

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: P836091

Luminaire Tested: **ARCH3-140-722-U-T2R**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836091
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-329-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-140-722-U-T2R
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2200K, 1110mA LIGHTSQUARE WITH 40 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18005 lumens
Efficiency: N/A
Efficacy: 126.4 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): 142.5
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

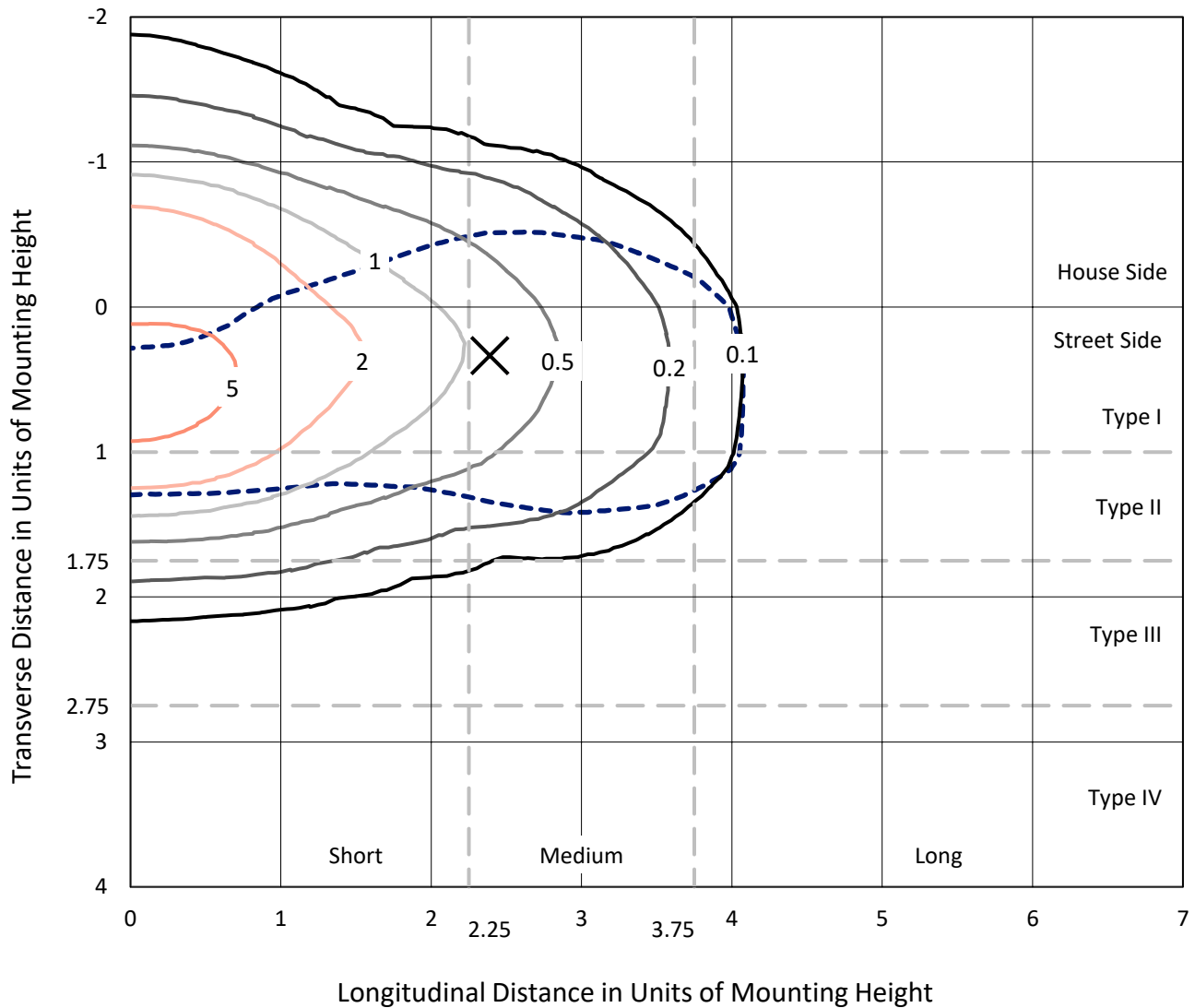


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

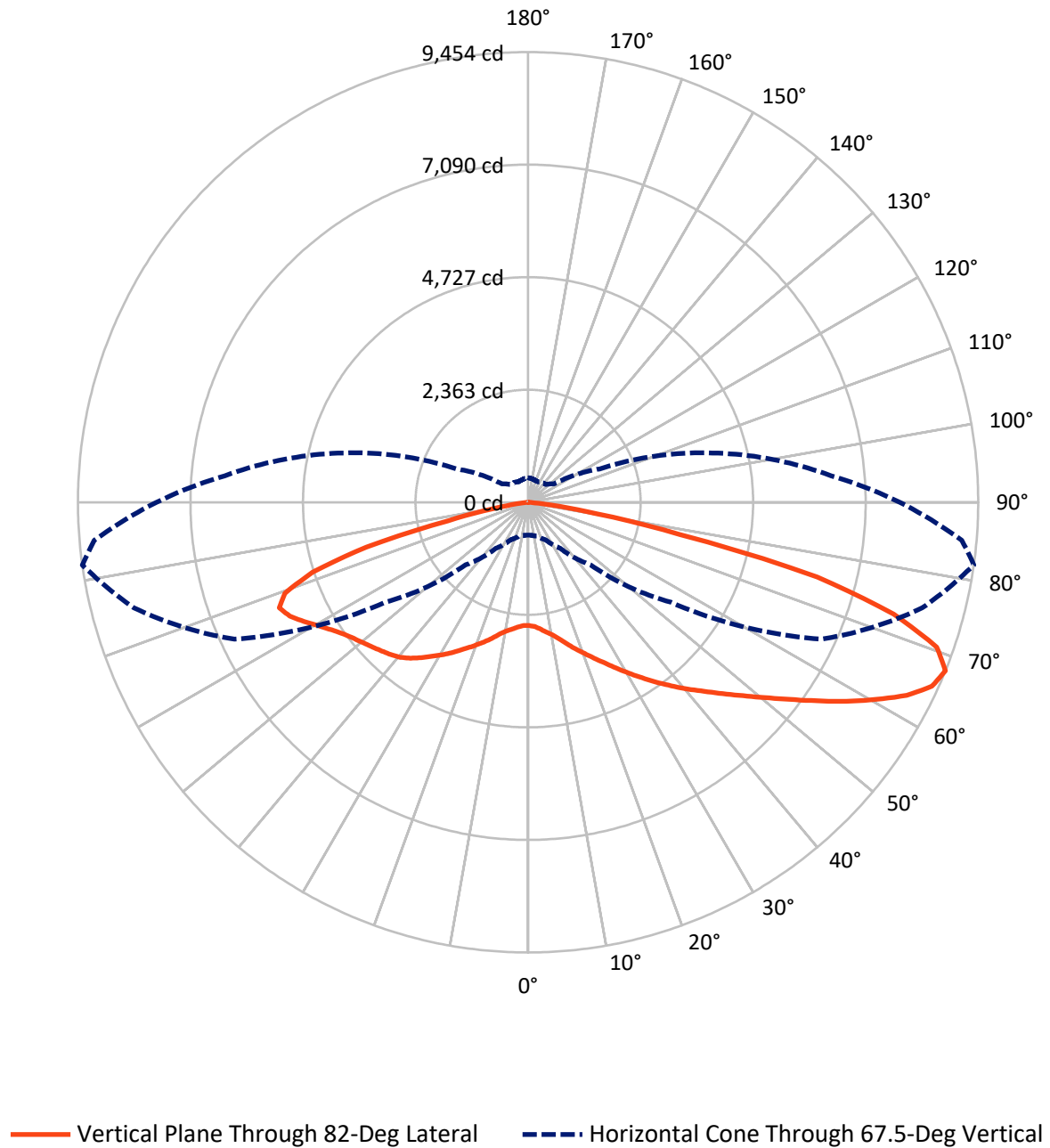


Based on 25 foot mounting height. Maximum calculated value = 7.9 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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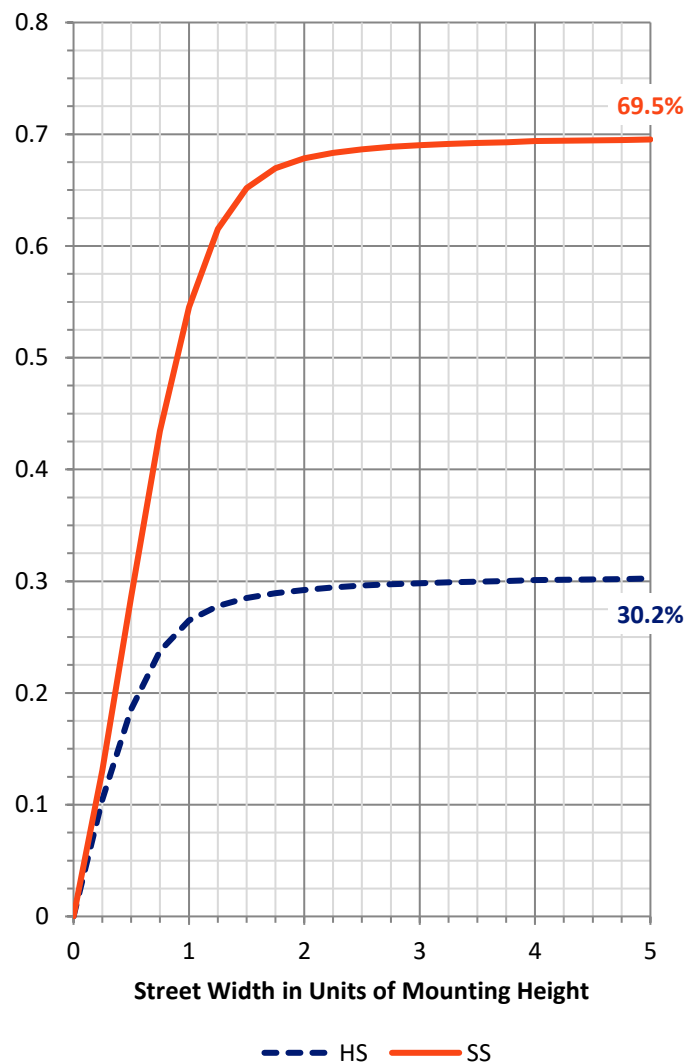
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5483.3	0.0	5483.3
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	12521.7	0.0	12521.7
	% Fixture	69.5	0.0	69.5
Total	Lumens	18005.0	0.0	18005.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	267.5	1.5
10°-20°	963.5	5.4
20°-30°	1936.4	10.8
30°-40°	3041.7	16.9
40°-50°	3705.4	20.6
