

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: P799301

Luminaire Tested: **ARCH2-100-750-U-T2U**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P799301
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-18)
Test Lab: INNOVATION CENTER
Issue Date: 4/4/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH2-100-750-U-T2U
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 760mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13337 lumens
Efficiency: N/A
Efficacy: 129.1 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

Input Watts (W): 103.3
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



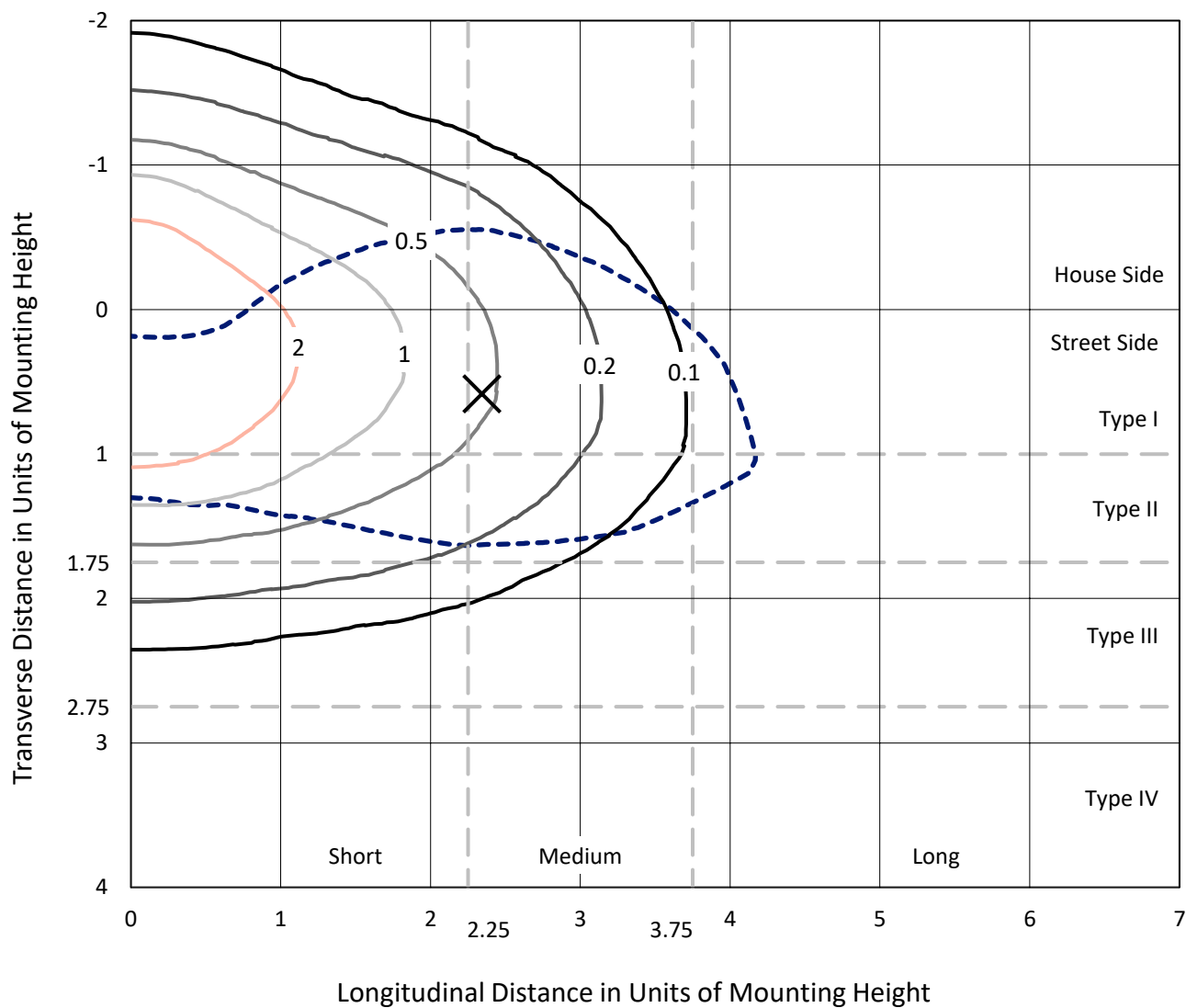
REPORT NUMBER: P799301

CATALOG NUMBER: ARCH2-100-750-U-T2U

Iso-Footcandle Lines of Horizontal Illumination

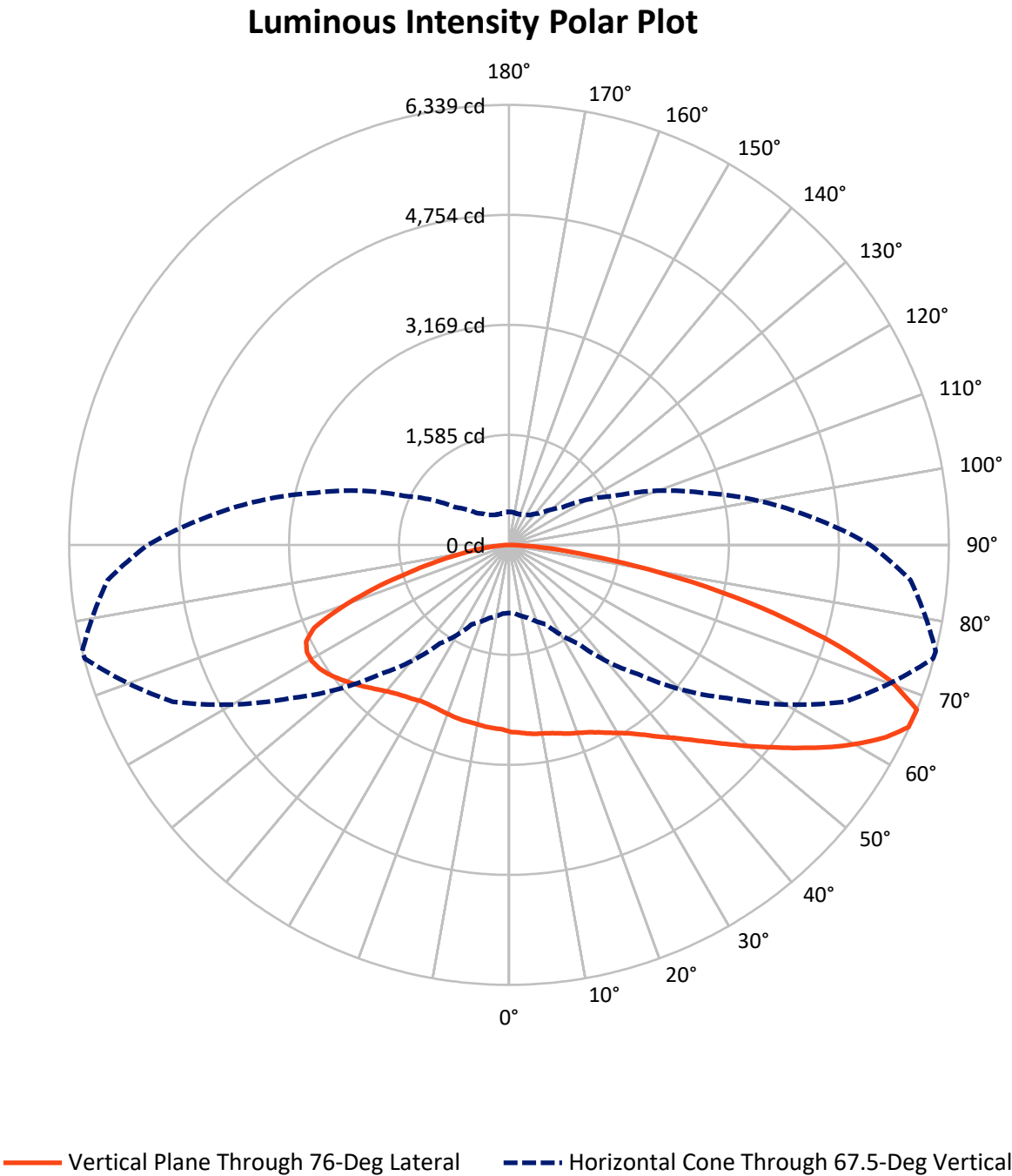
✕ Max cd

--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 fc
Type II - Medium - N/A

