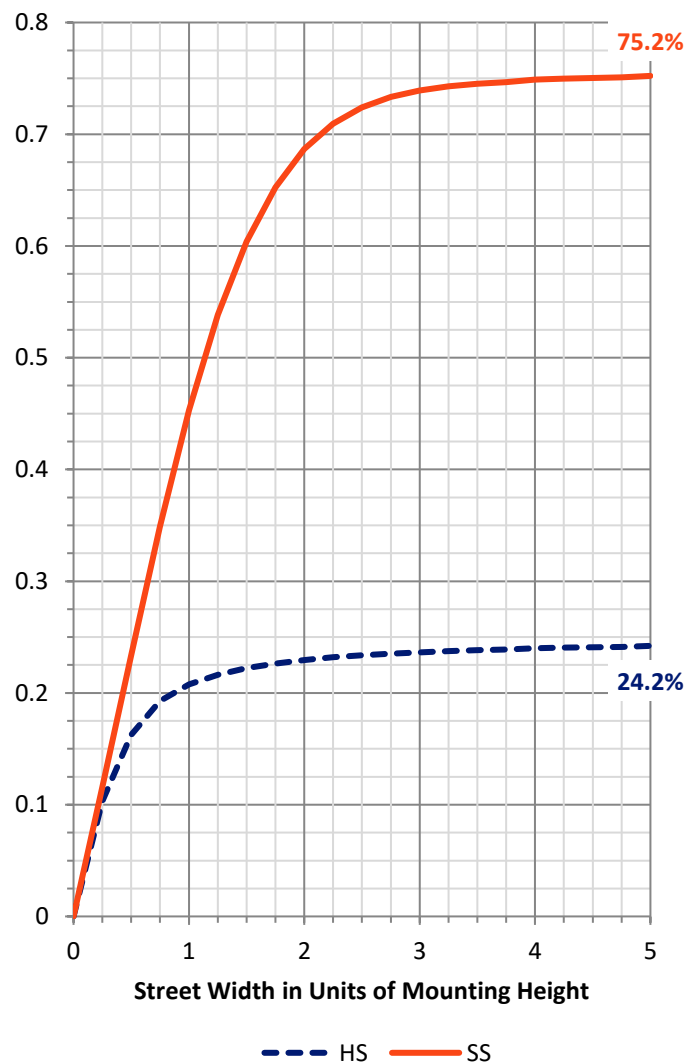
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4978.7	0.0	4978.7
	% Fixture	24.5	0.0	24.5
Street Side	Lumens	15328.3	0.0	15328.3
	% Fixture	75.5	0.0	75.5
Total	Lumens	20307.0	0.0	20307.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	248.0	1.2
10°-20°	807.5	4.0
20°-30°	1461.5	7.2
30°-40°	2299.1	11.3
40°-50°	3424.2	16.9
50°-60°	4491.9	22.1
60°-70°	4912.2	24.2
70°-80°	2430.7	12.0
80°-90°	231.9	1.1
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°	20307.0	100.0
0°-180°	20307.0	100.0

