

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: P835956

Luminaire Tested: **ARCH3-120-727-U-T2R**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P835956
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: ARCH3-120-727-U-T2R
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 965mA LIGHTSQUARE WITH 40 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17793 lumens
Efficiency: N/A
Efficacy: 145.0 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

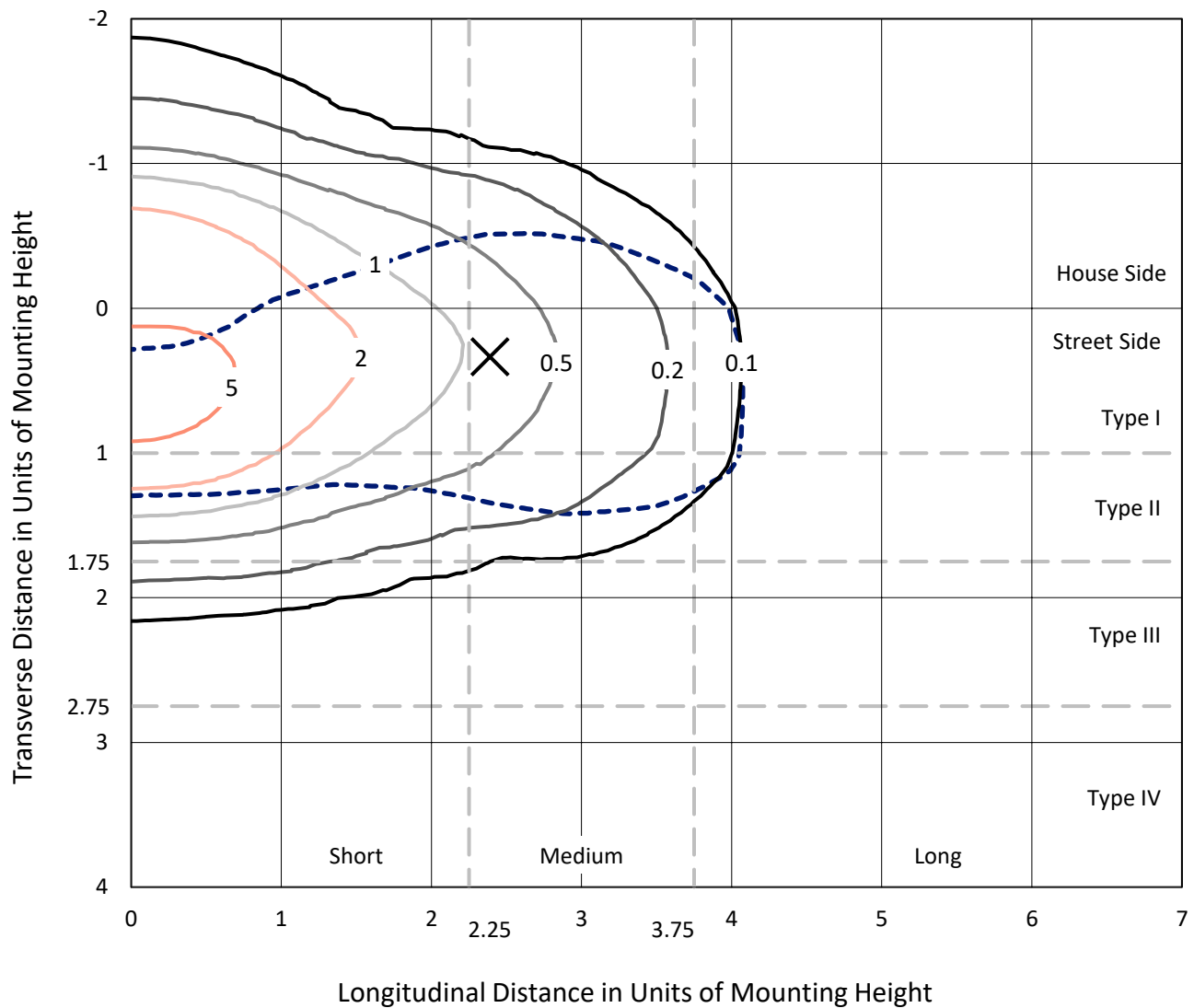


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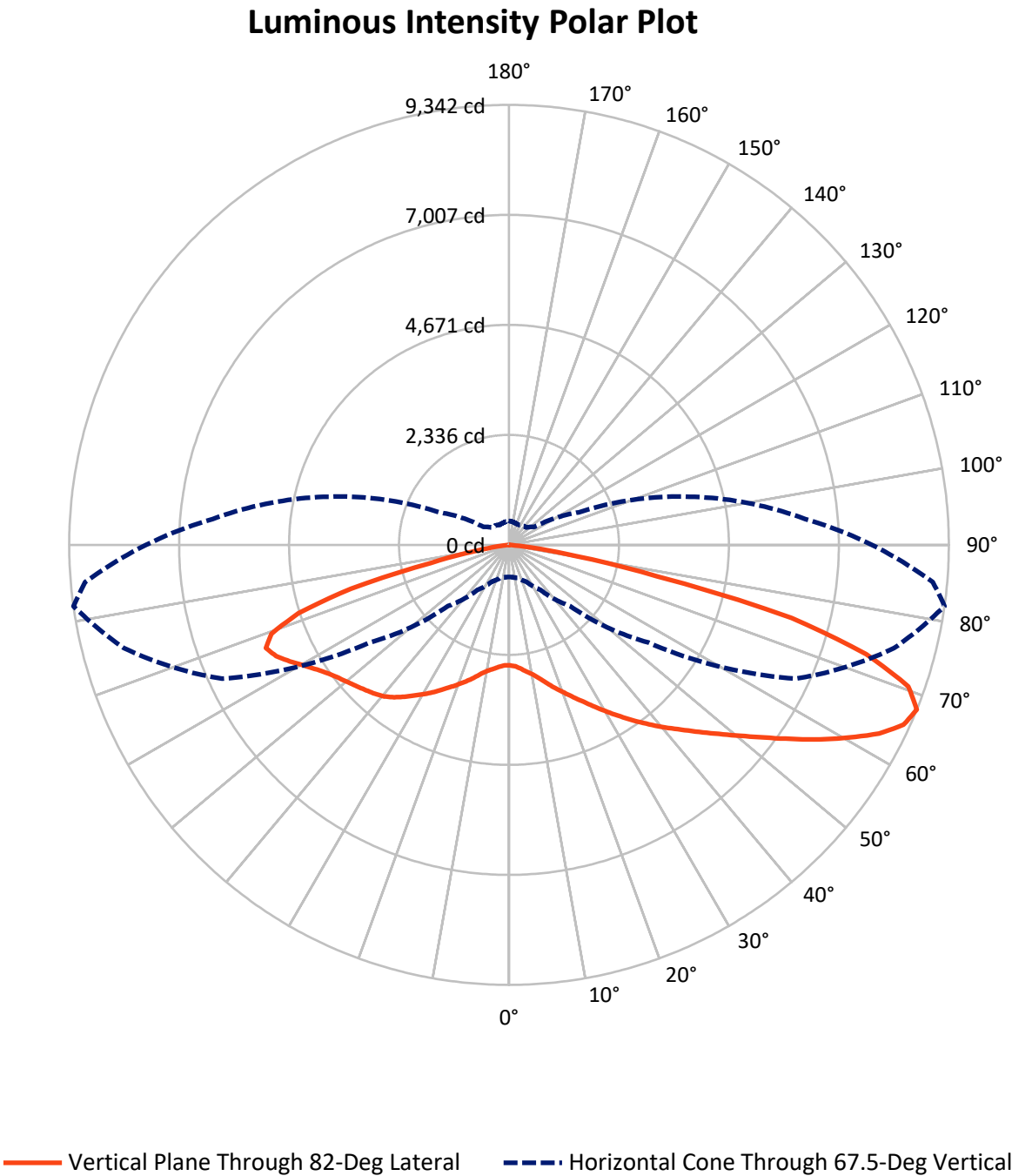
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 fc
Type II - Medium - N/A

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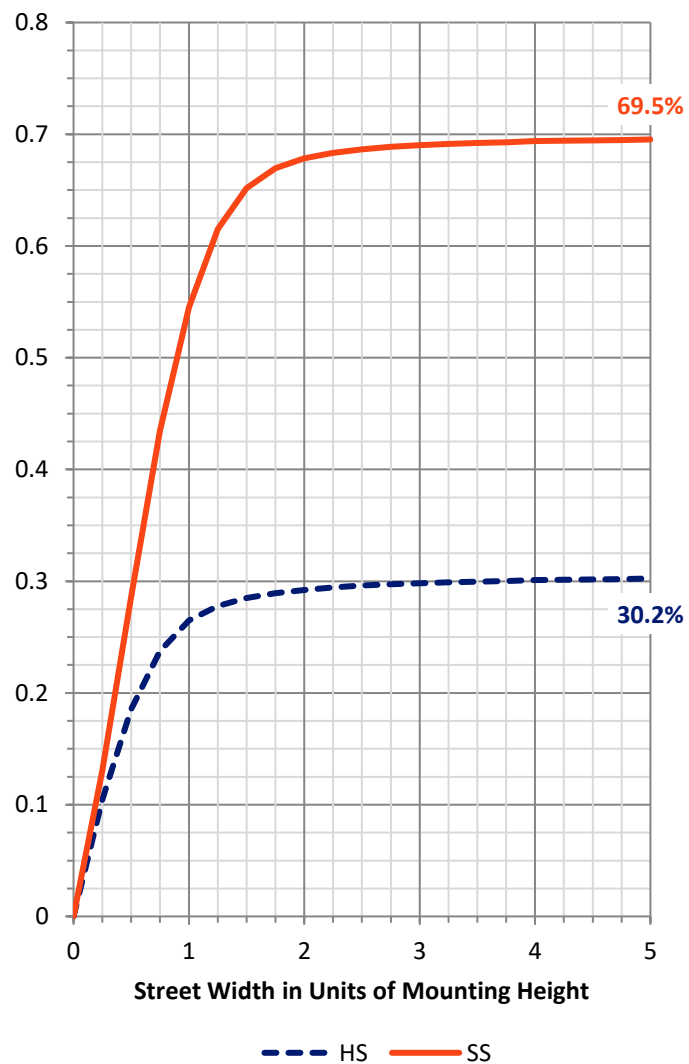
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5418.7	0.0	5418.7
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	12374.3	0.0	12374.3
	% Fixture	69.5	0.0	69.5
Total	Lumens	17793.0	0.0	17793.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	264.3	1.5
10°-20°	952.1	5.4
20°-30°	1913.6	10.8
30°-40°	3005.9	16.9
40°-50°	3661.8	20.6
50°-60°	3460.0	19.4
60°-70°	2857.1	16.1
70°-80°	1555.8	8.7
80°-90°	122.3	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°	17793.0	100.0