REPORT NUMBER: P799301
CATALOG NUMBER: ARCH2-100-750-U-T2U



REPORT NUMBER: P799301

CATALOG NUMBER: ARCH2-100-750-U-T2U

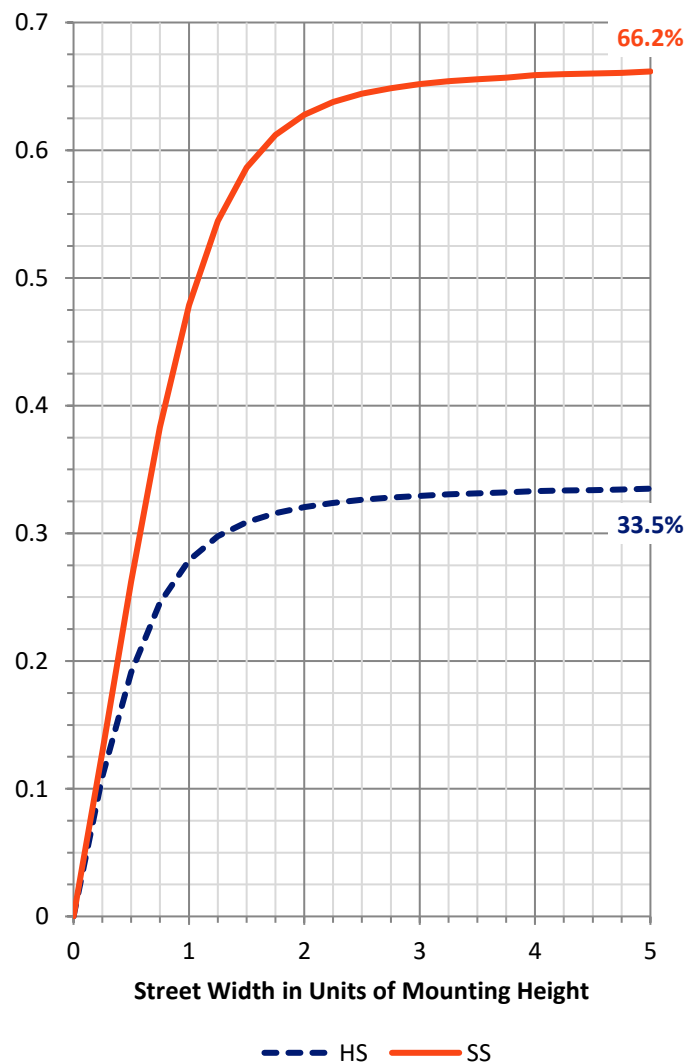
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4506.6	0.0	4506.6
	% Fixture	33.8	0.0	33.8
Street Side	Lumens	8830.4	0.0	8830.4
	% Fixture	66.2	0.0	66.2
Total	Lumens	13337.0	0.0	13337.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	259.8	1.9
10°-20°	794.2	6.0
20°-30°	1349.4	10.1
30°-40°	1920.0	14.4
40°-50°	2424.8	18.2
50°-60°	2625.4	19.7
60°-70°	2441.9	18.3
70°-80°	1311.5	9.8
80°-90°	210.2	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°	13337.0	100.0
0°-180°	13337.0	100.0

