

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: P835812

Luminaire Tested: **ARCH3-100-727-U-T2R**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P835812
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: ARCH3-100-727-U-T2R
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 805mA LIGHTSQUARE WITH 40 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15346 lumens
Efficiency: N/A
Efficacy: 149.6 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): 102.6
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

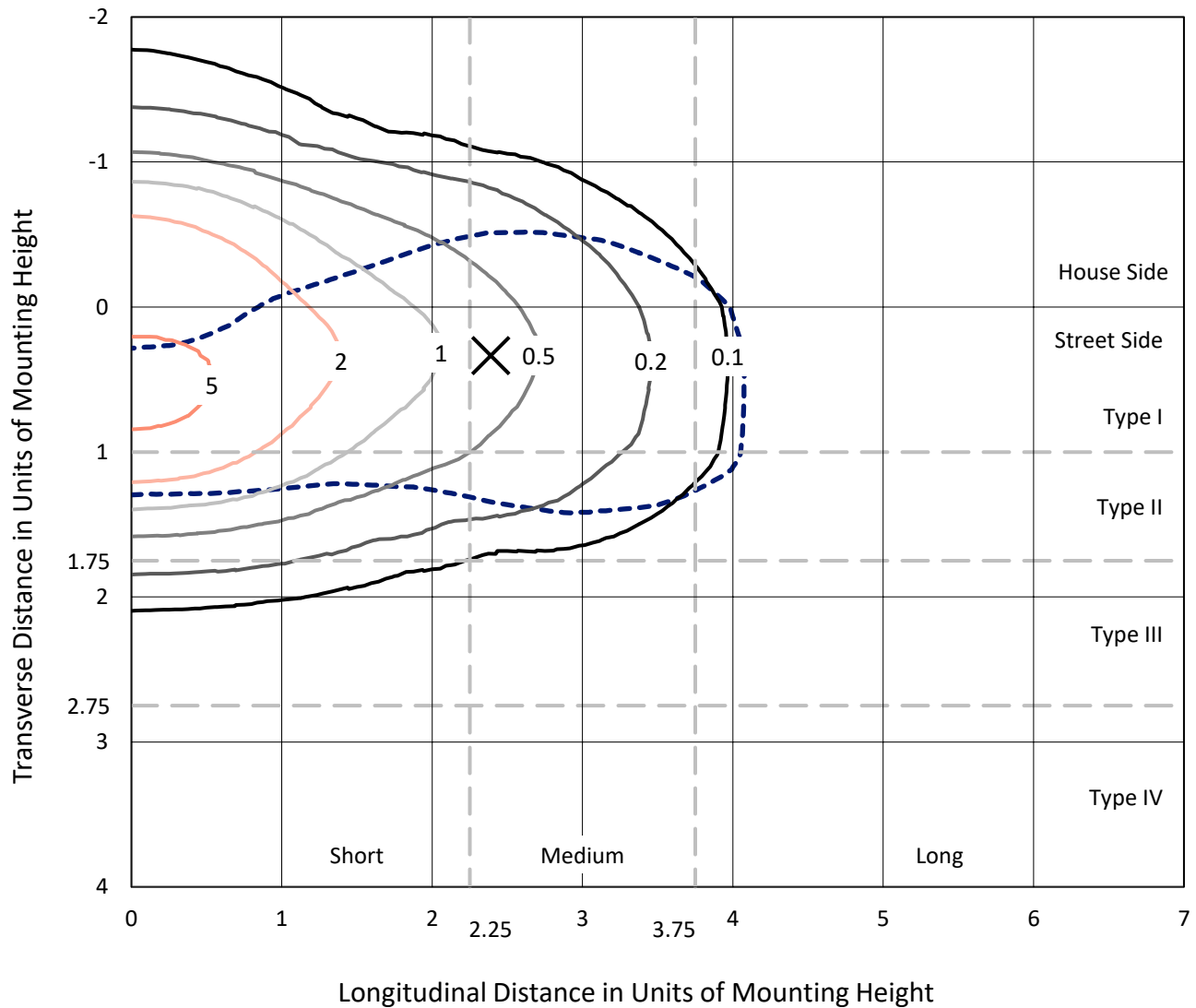


REPORT NUMBER: P835812

CATALOG NUMBER: ARCH3-100-727-U-T2R

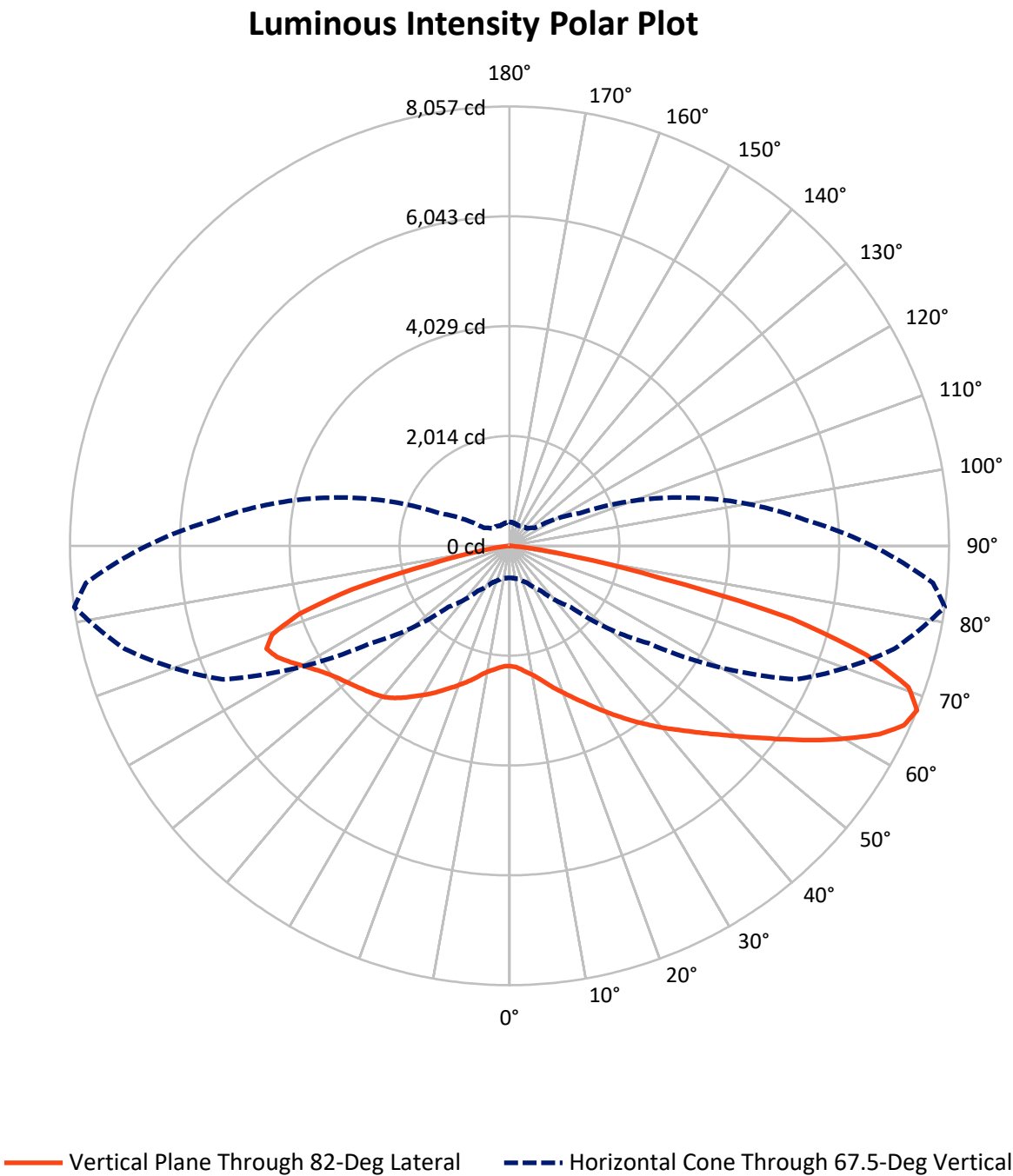
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 fc
Type II - Medium - N/A