0°-180°	17793.0	100.0

Coefficient of Utilization



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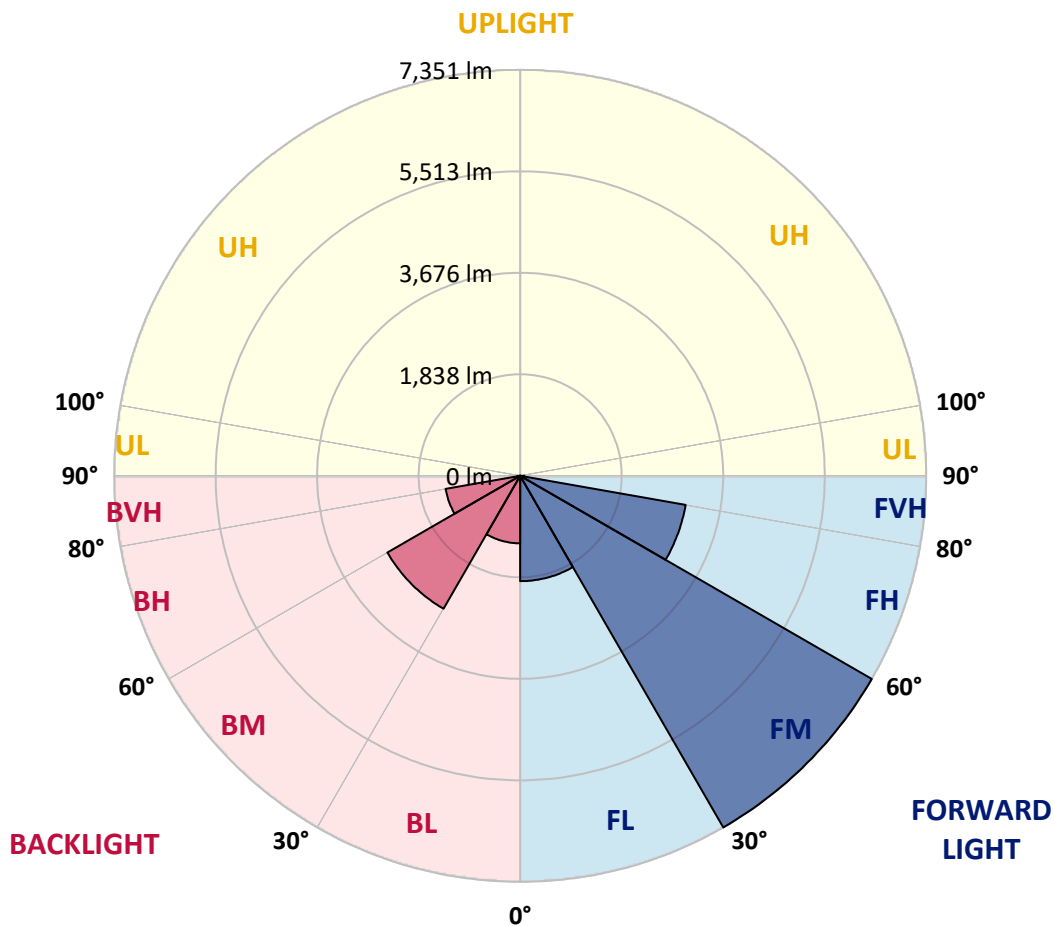
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1908.1	10.7			
FM	(30°-60°)	7351.0	41.3			
FH	(60°-80°)	3041.5	17.1			G2/5000
FVH	(80°-90°)	73.7	0.4			G1/100
BL	(0°-30°)	1222.0	6.9	B3/2500		
BM	(30°-60°)	2776.7	15.6	B3/5000		
BH	(60°-80°)	1371.5	7.7	B3/2500		G3/2500
BVH	(80°-90°)	48.6	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°	2557.7	2557.7	2557.7	2557.7	2557.7	2557.7	2557.7	2557.7	2557.7	2557.7	2557.7
2.5°	2674.0	2674.0	2694.7	2694.7	2676.6	2648.2	2640.4	2609.4	2581.0	2581.0	2583.6
5°	2929.8	2927.2	2942.7	2922.0	2878.1	2821.3	2782.5	2715.3	2658.5	2640.4	2637.8
7.5°	3242.4	3239.8	3247.5	3214.0	3131.3	3038.3	2960.8	2852.3	2759.3	2720.5	2710.2
10°	3591.2	3588.6	3580.8	3524.0	3412.9	3268.2	3152.0	3002.1	2862.6	2800.6	2787.7
12.5°	3991.6	3986.4	3968.4	3885.7	3733.3	3547.2	3379.3	3185.5	2999.5	2914.3	2885.8
15°	4438.6	4430.8	4397.2	4296.5	4092.4	3857.3	3640.3	3392.2	3164.9	3053.8	3015.0
17.5°	4908.8	4908.8	4857.1	4707.3	4479.9	4188.0	3919.3	3604.1	3338.0	3201.0	3154.5
20°	5386.7	5384.2	5319.6	5138.7	4870.0	4534.2	4193.1	3846.9	3516.2	3350.9	3294.1