Coefficient of Utilization



REPORT NUMBER: P799301

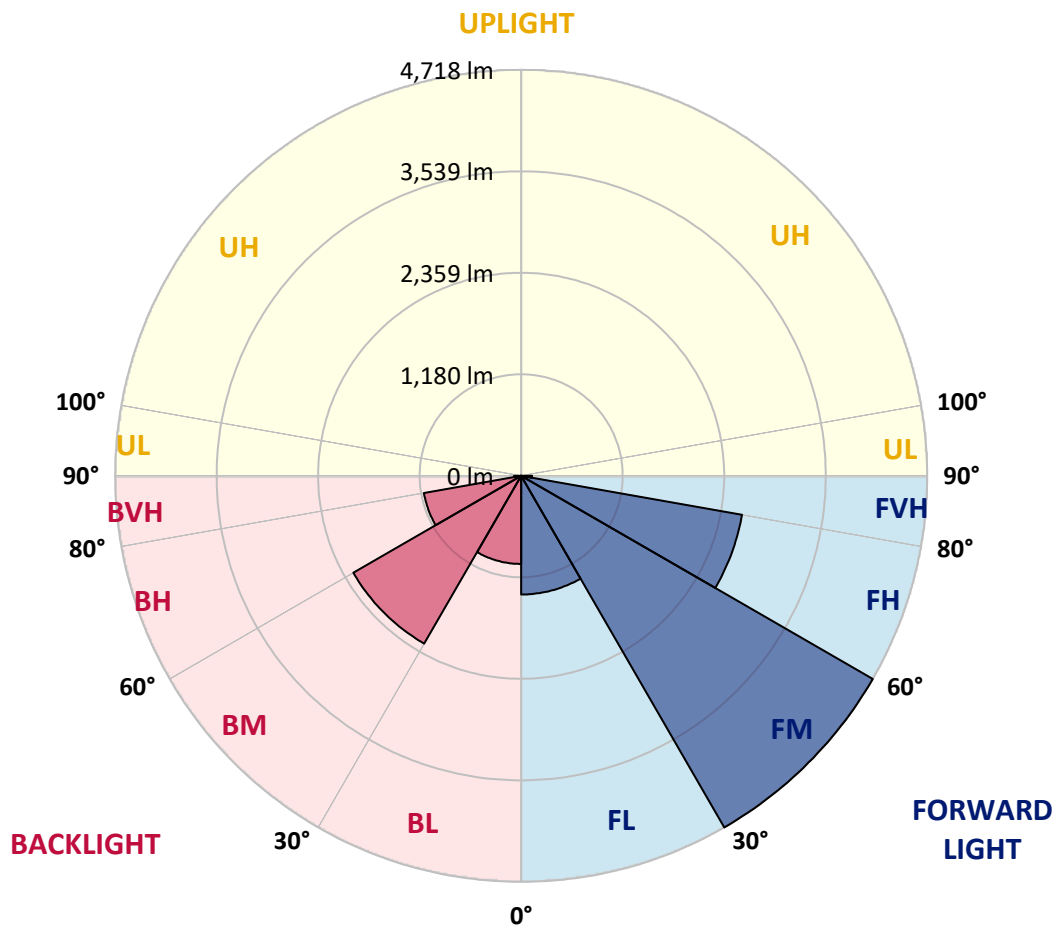
CATALOG NUMBER: ARCH2-100-750-U-T2U

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1379.2	10.3			
FM	(30°-60°)	4718.1	35.4			
FH	(60°-80°)	2605.9	19.5			G2/5000
FVH	(80°-90°)	127.1	1.0			G2/225
BL	(0°-30°)	1024.1	7.7	B3/2500		
BM	(30°-60°)	2252.0	16.9	B2/2500		
BH	(60°-80°)	1147.4	8.6	B3/2500		G3/2500
BVH	(80°-90°)	83.0	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: P799301