50°-60°	3501.2	19.4
60°-70°	2891.2	16.1
70°-80°	1574.4	8.7
80°-90°	123.8	0.7
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°	18005.0	100.0
0°-180°	18005.0	100.0

Coefficient of Utilization



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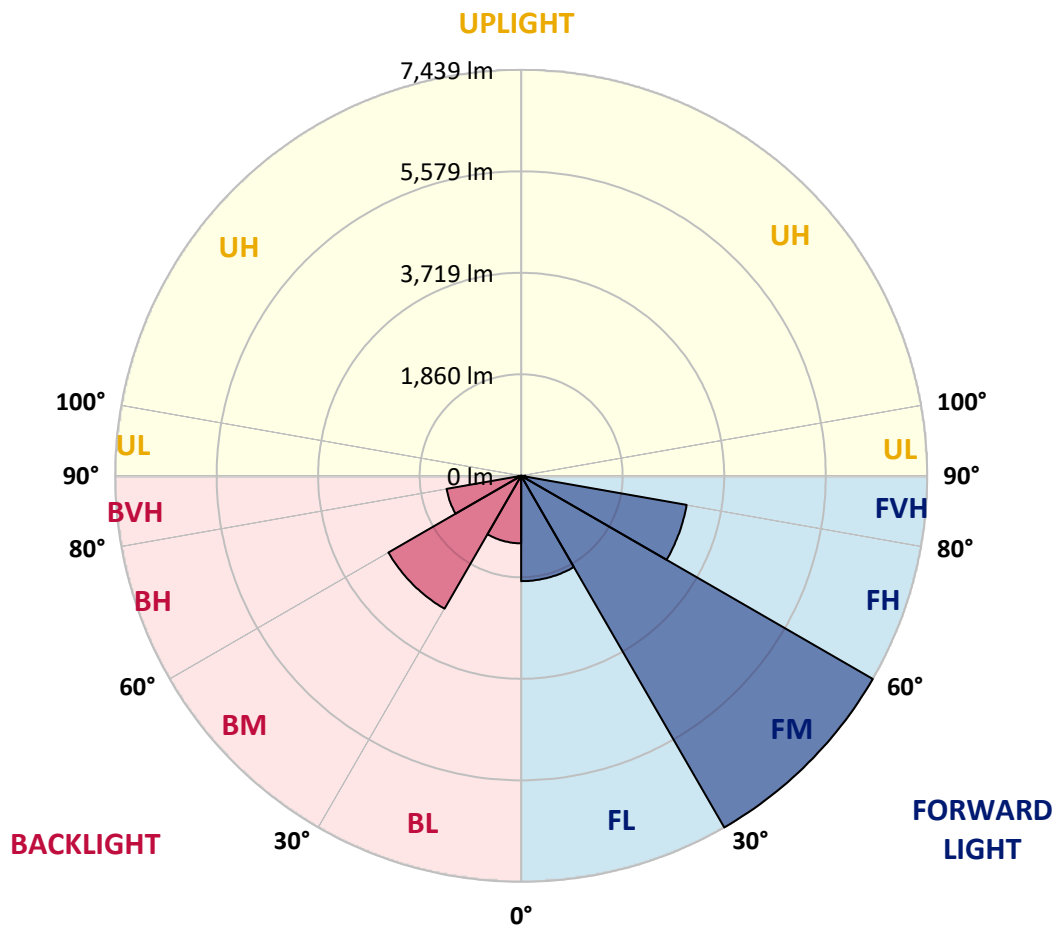
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1930.8	10.7			
FM	(30°-60°)	7438.6	41.3			
FH	(60°-80°)	3077.7	17.1			G2/5000
FVH	(80°-90°)	74.6	0.4			G1/100
BL	(0°-30°)	1236.5	6.9	B3/2500		
BM	(30°-60°)	2809.7	15.6	B3/5000		
BH	(60°-80°)	1387.8	7.7	B3/2500		G3/2500
BVH	(80°-90°)	49.2	0.3			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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	2588.2	2588.2	2588.2	2588.2	2588.2	2588.2	2588.2	2588.2	2588.2	2588.2	2588.2
2.5°	2705.9	2705.9	2726.8	2726.8	2708.5	2679.7	2671.9	2640.5	2611.7	2611.7	2614.4
5°	2964.7	2962.1	2977.7	2956.8	2912.4	2854.9	2815.7	2747.7	2690.2	2671.9	2669.3
7.5°	3281.0	3278.4	3286.2	3252.3	3168.6	3074.5	2996.0	2886.2	2792.1	2752.9	2742.5
10°	3634.0	3631.3	3623.5	3566.0	3453.6	3307.2	3189.5	3037.9	2896.7	2834.0	2820.9
12.5°	4039.2	4033.9	4015.6	3932.0	3777.7	3589.5	3419.6	3223.5	3035.3	2949.0	2920.2
15°	4491.5	4483.6	4449.6	4347.7	4141.1	3903.2	3683.6	3432.6	3202.6	3090.2	3050.9