22.5°	5890.5	5885.4	5805.3	5598.6	5278.2	4898.4	4500.6	4087.2	3712.6	3513.7	3441.3
25°	6469.3	6461.5	6363.3	6110.1	5730.4	5301.5	4846.8	4368.8	3937.4	3694.5	3609.2
27.5°	7084.1	7073.8	6957.6	6663.0	6247.1	5730.4	5229.1	4694.3	4185.4	3896.0	3800.4
30°	7631.9	7624.1	7497.5	7195.2	6717.3	6156.6	5593.4	5019.9	4446.3	4110.5	3991.6
32.5°	8045.2	8045.2	7931.6	7634.5	7138.4	6564.9	5960.3	5327.3	4717.6	4340.4	4200.9
35°	8295.8	8303.6	8205.4	7967.7	7500.1	6949.8	6340.1	5689.0	5007.0	4585.8	4436.0
37.5°	8332.0	8357.8	8301.0	8140.8	7750.7	7270.2	6712.1	6037.8	5306.7	4833.9	4665.9
40°	8164.1	8182.2	8184.8	8122.7	7854.1	7500.1	7040.2	6407.3	5624.4	5094.8	4901.0
42.5°	7828.2	7841.1	7864.4	7882.5	7779.1	7600.9	7290.8	6750.9	5962.9	5360.9	5133.6
45°	7394.2	7391.6	7430.3	7507.9	7502.7	7544.0	7430.3	7063.5	6314.2	5663.2	5391.9
47.5°	6745.7	6732.8	6869.7	7045.4	7133.2	7327.0	7432.9	7308.9	6696.6	5996.5	5686.4
50°	5730.4	5717.4	6017.1	6430.5	6688.9	6983.4	7290.8	7456.2	7097.1	6371.1	6006.8
52.5°	4495.4	4482.5	4862.3	5585.7	6148.9	6577.8	7004.1	7489.8	7476.9	6789.6	6368.5
55°	3343.1	3332.8	3702.3	4485.1	5397.1	6107.6	6652.7	7401.9	7833.4	7270.2	6807.7
57.5°	2356.2	2351.0	2671.4	3319.9	4430.8	5534.0	6314.2	7231.4	8161.5	7792.0	7303.8