REPORT NUMBER: P835812
CATALOG NUMBER: ARCH3-100-727-U-T2R



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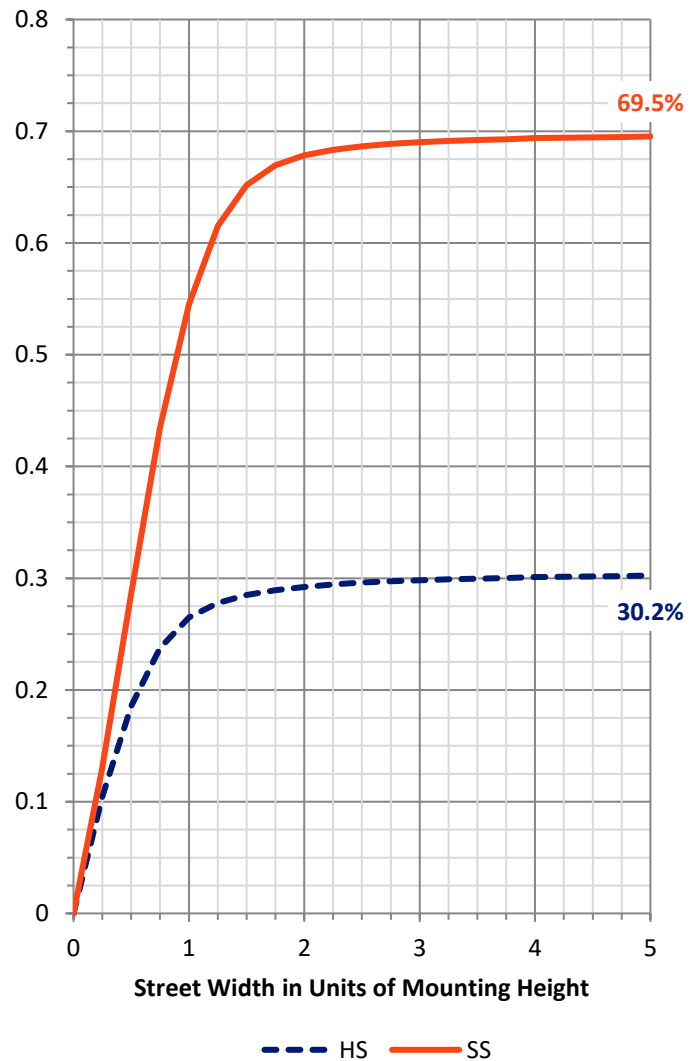
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4673.5	0.0	4673.5
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	10672.5	0.0	10672.5
	% Fixture	69.5	0.0	69.5
Total	Lumens	15346.0	0.0	15346.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	228.0	1.5
10°-20°	821.2	5.4
20°-30°	1650.4	10.8
30°-40°	2592.5	16.9
40°-50°	3158.2	20.6
50°-60°	2984.1	19.4
60°-70°	2464.2	16.1
70°-80°	1341.9	8.7
80°-90°	105.5	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°	15346.0	100.0
0°-180°	15346.0	100.0