CATALOG NUMBER: ARCH2-100-750-U-T2U

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2694.0	2694.0	2694.0	2694.0	2694.0	2694.0	2694.0	2694.0	2694.0	2694.0	2694.0
2.5°	2775.8	2770.8	2751.0	2753.5	2753.5	2751.0	2721.3	2708.9	2708.9	2706.4	2679.2
5°	2874.8	2867.4	2845.1	2840.1	2830.2	2817.9	2770.8	2743.6	2731.2	2728.7	2691.6
7.5°	2991.2	2981.3	2954.0	2939.2	2914.4	2882.2	2822.8	2780.7	2751.0	2748.5	2696.5
10°	3107.6	3097.7	3065.5	3038.2	3003.6	2951.6	2874.8	2812.9	2765.9	2760.9	2699.0
12.5°	3246.2	3236.3	3196.7	3162.0	3110.0	3040.7	2939.2	2855.0	2790.6	2783.2	2706.4
15°	3392.3	3377.5	3337.8	3298.2	3233.8	3144.7	3023.4	2911.9	2830.2	2817.9	2728.7
17.5°	3513.6	3493.8	3461.6	3422.0	3350.2	3246.2	3107.6	2968.9	2867.4	2857.5	2751.0
20°	3617.6	3602.8	3568.1	3531.0	3454.2	3340.3	3186.8	3025.8	2902.0	2889.7	2768.3
22.5°	3716.7	3696.9	3677.1	3649.8	3565.6	3439.4	3278.4	3095.2	2946.6	2931.8	2790.6
25°	3830.6	3808.3	3800.9	3786.0	3687.0	3558.2	3389.8	3181.8	3008.5	2991.2	2830.2
27.5°	3971.7	3947.0	3932.1	3932.1	3813.3	3679.5	3508.7	3283.4	3080.3	3065.5	2879.8
30°	4120.3	4090.6	4068.3	4068.3	3934.6	3800.9	3625.1	3384.9	3162.0	3144.7	2944.1
32.5°	4251.5	4221.8	4197.1	4194.6	4055.9	3922.2	3746.4	3496.3	3261.1	3238.8	3023.4
35°	4353.1	4325.8	4303.5	4308.5	4177.3	4046.0	3882.6	3644.9	3384.9	3360.1	3127.4
37.5°	4415.0	4405.1	4392.7	4410.0	4288.7	4164.9	4023.7	3788.5	3526.0	3503.7	3256.1
40°	4447.2	4439.7	4489.2	4511.5	4382.8	4271.3	4164.9	3937.1	3679.5	3654.8	3404.7
42.5°	4494.2	4556.1	4575.9	4571.0	4452.1	4353.1	4293.6	4098.0	3860.3	3838.0	3583.0
45°	4325.8	4311.0	4419.9	4479.3	4457.1	4405.1	4415.0	4291.2	4070.8	4048.5	3788.5
47.5°	4100.5	4080.7	4142.6	4288.7	4375.3	4424.9	4523.9	4491.7	4313.4	4293.6	4028.7
50°	3625.1	3652.3	3882.6	4078.2	4249.1	4419.9	4615.5	4707.1	4580.9	4561.1	4286.2
52.5°	3097.7	3124.9	3365.1	3815.7	4095.5	4382.8	4682.4	4922.6	4870.6	4848.3	4561.1
55°	2713.9	2773.3	3045.7	3372.5	3877.6	4266.4	4722.0	5143.0	5182.6	5162.8	4860.7
57.5°	2332.5	2377.1	2582.6	2872.3	3580.5	4063.4	4719.5	5348.5	5509.4	5489.6	5165.2
60°	1884.3	1941.3	2104.7	2416.7	3184.3	3820.7	4650.2	5509.4	5823.9	5809.0	5459.9
62.5°	1577.3	1594.6	1711.0	1980.9	2674.2	3513.6	4494.2	5596.1	6108.6	6098.7	5724.8
65°	1270.3	1272.7	1379.2	1604.5	2181.5	3132.3	4229.3	5563.9	6324.1	6329.0	5915.5
67.5°	980.6	992.9	1089.5	1260.4	1733.3	2637.1	3850.4	5346.0	6326.5	6338.9	5806.6
70°	678.5	688.4	834.5	1000.4	1339.6	2102.2	3337.8	4769.1	5806.6	5816.5	5204.9
72.5°	477.9	482.8	638.8	799.8	1047.4	1584.7	2518.2	3944.5	4949.8	4957.2	4377.8
75°	356.6	361.5	450.7	606.7	802.3	1096.9	1720.9	3020.9	3954.4	3954.4	3456.7
77.5°	252.6	255.0	292.2	418.5	534.8	740.4	1035.0	1978.4	2902.0	2907.0	2518.2
80°	170.9	173.3	190.7	282.3	334.3	401.1	562.1	1037.5	1829.9	1837.3	1599.6
82.5°	89.1	94.1	106.5	143.6	168.4	222.9	289.7	527.4	1012.7	1032.6	960.7
85°	34.7	34.7	39.6	47.0	61.9	86.7	133.7	200.6	458.1	472.9	423.4
87.5°	12.4	12.4	14.9	14.9	17.3	19.8	22.3	29.7	52.0	52.0	49.5
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: P799301