Coefficient of Utilization



REPORT NUMBER: P1210615

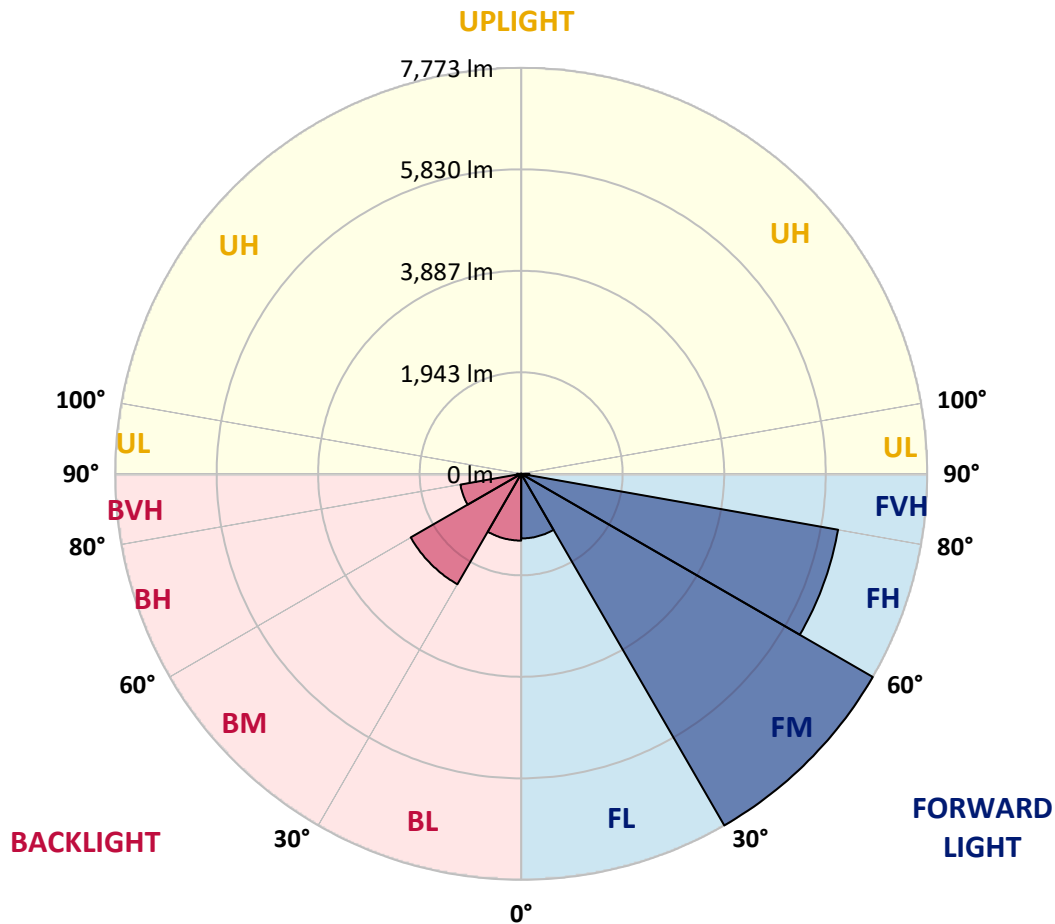
CATALOG NUMBER: ARCH3-180-722-U-T3RE

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1237.9	6.1			
FM	(30°-60°)	7773.2	38.3			
FH	(60°-80°)	6161.2	30.3			G3/7500
FVH	(80°-90°)	155.9	0.8			G2/225
BL	(0°-30°)	1279.1	6.3	B3/2500		
BM	(30°-60°)	2442.0	12.0	B2/2500		
BH	(60°-80°)	1181.7	5.8	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 Short