Coefficient of Utilization



REPORT NUMBER: P835812

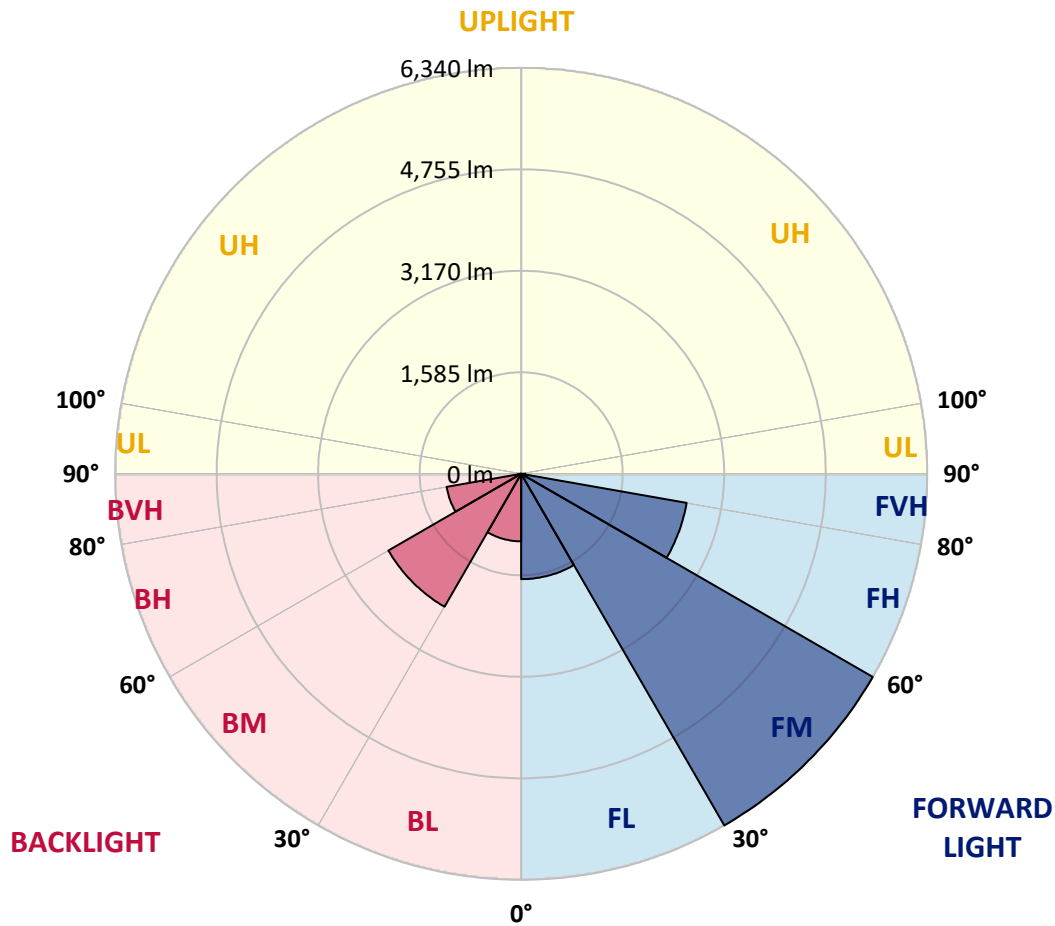
CATALOG NUMBER: ARCH3-100-727-U-T2R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1645.7	10.7			
FM	(30°-60°)	6340.1	41.3			
FH	(60°-80°)	2623.2	17.1			G2/5000
FVH	(80°-90°)	63.6	0.4			G1/100
BL	(0°-30°)	1053.9	6.9	B3/2500		
BM	(30°-60°)	2394.8	15.6	B2/2500		
BH	(60°-80°)	1182.9	7.7	B3/2500		G3/2500
BVH	(80°-90°)	41.9	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



