

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: P836885

Luminaire Tested: **ARCH3-90-722-U-T2U**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836885
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: ARCH3-90-722-U-T2U
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2200K, 735mA LIGHTSQUARE WITH 40 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12871 lumens
Efficiency: N/A
Efficacy: 138.2 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): 93.1
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

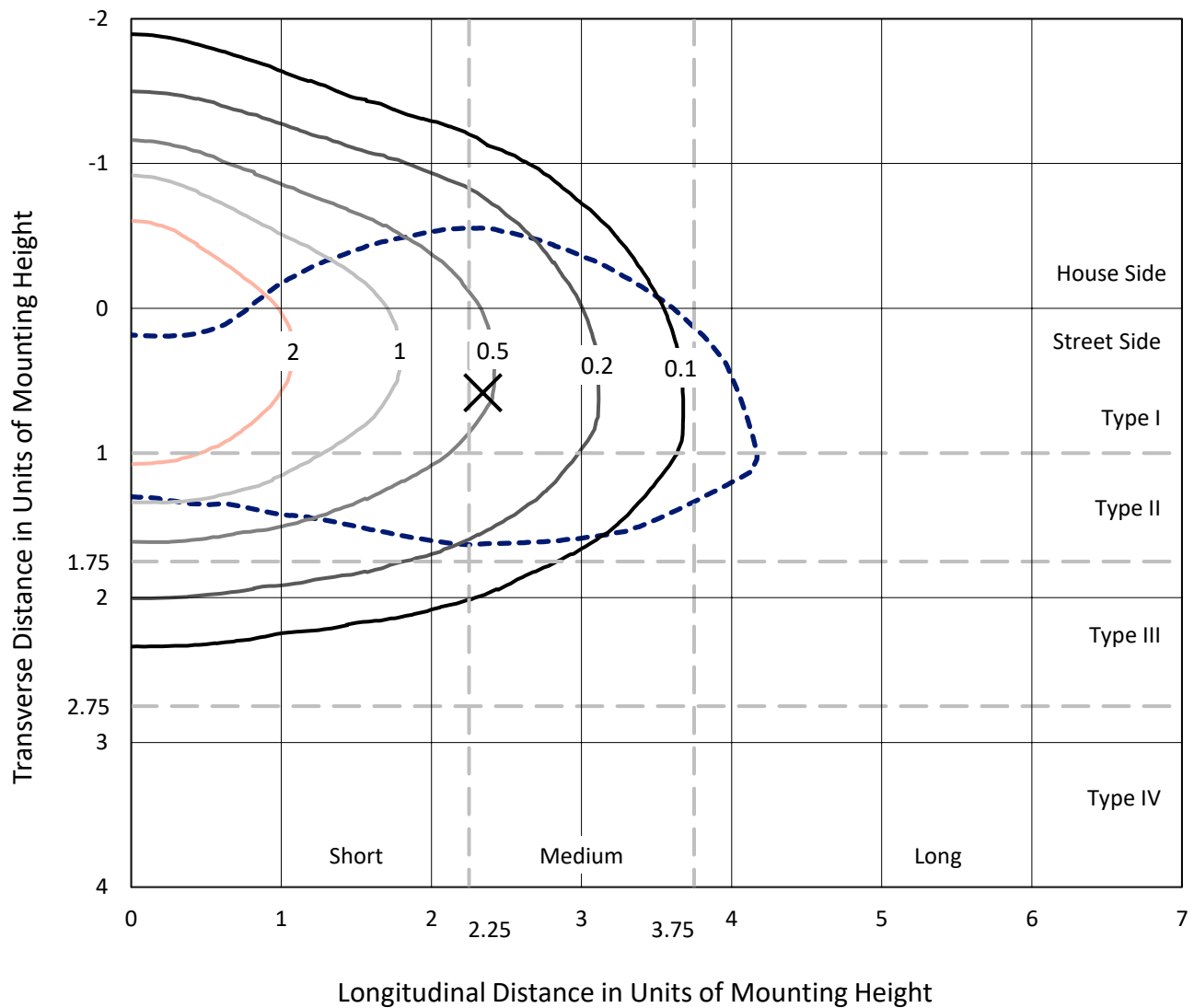


REPORT NUMBER: P836885

CATALOG NUMBER: ARCH3-90-722-U-T2U

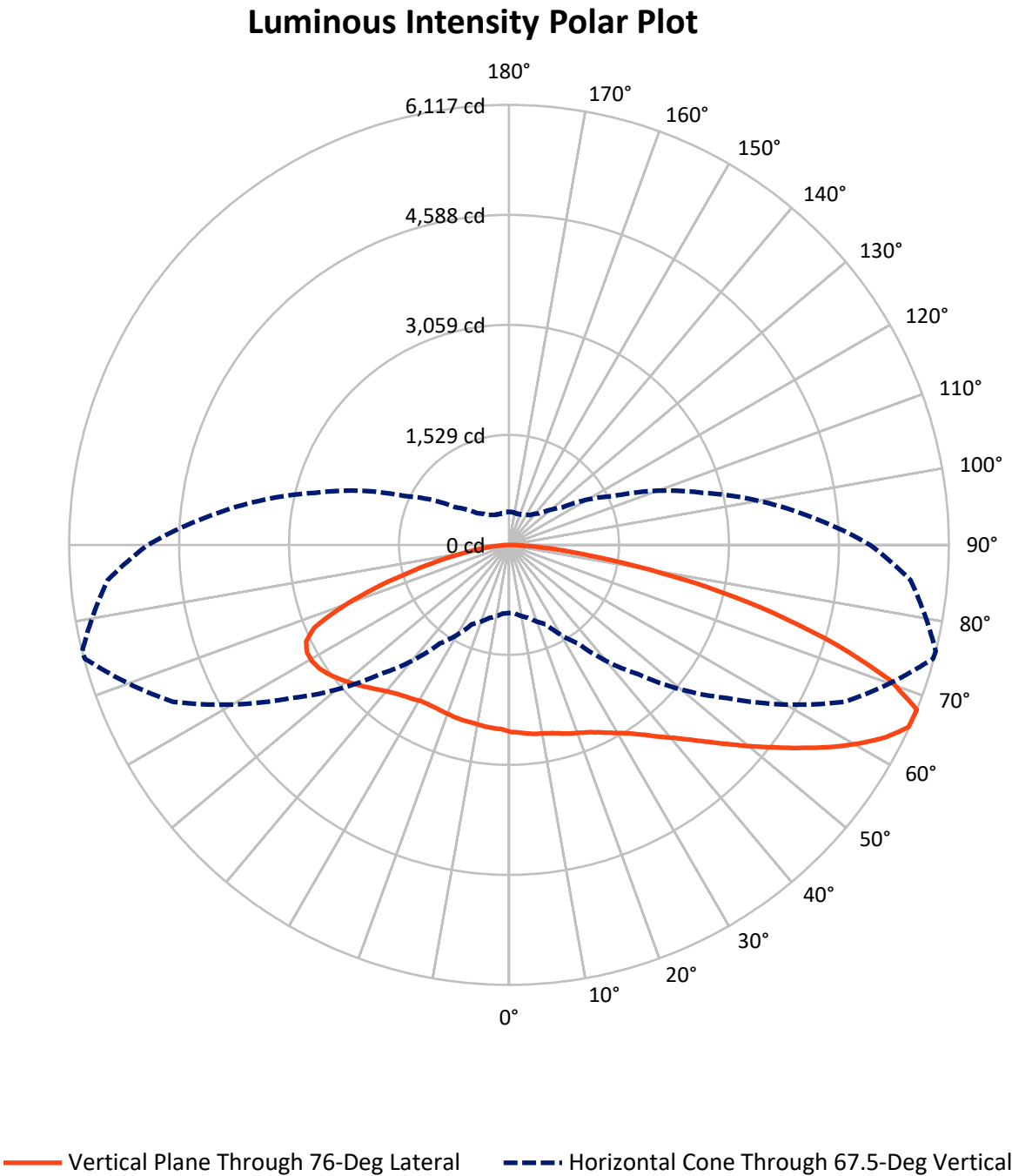
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