17.5°	4967.3	4967.3	4915.0	4763.4	4533.3	4237.9	3966.0	3647.0	3377.7	3239.2	3192.1
20°	5450.9	5448.3	5383.0	5199.9	4928.1	4588.2	4243.1	3892.8	3558.1	3390.8	3333.3
22.5°	5960.7	5955.5	5874.5	5665.3	5341.1	4956.8	4554.2	4135.9	3756.8	3555.5	3482.3
25°	6546.3	6538.5	6439.2	6182.9	5798.6	5364.7	4904.5	4420.9	3984.3	3738.5	3652.3
27.5°	7168.6	7158.1	7040.5	6742.4	6321.5	5798.6	5291.5	4750.3	4235.3	3942.4	3845.7
30°	7722.8	7715.0	7586.9	7281.0	6797.3	6230.0	5660.1	5079.7	4499.3	4159.4	4039.2
32.5°	8141.1	8141.1	8026.1	7725.4	7223.5	6643.1	6031.3	5390.8	4773.8	4392.1	4250.9
35°	8394.7	8402.5	8303.2	8062.7	7589.5	7032.6	6415.6	5756.8	5066.6	4640.5	4488.8
37.5°	8431.3	8457.4	8399.9	8237.8	7843.1	7356.8	6792.1	6109.7	5369.9	4891.5	4721.5
40°	8261.4	8279.7	8282.3	8219.5	7947.6	7589.5	7124.1	6483.6	5691.4	5155.5	4959.4
42.5°	7921.5	7934.6	7958.1	7976.4	7871.8	7691.4	7377.7	6831.3	6033.9	5424.8	5194.7
45°	7482.3	7479.7	7518.9	7597.3	7592.1	7633.9	7518.9	7147.6	6389.5	5730.7	5456.2
47.5°	6826.1	6813.0	6951.6	7129.3	7218.2	7414.3	7521.5	7396.0	6776.4	6067.9	5754.2
50°	5798.6	5785.6	6088.8	6507.1	6768.6	7066.6	7377.7	7545.0	7181.6	6447.0	6078.4
52.5°	4549.0	4535.9	4920.2	5652.2	6222.2	6656.1	7087.5	7579.0	7565.9	6870.5	6444.4
55°	3383.0	3372.5	3746.4	4538.5	5461.4	6180.3	6732.0	7490.1	7926.7	7356.8	6888.8