60°	1653.5	1645.7	1878.3	2379.5	3350.9	4668.5	5978.4	7004.1	8406.9	8306.2	7830.8
62.5°	1113.5	1108.4	1273.7	1692.2	2379.5	3593.7	5469.4	6851.6	8546.5	8822.9	8363.0
65°	844.8	842.2	917.2	1147.1	1684.5	2581.0	4660.8	6833.5	8564.5	9210.4	8815.1
67.5°	682.1	684.6	726.0	857.7	1165.2	1834.3	3614.4	6719.9	8468.9	9342.2	9034.7
70°	558.1	558.1	576.1	664.0	860.3	1237.5	2524.1	6203.2	8202.8	8998.6	8773.8
72.5°	426.3	428.9	485.7	537.4	648.5	868.1	1617.3	5133.6	7575.0	7934.1	7763.6
75°	338.4	335.9	369.5	441.8	503.8	620.1	992.1	3681.6	6446.0	6200.6	6092.1
77.5°	242.9	240.3	266.1	328.1	382.4	439.2	591.6	1857.6	3505.9	3221.7	3141.6
80°	165.3	160.2	183.4	227.4	253.2	258.4	289.4	713.1	1529.5	1441.6	1423.5
82.5°	85.3	85.3	98.2	129.2	131.8	134.3	129.2	229.9	506.4	472.8	452.1
85°	33.6	33.6	36.2	43.9	43.9	46.5	46.5	59.4	54.3	51.7	49.1
87.5°	2.6	2.6	5.2	5.2	7.8	7.8	7.8	10.3	12.9	12.9	12.9
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°	2557.7	2557.7	2557.7	2557.7	2557.7	2557.7	2557.7	2557.7	2557.7	2557.7	2557.7
2.5°	2578.4	2568.1	2534.5	2526.7	2521.6	2513.8	2516.4	2498.3	2490.6	2493.1	2482.8
5°	2624.9	2606.8	2565.5	2547.4	2542.2	2534.5	2542.2	2529.3	2516.4	2521.6	2516.4
7.5°	2689.5	2663.7	2612.0	2593.9	2591.3	2583.6	2593.9	2583.6	2573.2	2578.4	2568.1