REPORT NUMBER: P1210615

CATALOG NUMBER: ARCH3-180-722-U-T3RE

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	2595.0	2595.0	2595.0	2595.0	2595.0	2595.0	2595.0	2595.0	2595.0	2595.0	2595.0
2.5°	2265.0	2259.8	2272.9	2286.0	2314.8	2348.8	2396.0	2435.3	2440.5	2513.8	2571.4
5°	2131.5	2123.6	2136.7	2152.5	2165.5	2207.4	2257.2	2314.8	2338.4	2445.7	2568.8
7.5°	2144.6	2142.0	2147.2	2142.0	2142.0	2160.3	2194.3	2252.0	2278.1	2406.5	2581.9
10°	2220.5	2225.8	2228.4	2212.7	2197.0	2189.1	2199.6	2238.9	2257.2	2409.1	2639.5
12.5°	2346.2	2354.1	2356.7	2327.9	2306.9	2272.9	2254.6	2270.3	2283.4	2435.3	2720.7
15°	2516.4	2521.7	2503.3	2485.0	2432.6	2390.7	2346.2	2333.1	2338.4	2490.2	2812.3
17.5°	2715.4	2707.6	2707.6	2663.1	2595.0	2529.5	2456.2	2445.7	2445.7	2579.3	2943.3
20°	2932.8	2940.6	2917.1	2856.8	2788.8	2686.6	2613.3	2566.2	2571.4	2681.4	3103.0
22.5°	3247.0	3260.1	3197.3	3110.8	3006.1	2888.3	2783.5	2707.6	2710.2	2814.9	3268.0
25°	3584.8	3590.0	3550.8	3435.5	3294.1	3126.6	2987.8	2890.9	2888.3	2964.2	3480.1
27.5°	3930.5	3954.0	3875.5	3765.5	3634.6	3425.1	3241.8	3110.8	3089.9	3192.0	3744.5
30°	4286.6	4315.4	4239.4	4132.1	3969.7	3791.7	3574.3	3422.5	3409.4	3545.5	4098.0
32.5°	4645.3	4653.2	4592.9	4503.9	4357.3	4189.7	4014.2	3846.7	3833.6	4056.1	4556.3
35°	4938.6	4962.2	4920.3	4899.3	4792.0	4637.5	4467.3	4370.4	4404.4	4689.8	5150.7
37.5°	5292.1	5315.7	5268.5	5263.3	5229.3	5095.7	4977.9	4985.7	5019.8	5407.3	5776.5
40°	5802.7	5828.9	5708.4	5656.1	5656.1	5525.2	5485.9	5671.8	5716.3	6114.3	6428.6
42.5°	6234.8	6276.7	6206.0	6171.9	6069.8	5978.2	6025.3	6287.1	6363.1	6789.9	6996.8
45°	6444.3	6475.7	6559.5	6659.0	6559.5	6399.7	6577.8	6873.7	6981.1	7413.1	7565.0
47.5°	6556.9	6585.7	6682.6	6949.6	7017.7	6884.2	7135.6	7504.8	7578.1	8031.1	8107.0
50°	6572.6	6664.2	6789.9	7057.0	7368.6	7386.9	7695.9	8146.3	8232.7	8638.6	8583.6
52.5°	6444.3	6480.9	6740.2	7190.6	7536.2	7850.4	8306.1	8761.7	8824.5	9209.5	9005.2
55°	6234.8	6287.1	6546.4	7159.1	7698.6	8290.3	8926.7	9366.6	9437.3	9764.6	9395.4
57.5°	6046.2	6072.4	6350.0	7067.5	7860.9	8730.3	9479.2	9997.6	10044.8	10251.6	9683.4
60°	5836.8	5865.6	6143.1	6871.1	7981.4	9062.8	10055.2	10634.0	10675.8	10764.9	10018.6
62.5°	5294.7	5370.7	5718.9	6546.4	7949.9	9442.5	10670.6	11262.4	11314.8	11217.9	10283.1
65°	4299.7	4407.0	4833.9	5810.6	7656.7	9688.7	11173.4	11841.1	11930.1	11558.3	10353.8
67.5°	3338.7	3414.6	3757.6	4611.3	6627.6	9565.6	11498.1	12239.1	12265.3	11503.3	9961.0
68°	3165.8	3241.8	3569.1	4359.9	6342.1	9418.9	11490.2	12249.6	12307.2	11443.1	9809.1
70°	2422.2	2508.6	2820.2	3453.9	5111.4	8486.7	11011.0	11998.2	11990.4	10715.1	8866.4
72.5°	1513.5	1563.3	1778.0	2178.6	3380.6	6457.4	9345.6	10581.6	10602.5	8735.5	6800.4
75°	961.0	961.0	950.5	1055.3	1733.5	3679.1	6947.0	8146.3	8162.0	6116.9	4286.6
77.5°	835.3	811.8	699.2	591.8	691.3	1429.7	4111.1	5260.7	5174.3	3294.1	2034.6
80°	704.4	665.1	573.5	476.6	445.2	447.8	1579.0	2670.9	2555.7	1186.2	675.6
82.5°	508.0	474.0	432.1	374.5	343.0	267.1	329.9	772.5	754.1	343.0	220.0
85°	274.9	248.8	243.5	246.1	206.9	165.0	138.8	170.2	170.2	149.3	125.7
87.5°	96.9	70.7	83.8	94.3	81.2	68.1	55.0	65.5	68.1	65.5	60.2
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: P1210615