CATALOG NUMBER: ARCH2-100-750-U-T2U

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2694.0	2694.0	2694.0	2694.0	2694.0	2694.0	2694.0	2694.0	2694.0	2694.0	2694.0
2.5°	2669.3	2669.3	2656.9	2661.9	2659.4	2654.4	2649.5	2656.9	2649.5	2632.1	2629.7
5°	2674.2	2669.3	2649.5	2647.0	2639.6	2629.7	2617.3	2622.2	2609.9	2595.0	2592.5
7.5°	2676.7	2666.8	2639.6	2629.7	2614.8	2595.0	2575.2	2575.2	2557.9	2543.0	2540.5
10°	2671.8	2659.4	2622.2	2602.4	2575.2	2545.5	2518.2	2510.8	2491.0	2473.7	2473.7
12.5°	2674.2	2656.9	2609.9	2577.7	2540.5	2503.4	2468.7	2458.8	2441.5	2424.1	2421.7
15°	2689.1	2664.3	2604.9	2562.8	2508.3	2466.2	2429.1	2421.7	2406.8	2394.4	2394.4
17.5°	2703.9	2671.8	2597.5	2538.0	2471.2	2424.1	2389.5	2389.5	2379.6	2372.1	2372.1
20°	2711.4	2674.2	2582.6	2503.4	2426.6	2377.1	2344.9	2349.9	2347.4	2344.9	2344.9
22.5°	2728.7	2679.2	2570.2	2471.2	2379.6	2327.6	2297.9	2305.3	2302.8	2302.8	2305.3
25°	2755.9	2691.6	2560.3	2441.5	2335.0	2278.1	2245.9	2250.8	2250.8	2250.8	2250.8
27.5°	2793.1	2716.3	2557.9	2414.2	2290.4	2226.1	2186.4	2186.4	2176.5	2179.0	2181.5
30°	2850.0	2763.4	2562.8	2389.5	2243.4	2161.7	2114.6	2107.2	2104.7	2109.7	2112.2
32.5°	2919.4	2827.8	2592.5	2372.1	2193.9	2089.9	2030.4	2028.0	2020.5	2020.5	2020.5
35°	3006.0	2889.7	2619.8	2369.7	2144.3	2013.1	1948.7	1941.3	1924.0	1916.5	1916.5
37.5°	3117.5	2986.2	2652.0	2352.3	2102.2	1938.8	1862.1	1837.3	1817.5	1815.0	1815.0
40°	3253.7	3095.2	2699.0	2332.5	2057.7	1862.1	1760.5	1718.4	1720.9	1730.8	1730.8
42.5°	3414.6	3228.9	2758.4	2322.6	1993.3	1782.8	1641.7	1592.2	1609.5	1619.4	1621.9
45°	3602.8	3387.4	2825.3	2310.2	1933.9	1693.7	1515.4	1453.5	1460.9	1463.4	1465.9
47.5°	3820.7	3563.2	2894.6	2300.3	1867.0	1582.3	1376.7	1295.0	1292.5	1277.7	1282.6
50°	4048.5	3748.9	2966.4	2283.0	1785.3	1451.0	1230.6	1134.1	1114.3	1092.0	1094.5
52.5°	4291.2	3939.5	3033.3	2255.8	1683.8	1317.3	1092.0	988.0	948.4	923.6	928.6
55°	4558.6	4135.2	3097.7	2213.7	1577.3	1183.6	968.2	861.7	812.2	792.4	794.8
57.5°	4803.7	4323.3	3144.7	2161.7	1460.9	1062.3	859.2	755.2	723.0	720.6	723.0
60°	5041.4	4481.8	3164.5	2089.9	1342.1	950.8	757.7	678.5	656.2	668.6	671.0
62.5°	5242.0	4583.3	3154.6	1993.3	1220.7	844.4	676.0	619.0	604.2	628.9	631.4
65°	5358.4	4615.5	3085.3	1854.6	1089.5	740.4	599.2	537.3	529.9	544.8	552.2
67.5°	5204.9	4415.0	2897.1	1664.0	943.4	643.8	524.9	475.4	463.0	475.4	475.4
70°	4613.1	3825.6	2451.4	1361.9	782.5	549.7	455.6	420.9	411.0	420.9	418.5
72.5°	3843.0	3181.8	1931.4	1062.3	616.6	463.0	396.2	364.0	354.1	344.2	339.2
75°	2981.3	2416.7	1401.5	780.0	465.5	371.4	331.8	302.1	277.3	287.2	282.3
77.5°	2184.0	1696.2	992.9	539.8	334.3	287.2	260.0	237.7	220.4	240.2	237.7
80°	1406.4	1096.9	663.6	361.5	230.3	200.6	190.7	178.3	195.6	255.0	260.0
82.5°	859.2	695.8	396.2	235.2	151.0	133.7	123.8	123.8	200.6	220.4	222.9
85°	383.8	368.9	215.4	121.3	84.2	76.8	69.3	89.1	81.7	59.4	61.9
87.5°	61.9	64.4	47.0	42.1	32.2	32.2	24.8	17.3	12.4	7.4	7.4
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)