10°	2756.7	2723.1	2666.2	2648.2	2648.2	2645.6	2655.9	2640.4	2630.1	2632.7	2627.5
12.5°	2854.8	2810.9	2748.9	2733.4	2725.7	2733.4	2736.0	2715.3	2697.2	2699.8	2692.1
15°	2973.7	2924.6	2857.4	2834.2	2829.0	2826.4	2816.1	2790.3	2767.0	2764.4	2756.7
17.5°	3102.9	3040.9	2960.8	2937.5	2914.3	2906.5	2880.7	2847.1	2810.9	2810.9	2800.6
20°	3226.9	3157.1	3061.5	3027.9	2994.4	2963.4	2919.4	2865.2	2818.7	2810.9	2800.6
22.5°	3361.2	3278.6	3167.5	3118.4	3058.9	2996.9	2922.0	2849.7	2790.3	2777.3	2769.6
25°	3511.1	3407.7	3276.0	3203.6	3108.0	3012.4	2901.3	2808.3	2738.6	2717.9	2712.7
27.5°	3676.4	3552.4	3392.2	3286.3	3146.8	2996.9	2854.8	2743.8	2658.5	2632.7	2624.9
30°	3844.4	3697.1	3498.2	3343.1	3146.8	2947.9	2769.6	2640.4	2542.2	2506.1	2500.9
32.5°	4012.3	3846.9	3593.7	3374.1	3115.8	2865.2	2658.5	2506.1	2395.0	2351.0	2361.4
35°	4213.8	4012.3	3681.6	3387.1	3064.1	2764.4	2531.9	2353.6	2240.0	2201.2	2209.0
37.5°	4423.1	4177.6	3751.3	3376.7	2991.8	2650.7	2389.8	2216.7	2074.6	2007.4	2015.2
40°	4603.9	4327.5	3800.4	3340.6	2898.8	2521.6	2250.3	2022.9	1826.6	1762.0	1754.2
42.5°	4774.4	4438.6	3826.3	3286.3	2792.8	2371.7	2051.4	1759.4	1563.1	1483.0	1485.6
45°	4952.7	4547.1	3815.9	3214.0	2661.1	2196.0	1795.6	1501.1	1328.0	1255.6	1258.2