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

REPORT NUMBER: P836885
CATALOG NUMBER: ARCH3-90-722-U-T2U



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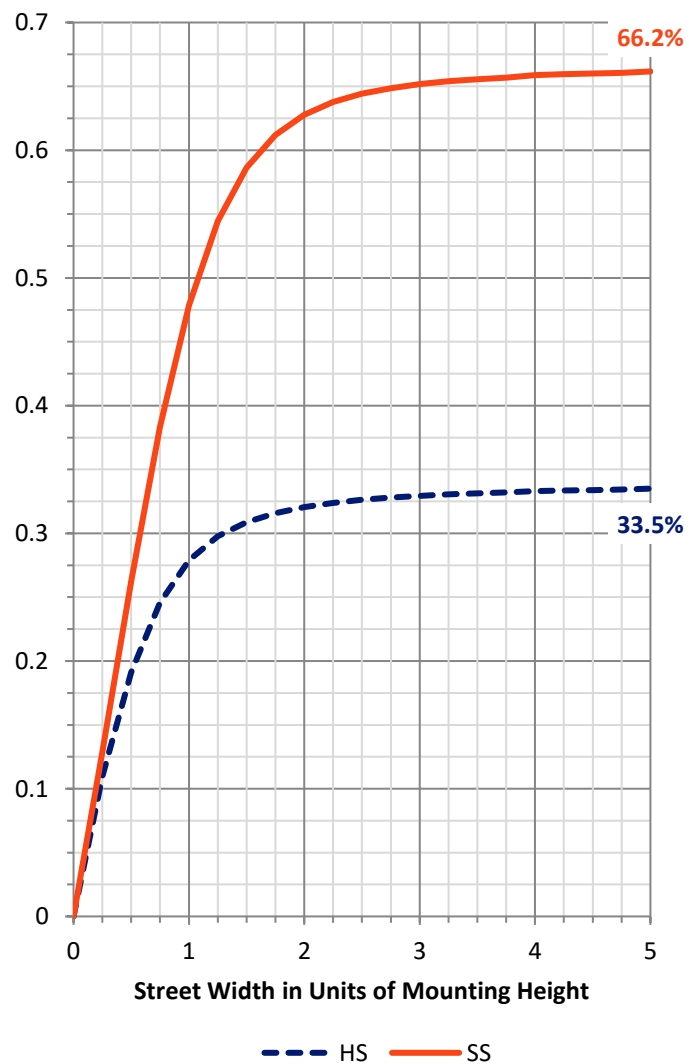
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4349.2	0.0	4349.2
	% Fixture	33.8	0.0	33.8
Street Side	Lumens	8521.8	0.0	8521.8
	% Fixture	66.2	0.0	66.2
Total	Lumens	12871.0	0.0	12871.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	250.7	1.9
10°-20°	766.4	6.0
20°-30°	1302.2	10.1
30°-40°	1852.9	14.4
40°-50°	2340.1	18.2
50°-60°	2533.6	19.7
60°-70°	2356.5	18.3
70°-80°	1265.7	9.8
80°-90°	202.8	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°	12871.0	100.0
0°-180°	12871.0	100.0