57.5°	2384.3	2379.1	2703.2	3359.4	4483.6	5599.9	6389.5	7317.6	8258.7	7884.9	7390.8
60°	1673.2	1665.3	1900.6	2407.8	3390.8	4724.1	6049.6	7087.5	8507.1	8405.1	7924.1
62.5°	1126.8	1121.6	1288.9	1712.4	2407.8	3636.6	5534.6	6933.3	8648.3	8928.0	8462.7
65°	854.9	852.3	928.1	1160.8	1704.6	2611.7	4716.3	6915.0	8666.6	9320.2	8920.2
67.5°	690.2	692.8	734.6	868.0	1179.1	1856.2	3657.5	6799.9	8569.8	9453.5	9142.4
70°	564.7	564.7	583.0	671.9	870.6	1252.3	2554.2	6277.1	8300.6	9105.8	8878.3
72.5°	431.4	434.0	491.5	543.8	656.2	878.4	1636.6	5194.7	7665.3	8028.7	7856.1
75°	342.5	339.9	373.9	447.1	509.8	627.4	1003.9	3725.5	6522.8	6274.4	6164.6
77.5°	245.7	243.1	269.3	332.0	386.9	444.4	598.7	1879.7	3547.7	3260.1	3179.1
80°	167.3	162.1	185.6	230.1	256.2	261.4	292.8	721.6	1547.7	1458.8	1440.5
82.5°	86.3	86.3	99.3	130.7	133.3	135.9	130.7	232.7	512.4	478.4	457.5
85°	34.0	34.0	36.6	44.4	44.4	47.1	47.1	60.1	54.9	52.3	49.7
87.5°	2.6	2.6	5.2	5.2	7.8	7.8	7.8	10.5	13.1	13.1	13.1
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°	2588.2	2588.2	2588.2	2588.2	2588.2	2588.2	2588.2	2588.2	2588.2	2588.2	2588.2
2.5°	2609.1	2598.7	2564.7	2556.8	2551.6	2543.8	2546.4	2528.1	2520.2	2522.9	2512.4
5°	2656.2	2637.9	2596.1	2577.8	2572.5	2564.7	2572.5	2559.5	2546.4	2551.6	2546.4