47.5°	5156.8	4663.3	3805.6	3136.5	2500.9	1968.7	1550.1	1273.7	1123.9	1072.2	1067.0
50°	5373.8	4792.5	3792.7	3040.9	2322.6	1715.5	1307.3	1061.8	935.3	901.7	893.9
52.5°	5619.3	4932.0	3784.9	2927.2	2108.2	1446.8	1090.3	875.8	790.6	767.3	764.7
55°	5913.8	5094.8	3795.3	2790.3	1849.8	1193.6	906.8	754.4	697.6	684.6	682.1
57.5°	6272.9	5304.1	3826.3	2630.1	1578.6	974.0	772.5	679.5	643.3	633.0	633.0
60°	6663.0	5541.8	3883.1	2449.2	1307.3	803.5	684.6	620.1	604.6	617.5	617.5
62.5°	7084.1	5820.8	3983.9	2229.6	1054.1	679.5	614.9	571.0	560.6	586.5	589.1
65°	7474.3	6092.1	4048.5	1966.1	837.1	589.1	560.6	521.9	527.0	552.9	550.3
67.5°	7714.5	6316.8	3958.0	1635.4	664.0	521.9	503.8	470.2	483.1	503.8	506.4
70°	7567.3	6190.2	3511.1	1234.9	519.3	454.7	441.8	421.1	431.5	457.3	467.6
72.5°	6846.5	5544.3	2730.8	834.5	418.5	382.4	387.5	377.2	390.1	413.4	436.6
75°	5557.3	4190.6	1831.8	534.8	330.7	325.5	333.3	325.5	330.7	353.9	366.9
77.5°	2901.3	2043.6	912.0	333.3	245.4	253.2	266.1	268.7	284.2	289.4	294.5
80°	1353.8	919.8	379.8	186.0	162.8	178.3	204.1	206.7	211.9	219.6	222.2
82.5°	441.8	276.4	175.7	100.8	93.0	100.8	131.8	157.6	160.2	175.7	175.7
85°	46.5	28.4	38.8	41.3	36.2	43.9	59.4	56.8	25.8	15.5	15.5
87.5°	12.9	10.3	12.9	12.9	10.3	10.3	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)