CATALOG NUMBER: ARCH3-180-722-U-T3RE

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2595.0	2595.0	2595.0	2595.0	2595.0	2595.0	2595.0	2595.0	2595.0	2595.0	2595.0
2.5°	2605.5	2631.6	2694.5	2749.5	2788.8	2822.8	2841.1	2849.0	2867.3	2869.9	2864.7
5°	2626.4	2694.5	2788.8	2869.9	2914.5	2932.8	2938.0	2940.6	2932.8	2938.0	2932.8
7.5°	2681.4	2767.8	2901.4	2972.1	2979.9	2951.1	2953.7	2943.3	2953.7	2964.2	2964.2
10°	2765.2	2875.2	3000.9	3027.0	2993.0	2977.3	3008.7	3071.6	3092.5	3121.3	3121.3
12.5°	2875.2	3006.1	3095.1	3071.6	3040.1	3092.5	3184.2	3247.0	3268.0	3278.4	3270.6
15°	3000.9	3142.3	3186.8	3108.2	3165.8	3278.4	3309.9	3273.2	3220.8	3197.3	3210.3
17.5°	3160.6	3278.4	3252.2	3199.9	3330.8	3346.5	3244.4	3126.6	3042.8	3011.3	3032.3
20°	3328.2	3430.3	3309.9	3333.4	3414.6	3247.0	3053.2	2901.4	2828.0	2814.9	2835.9
22.5°	3506.2	3571.7	3367.5	3487.9	3367.5	3027.0	2794.0	2715.4	2697.1	2718.1	2736.4
25°	3707.9	3700.0	3467.0	3535.0	3192.0	2757.3	2618.6	2613.3	2613.3	2626.4	2652.6
27.5°	3935.7	3812.6	3566.5	3472.2	2888.3	2534.8	2508.6	2511.2	2503.3	2506.0	2519.0
30°	4200.2	3964.5	3676.5	3265.3	2547.9	2367.2	2356.7	2348.8	2330.5	2325.3	2330.5
32.5°	4532.7	4124.2	3789.0	2924.9	2249.3	2194.3	2189.1	2147.2	2102.7	2097.5	2115.8
35°	4954.3	4414.9	3846.7	2498.1	2003.2	2000.6	1982.2	1916.8	1859.2	1859.2	1846.1
37.5°	5436.1	4789.3	3870.2	2081.8	1798.9	1812.0	1759.7	1675.9	1631.4	1605.2	1613.0
40°	5928.4	5216.2	3867.6	1717.8	1620.9	1623.5	1584.2	1482.1	1372.1	1306.7	1322.4
42.5°	6402.4	5603.7	3799.5	1524.0	1476.9	1469.0	1437.6	1298.8	1207.2	1154.8	1157.4
45°	6782.1	6004.3	3694.8	1408.8	1345.9	1359.0	1288.3	1204.5	1120.7	1073.6	1071.0
47.5°	7161.7	6308.1	3527.2	1338.1	1249.1	1225.5	1196.7	1139.1	1076.2	1023.9	1026.5
50°	7507.4	6567.3	3370.1	1290.9	1160.0	1099.8	1105.0	1071.0	1016.0	968.9	966.2
52.5°	7750.9	6737.5	3283.7	1264.8	1052.7	987.2	1005.5	987.2	934.8	900.8	898.2
55°	7994.4	6868.5	3312.5	1230.7	934.8	882.5	913.9	908.6	879.8	869.4	872.0
57.5°	8190.8	6968.0	3414.6	1167.9	822.2	790.8	843.2	827.5	806.5	809.1	809.1
60°	8382.0	7096.3	3535.0	1023.9	725.3	728.0	777.7	748.9	735.8	759.4	762.0
62.5°	8581.0	7235.1	3435.5	814.4	641.5	659.9	717.5	693.9	699.2	733.2	743.7
65°	8557.4	7222.0	2799.2	667.7	568.2	604.9	691.3	683.4	686.1	699.2	704.4
67.5°	8075.6	6761.1	1924.6	568.2	515.9	560.4	670.3	638.9	641.5	633.7	636.3
68°	7913.3	6598.8	1696.8	552.5	505.4	549.9	659.9	631.1	633.7	625.8	623.2
70°	7028.2	5650.8	1073.6	487.1	468.7	521.1	607.5	597.0	594.4	589.2	589.2
72.5°	5357.6	4171.4	565.6	421.6	426.8	476.6	542.0	563.0	549.9	552.5	568.2
75°	3548.1	2508.6	392.8	361.4	374.5	408.5	481.8	523.7	510.6	518.5	510.6
77.5°	1877.5	1351.2	314.2	306.4	306.4	329.9	398.0	463.5	463.5	458.2	450.4
80°	615.4	476.6	251.4	240.9	246.1	259.2	319.5	379.7	387.5	377.1	371.8
82.5°	206.9	220.0	188.5	175.4	180.7	191.2	240.9	290.7	293.3	272.3	267.1
85°	128.3	146.6	117.8	115.2	115.2	117.8	146.6	159.7	146.6	130.9	136.2
87.5°	60.2	73.3	55.0	47.1	39.3	34.0	26.2	10.5	10.5	5.2	5.2
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)