REPORT NUMBER: P835812

CATALOG NUMBER: ARCH3-100-727-U-T2R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	2206.0	2206.0	2206.0	2206.0	2206.0	2206.0	2206.0	2206.0	2206.0	2206.0	2206.0
2.5°	2306.3	2306.3	2324.1	2324.1	2308.5	2284.0	2277.3	2250.5	2226.0	2226.0	2228.3
5°	2526.8	2524.6	2538.0	2520.2	2482.3	2433.3	2399.8	2341.9	2292.9	2277.3	2275.1
7.5°	2796.5	2794.2	2800.9	2772.0	2700.7	2620.4	2553.6	2460.0	2379.8	2346.4	2337.4
10°	3097.3	3095.1	3088.4	3039.3	2943.5	2818.8	2718.5	2589.2	2468.9	2415.4	2404.3
12.5°	3442.7	3438.2	3422.6	3351.3	3219.8	3059.4	2914.6	2747.4	2587.0	2513.5	2489.0
15°	3828.2	3821.5	3792.5	3705.6	3529.6	3326.8	3139.6	2925.7	2729.6	2633.8	2600.4
17.5°	4233.7	4233.7	4189.1	4059.9	3863.8	3612.0	3380.3	3108.4	2878.9	2760.8	2720.7
20°	4645.9	4643.7	4588.0	4432.0	4200.3	3910.6	3616.5	3317.9	3032.7	2890.1	2841.0
22.5°	5080.4	5076.0	5006.9	4828.6	4552.3	4224.8	3881.6	3525.1	3202.0	3030.4	2968.0
25°	5579.6	5572.9	5488.2	5269.8	4942.3	4572.4	4180.2	3768.0	3395.9	3186.4	3112.9
27.5°	6109.9	6101.0	6000.7	5746.7	5387.9	4942.3	4510.0	4048.8	3609.8	3360.2	3277.8
30°	6582.3	6575.6	6466.4	6205.7	5793.5	5309.9	4824.2	4329.5	3834.8	3545.2	3442.7
32.5°	6938.8	6938.8	6840.8	6584.5	6156.7	5662.0	5140.6	4594.7	4068.8	3743.5	3623.2
35°	7154.9	7161.6	7077.0	6872.0	6468.6	5994.0	5468.2	4906.6	4318.4	3955.2	3825.9
37.5°	7186.1	7208.4	7159.4	7021.3	6684.8	6270.3	5789.0	5207.4	4576.9	4169.1	4024.2
40°	7041.3	7056.9	7059.1	7005.7	6773.9	6468.6	6072.0	5526.1	4850.9	4394.1	4227.0
42.5°	6751.6	6762.8	6782.8	6798.4	6709.3	6555.5	6288.2	5822.4	5142.8	4623.6	4427.6
45°	6377.3	6375.1	6408.5	6475.3	6470.9	6506.5	6408.5	6092.1	5445.9	4884.4	4650.4
47.5°	5818.0	5806.9	5924.9	6076.5	6152.2	6319.4	6410.7	6303.8	5775.7	5171.8	4904.4
50°	4942.3	4931.1	5189.6	5546.1	5769.0	6023.0	6288.2	6430.8	6121.0	5494.9	5180.7
52.5°	3877.2	3866.0	4193.6	4817.5	5303.3	5673.2	6040.8	6459.7	6448.6	5855.9	5492.7
55°	2883.4	2874.5	3193.1	3868.3	4654.8	5267.6	5737.8	6384.0	6756.1	6270.3	5871.5
57.5°	2032.2	2027.7	2304.0	2863.3	3821.5	4772.9	5445.9	6236.9	7039.1	6720.4	6299.3
60°	1426.1	1419.4	1619.9	2052.2	2890.1	4026.5	5156.2	6040.8	7250.8	7163.9	6753.9
62.5°	960.4	955.9	1098.5	1459.5	2052.2	3099.5	4717.2	5909.4	7371.1	7609.5	7212.9
65°	728.6	726.4	791.0	989.3	1452.8	2226.0	4019.8	5893.8	7386.7	7943.8	7602.8
67.5°	588.3	590.5	626.1	739.8	1004.9	1582.1	3117.3	5795.7	7304.2	8057.4	7792.2
70°	481.3	481.3	496.9	572.7	742.0	1067.3	2177.0	5350.1	7074.7	7761.0	7567.2
72.5°	367.7	369.9	418.9	463.5	559.3	748.7	1394.9	4427.6	6533.3	6843.0	6695.9
75°	291.9	289.7	318.6	381.0	434.5	534.8	855.7	3175.3	5559.5	5347.8	5254.2
77.5°	209.5	207.2	229.5	283.0	329.8	378.8	510.3	1602.1	3023.8	2778.6	2709.6
80°	142.6	138.2	158.2	196.1	218.4	222.8	249.6	615.0	1319.1	1243.4	1227.8
82.5°	73.5	73.5	84.7	111.4	113.6	115.9	111.4	198.3	436.7	407.8	389.9
85°	29.0	29.0	31.2	37.9	37.9	40.1	40.1	51.3	46.8	44.6	42.3
87.5°	2.2	2.2	4.5	4.5	6.7	6.7	6.7	8.9	11.1	11.1	11.1
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: P835812