Coefficient of Utilization



REPORT NUMBER: P836885

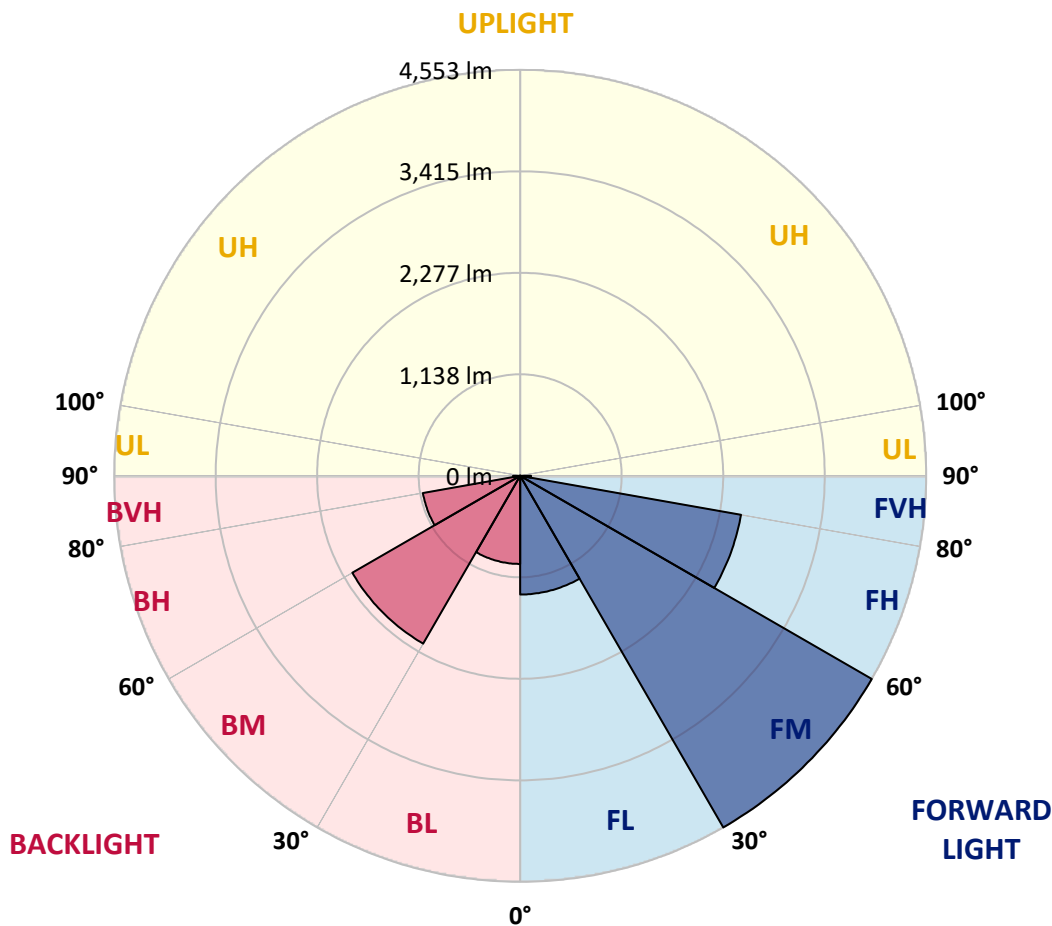
CATALOG NUMBER: ARCH3-90-722-U-T2U

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1331.0	10.3			
FM	(30°-60°)	4553.3	35.4			
FH	(60°-80°)	2514.9	19.5			G2/5000
FVH	(80°-90°)	122.7	1.0			G2/225
BL	(0°-30°)	988.4	7.7	B2/1000		
BM	(30°-60°)	2173.3	16.9	B2/2500		
BH	(60°-80°)	1107.3	8.6	B3/2500		G3/2500
BVH	(80°-90°)	80.1	0.6			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 II Medium