7.5°	2721.5	2695.4	2643.1	2624.8	2622.2	2614.4	2624.8	2614.4	2603.9	2609.1	2598.7
10°	2789.5	2755.5	2698.0	2679.7	2679.7	2677.1	2687.6	2671.9	2661.4	2664.0	2658.8
12.5°	2888.9	2844.4	2781.7	2766.0	2758.1	2766.0	2768.6	2747.7	2729.4	2732.0	2724.2
15°	3009.1	2959.4	2891.5	2867.9	2862.7	2860.1	2849.6	2823.5	2800.0	2797.4	2789.5
17.5°	3139.8	3077.1	2996.0	2972.5	2949.0	2941.1	2915.0	2881.0	2844.4	2844.4	2834.0
20°	3265.3	3194.7	3098.0	3064.0	3030.0	2998.7	2954.2	2899.3	2852.3	2844.4	2834.0
22.5°	3401.3	3317.6	3205.2	3155.5	3095.4	3032.6	2956.8	2883.6	2823.5	2810.4	2802.6
25°	3552.9	3448.3	3315.0	3241.8	3145.1	3048.3	2935.9	2841.8	2771.2	2750.3	2745.1
27.5°	3720.2	3594.7	3432.6	3325.5	3184.3	3032.6	2888.9	2776.4	2690.2	2664.0	2656.2
30°	3890.2	3741.1	3539.8	3383.0	3184.3	2983.0	2802.6	2671.9	2572.5	2535.9	2530.7
32.5°	4060.1	3892.8	3636.6	3414.3	3152.9	2899.3	2690.2	2535.9	2423.5	2379.1	2389.5
35°	4264.0	4060.1	3725.5	3427.4	3100.6	2797.4	2562.1	2381.7	2266.6	2227.4	2235.3
37.5°	4475.8	4227.4	3796.0	3417.0	3027.4	2682.3	2418.3	2243.1	2099.3	2031.4	2039.2
40°	4658.8	4379.0	3845.7	3380.4	2933.3	2551.6	2277.1	2047.0	1848.3	1783.0	1775.1
42.5°	4831.3	4491.5	3871.9	3325.5	2826.1	2400.0	2075.8	1780.4	1581.7	1500.6	1503.3
45°	5011.7	4601.3	3861.4	3252.3	2692.8	2222.2	1817.0	1518.9	1343.8	1270.6	1273.2