CATALOG NUMBER: ARCH3-100-727-U-T2R

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2206.0	2206.0	2206.0	2206.0	2206.0	2206.0	2206.0	2206.0	2206.0	2206.0	2206.0
2.5°	2223.8	2214.9	2185.9	2179.2	2174.8	2168.1	2170.3	2154.7	2148.0	2150.3	2141.4
5°	2263.9	2248.3	2212.7	2197.1	2192.6	2185.9	2192.6	2181.5	2170.3	2174.8	2170.3
7.5°	2319.6	2297.3	2252.8	2237.2	2234.9	2228.3	2237.2	2228.3	2219.3	2223.8	2214.9
10°	2377.6	2348.6	2299.6	2284.0	2284.0	2281.7	2290.7	2277.3	2268.4	2270.6	2266.1
12.5°	2462.2	2424.3	2370.9	2357.5	2350.8	2357.5	2359.7	2341.9	2326.3	2328.5	2321.8
15°	2564.7	2522.4	2464.5	2444.4	2439.9	2437.7	2428.8	2406.5	2386.5	2384.2	2377.6
17.5°	2676.1	2622.7	2553.6	2533.5	2513.5	2506.8	2484.5	2455.5	2424.3	2424.3	2415.4
20°	2783.1	2722.9	2640.5	2611.5	2582.6	2555.8	2517.9	2471.1	2431.0	2424.3	2415.4
22.5°	2899.0	2827.7	2731.8	2689.5	2638.3	2584.8	2520.2	2457.8	2406.5	2395.4	2388.7
25°	3028.2	2939.1	2825.4	2763.0	2680.6	2598.2	2502.3	2422.1	2362.0	2344.1	2339.7
27.5°	3170.8	3063.9	2925.7	2834.3	2714.0	2584.8	2462.2	2366.4	2292.9	2270.6	2263.9
30°	3315.7	3188.6	3017.1	2883.4	2714.0	2542.4	2388.7	2277.3	2192.6	2161.4	2157.0
32.5°	3460.5	3317.9	3099.5	2910.1	2687.3	2471.1	2292.9	2161.4	2065.6	2027.7	2036.6
35°	3634.3	3460.5	3175.3	2921.3	2642.7	2384.2	2183.7	2029.9	1931.9	1898.5	1905.2
37.5°	3814.8	3603.1	3235.4	2912.3	2580.3	2286.2	2061.1	1911.8	1789.3	1731.4	1738.0
40°	3970.8	3732.3	3277.8	2881.1	2500.1	2174.8	1940.8	1744.7	1575.4	1519.7	1513.0
42.5°	4117.8	3828.2	3300.1	2834.3	2408.8	2045.5	1769.2	1517.4	1348.1	1279.0	1281.3
45°	4271.6	3921.7	3291.1	2772.0	2295.1	1894.0	1548.6	1294.6	1145.3	1082.9	1085.2
47.5°	4447.6	4022.0	3282.2	2705.1	2157.0	1697.9	1337.0	1098.5	969.3	924.7	920.3
50°	4634.8	4133.4	3271.1	2622.7	2003.2	1479.6	1127.5	915.8	806.6	777.7	771.0
52.5°	4846.5	4253.8	3264.4	2524.6	1818.3	1247.8	940.3	755.4	681.8	661.8	659.6
55°	5100.5	4394.1	3273.3	2406.5	1595.4	1029.5	782.1	650.7	601.6	590.5	588.3
57.5°	5410.2	4574.6	3300.1	2268.4	1361.5	840.1	666.3	586.0	554.8	545.9	545.9
60°	5746.7	4779.6	3349.1	2112.4	1127.5	693.0	590.5	534.8	521.4	532.6	532.6
62.5°	6109.9	5020.3	3436.0	1923.0	909.1	586.0	530.3	492.4	483.5	505.8	508.0
65°	6446.4	5254.2	3491.7	1695.7	722.0	508.0	483.5	450.1	454.6	476.8	474.6
67.5°	6653.6	5448.1	3413.7	1410.5	572.7	450.1	434.5	405.5	416.7	434.5	436.7
70°	6526.6	5338.9	3028.2	1065.1	447.9	392.2	381.0	363.2	372.1	394.4	403.3
72.5°	5904.9	4781.9	2355.3	719.7	361.0	329.8	334.2	325.3	336.5	356.5	376.6
75°	4793.0	3614.2	1579.8	461.3	285.2	280.8	287.4	280.8	285.2	305.3	316.4
77.5°	2502.3	1762.6	786.6	287.4	211.7	218.4	229.5	231.7	245.1	249.6	254.0
80°	1167.6	793.3	327.6	160.4	140.4	153.8	176.0	178.3	182.7	189.4	191.6
82.5°	381.0	238.4	151.5	86.9	80.2	86.9	113.6	135.9	138.2	151.5	151.5
85°	40.1	24.5	33.4	35.7	31.2	37.9	51.3	49.0	22.3	13.4	13.4
87.5°	11.1	8.9	11.1	11.1	8.9	8.9	6.7	2.2	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)