REPORT NUMBER: P836885

CATALOG NUMBER: ARCH3-90-722-U-T2U

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2599.9	2599.9	2599.9	2599.9	2599.9	2599.9	2599.9	2599.9	2599.9	2599.9	2599.9
2.5°	2678.8	2674.0	2654.9	2657.3	2657.3	2654.9	2626.2	2614.3	2614.3	2611.9	2585.6
5°	2774.4	2767.2	2745.7	2740.9	2731.3	2719.4	2674.0	2647.7	2635.8	2633.4	2597.5
7.5°	2886.7	2877.1	2850.8	2836.5	2812.6	2781.5	2724.2	2683.6	2654.9	2652.5	2602.3
10°	2999.0	2989.4	2958.4	2932.1	2898.6	2848.4	2774.4	2714.6	2669.2	2664.4	2604.7
12.5°	3132.8	3123.2	3085.0	3051.6	3001.4	2934.5	2836.5	2755.2	2693.1	2685.9	2611.9
15°	3273.8	3259.5	3221.2	3183.0	3120.9	3034.8	2917.7	2810.2	2731.3	2719.4	2633.4
17.5°	3390.9	3371.8	3340.7	3302.5	3233.2	3132.8	2999.0	2865.2	2767.2	2757.6	2654.9
20°	3491.2	3476.9	3443.5	3407.6	3333.5	3223.6	3075.4	2920.1	2800.6	2788.7	2671.6
22.5°	3586.8	3567.7	3548.6	3522.3	3441.1	3319.2	3163.9	2987.0	2843.7	2829.3	2693.1
25°	3696.8	3675.2	3668.1	3653.7	3558.2	3433.9	3271.4	3070.7	2903.4	2886.7	2731.3
27.5°	3833.0	3809.1	3794.7	3794.7	3680.0	3551.0	3386.1	3168.6	2972.7	2958.4	2779.1
30°	3976.3	3947.7	3926.2	3926.2	3797.1	3668.1	3498.4	3266.6	3051.6	3034.8	2841.3
32.5°	4103.0	4074.3	4050.4	4048.0	3914.2	3785.2	3615.5	3374.2	3147.1	3125.6	2917.7
35°	4201.0	4174.7	4153.2	4158.0	4031.3	3904.6	3746.9	3517.5	3266.6	3242.7	3018.1
37.5°	4260.7	4251.1	4239.2	4255.9	4138.8	4019.4	3883.1	3656.1	3402.8	3381.3	3142.4
40°	4291.8	4284.6	4332.4	4353.9	4229.6	4122.1	4019.4	3799.5	3551.0	3527.1	3285.7
42.5°	4337.2	4396.9	4416.0	4411.3	4296.5	4201.0	4143.6	3954.8	3725.4	3703.9	3457.8
45°	4174.7	4160.3	4265.5	4322.8	4301.3	4251.1	4260.7	4141.2	3928.5	3907.0	3656.1
47.5°	3957.2	3938.1	3997.8	4138.8	4222.5	4270.3	4365.8	4334.8	4162.7	4143.6	3887.9
50°	3498.4	3524.7	3746.9	3935.7	4100.6	4265.5	4454.3	4542.7	4420.8	4401.7	4136.4
52.5°	2989.4	3015.7	3247.5	3682.4	3952.4	4229.6	4518.8	4750.6	4700.4	4678.9	4401.7
55°	2619.0	2676.4	2939.2	3254.7	3742.2	4117.3	4557.0	4963.3	5001.5	4982.4	4690.8
57.5°	2251.0	2294.0	2492.4	2772.0	3455.4	3921.4	4554.6	5161.6	5316.9	5297.8	4984.8
60°	1818.5	1873.5	2031.2	2332.3	3073.1	3687.2	4487.7	5316.9	5620.4	5606.1	5269.1
62.5°	1522.2	1538.9	1651.2	1911.7	2580.8	3390.9	4337.2	5400.6	5895.2	5885.6	5524.8
65°	1225.9	1228.3	1331.0	1548.5	2105.3	3022.9	4081.5	5369.5	6103.1	6107.9	5708.8
67.5°	946.3	958.2	1051.4	1216.3	1672.7	2545.0	3715.9	5159.2	6105.5	6117.4	5603.7
70°	654.8	664.3	805.3	965.4	1292.8	2028.8	3221.2	4602.4	5603.7	5613.2	5023.0
72.5°	461.2	466.0	616.5	771.8	1010.8	1529.4	2430.3	3806.7	4776.9	4784.0	4224.9
75°	344.1	348.9	434.9	585.5	774.2	1058.6	1660.8	2915.3	3816.2	3816.2	3335.9
77.5°	243.7	246.1	282.0	403.8	516.2	714.5	998.9	1909.3	2800.6	2805.4	2430.3
80°	164.9	167.3	184.0	272.4	322.6	387.1	542.4	1001.3	1765.9	1773.1	1543.7
82.5°	86.0	90.8	102.8	138.6	162.5	215.1	279.6	509.0	977.4	996.5	927.2
85°	33.5	33.5	38.2	45.4	59.7	83.6	129.0	193.6	442.1	456.4	408.6
87.5°	11.9	11.9	14.3	14.3	16.7	19.1	21.5	28.7	50.2	50.2	47.8
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: P836885