47.5°	5218.2	4718.9	3850.9	3173.8	2530.7	1992.1	1568.6	1288.9	1137.2	1085.0	1079.7
50°	5437.9	4849.6	3837.9	3077.1	2350.3	1735.9	1322.9	1074.5	946.4	912.4	904.6
52.5°	5686.2	4990.8	3830.0	2962.1	2133.3	1464.0	1103.3	886.3	800.0	776.5	773.8
55°	5984.3	5155.5	3840.5	2823.5	1871.9	1207.8	917.6	763.4	705.9	692.8	690.2
57.5°	6347.6	5367.3	3871.9	2661.4	1597.4	985.6	781.7	687.6	651.0	640.5	640.5
60°	6742.4	5607.8	3929.4	2478.4	1322.9	813.1	692.8	627.4	611.8	624.8	624.8
62.5°	7168.6	5890.1	4031.3	2256.2	1066.7	687.6	622.2	577.8	567.3	593.5	596.1
65°	7563.3	6164.6	4096.7	1989.5	847.1	596.1	567.3	528.1	533.3	559.5	556.9
67.5°	7806.5	6392.1	4005.2	1654.9	671.9	528.1	509.8	475.8	488.9	509.8	512.4
70°	7657.4	6264.0	3552.9	1249.7	525.5	460.1	447.1	426.1	436.6	462.7	473.2
72.5°	6928.0	5610.4	2763.4	844.4	423.5	386.9	392.2	381.7	394.8	418.3	441.8
75°	5623.5	4240.5	1853.6	541.2	334.6	329.4	337.3	329.4	334.6	358.2	371.2
77.5°	2935.9	2068.0	922.9	337.3	248.4	256.2	269.3	271.9	287.6	292.8	298.0
80°	1369.9	930.7	384.3	188.2	164.7	180.4	206.5	209.1	214.4	222.2	224.8
82.5°	447.1	279.7	177.8	102.0	94.1	102.0	133.3	159.5	162.1	177.8	177.8
85°	47.1	28.8	39.2	41.8	36.6	44.4	60.1	57.5	26.1	15.7	15.7
87.5°	13.1	10.5	13.1	13.1	10.5	10.5	7.8	2.6	0.0	0.0	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)