CATALOG NUMBER: ARCH3-90-722-U-T2U

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2599.9	2599.9	2599.9	2599.9	2599.9	2599.9	2599.9	2599.9	2599.9	2599.9	2599.9
2.5°	2576.0	2576.0	2564.1	2568.8	2566.5	2561.7	2556.9	2564.1	2556.9	2540.2	2537.8
5°	2580.8	2576.0	2556.9	2554.5	2547.3	2537.8	2525.8	2530.6	2518.7	2504.3	2501.9
7.5°	2583.2	2573.6	2547.3	2537.8	2523.4	2504.3	2485.2	2485.2	2468.5	2454.1	2451.8
10°	2578.4	2566.5	2530.6	2511.5	2485.2	2456.5	2430.3	2423.1	2404.0	2387.2	2387.2
12.5°	2580.8	2564.1	2518.7	2487.6	2451.8	2415.9	2382.5	2372.9	2356.2	2339.4	2337.1
15°	2595.1	2571.2	2513.9	2473.3	2420.7	2380.1	2344.2	2337.1	2322.7	2310.8	2310.8
17.5°	2609.5	2578.4	2506.7	2449.4	2384.8	2339.4	2306.0	2306.0	2296.4	2289.3	2289.3
20°	2616.6	2580.8	2492.4	2415.9	2341.8	2294.0	2263.0	2267.8	2265.4	2263.0	2263.0
22.5°	2633.4	2585.6	2480.4	2384.8	2296.4	2246.2	2217.6	2224.7	2222.4	2222.4	2224.7
25°	2659.7	2597.5	2470.9	2356.2	2253.4	2198.5	2167.4	2172.2	2172.2	2172.2	2172.2
27.5°	2695.5	2621.4	2468.5	2329.9	2210.4	2148.3	2110.0	2110.0	2100.5	2102.9	2105.3
30°	2750.5	2666.8	2473.3	2306.0	2165.0	2086.1	2040.7	2033.6	2031.2	2036.0	2038.4
32.5°	2817.4	2729.0	2501.9	2289.3	2117.2	2016.8	1959.5	1957.1	1949.9	1949.9	1949.9
35°	2901.0	2788.7	2528.2	2286.9	2069.4	1942.8	1880.6	1873.5	1856.7	1849.6	1849.6
37.5°	3008.5	2881.9	2559.3	2270.1	2028.8	1871.1	1797.0	1773.1	1754.0	1751.6	1751.6
40°	3140.0	2987.0	2604.7	2251.0	1985.8	1797.0	1699.0	1658.4	1660.8	1670.3	1670.3
42.5°	3295.3	3116.1	2662.0	2241.5	1923.6	1720.5	1584.3	1536.5	1553.3	1562.8	1565.2
45°	3476.9	3269.0	2726.6	2229.5	1866.3	1634.5	1462.5	1402.7	1409.9	1412.3	1414.7
47.5°	3687.2	3438.7	2793.5	2220.0	1801.8	1527.0	1328.6	1249.8	1247.4	1233.0	1237.8
50°	3907.0	3617.9	2862.8	2203.2	1722.9	1400.3	1187.6	1094.4	1075.3	1053.8	1056.2
52.5°	4141.2	3801.9	2927.3	2176.9	1624.9	1271.3	1053.8	953.5	915.2	891.3	896.1
55°	4399.3	3990.7	2989.4	2136.3	1522.2	1142.2	934.3	831.6	783.8	764.7	767.1
57.5°	4635.9	4172.3	3034.8	2086.1	1409.9	1025.1	829.2	728.8	697.8	695.4	697.8
60°	4865.3	4325.2	3053.9	2016.8	1295.2	917.6	731.2	654.8	633.3	645.2	647.6
62.5°	5058.8	4423.2	3044.4	1923.6	1178.1	814.9	652.4	597.4	583.1	607.0	609.4
65°	5171.2	4454.3	2977.5	1789.8	1051.4	714.5	578.3	518.5	511.4	525.7	532.9
67.5°	5023.0	4260.7	2795.9	1605.8	910.4	621.3	506.6	458.8	446.9	458.8	458.8
70°	4451.9	3692.0	2365.7	1314.3	755.1	530.5	439.7	406.2	396.7	406.2	403.8
72.5°	3708.7	3070.7	1863.9	1025.1	595.0	446.9	382.3	351.3	341.7	332.2	327.4
75°	2877.1	2332.3	1352.5	752.7	449.2	358.4	320.2	291.5	267.6	277.2	272.4
77.5°	2107.7	1636.9	958.2	520.9	322.6	277.2	250.9	229.4	212.7	231.8	229.4
80°	1357.3	1058.6	640.4	348.9	222.2	193.6	184.0	172.1	188.8	246.1	250.9
82.5°	829.2	671.5	382.3	227.0	145.8	129.0	119.5	119.5	193.6	212.7	215.1
85°	370.4	356.1	207.9	117.1	81.2	74.1	66.9	86.0	78.9	57.4	59.7
87.5°	59.7	62.1	45.4	40.6	31.1	31.1	23.9	16.7	11.9	7.2	7.2
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)