

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: P836240

Luminaire Tested: **ARCH3-160-722-U-T4W-HSS**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836240
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-27)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-160-722-U-T4W-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2200K, 1245mA LIGHTSQUARE WITH 40 LEDS AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13288 lumens
Efficiency: N/A
Efficacy: 82.5 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 161
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

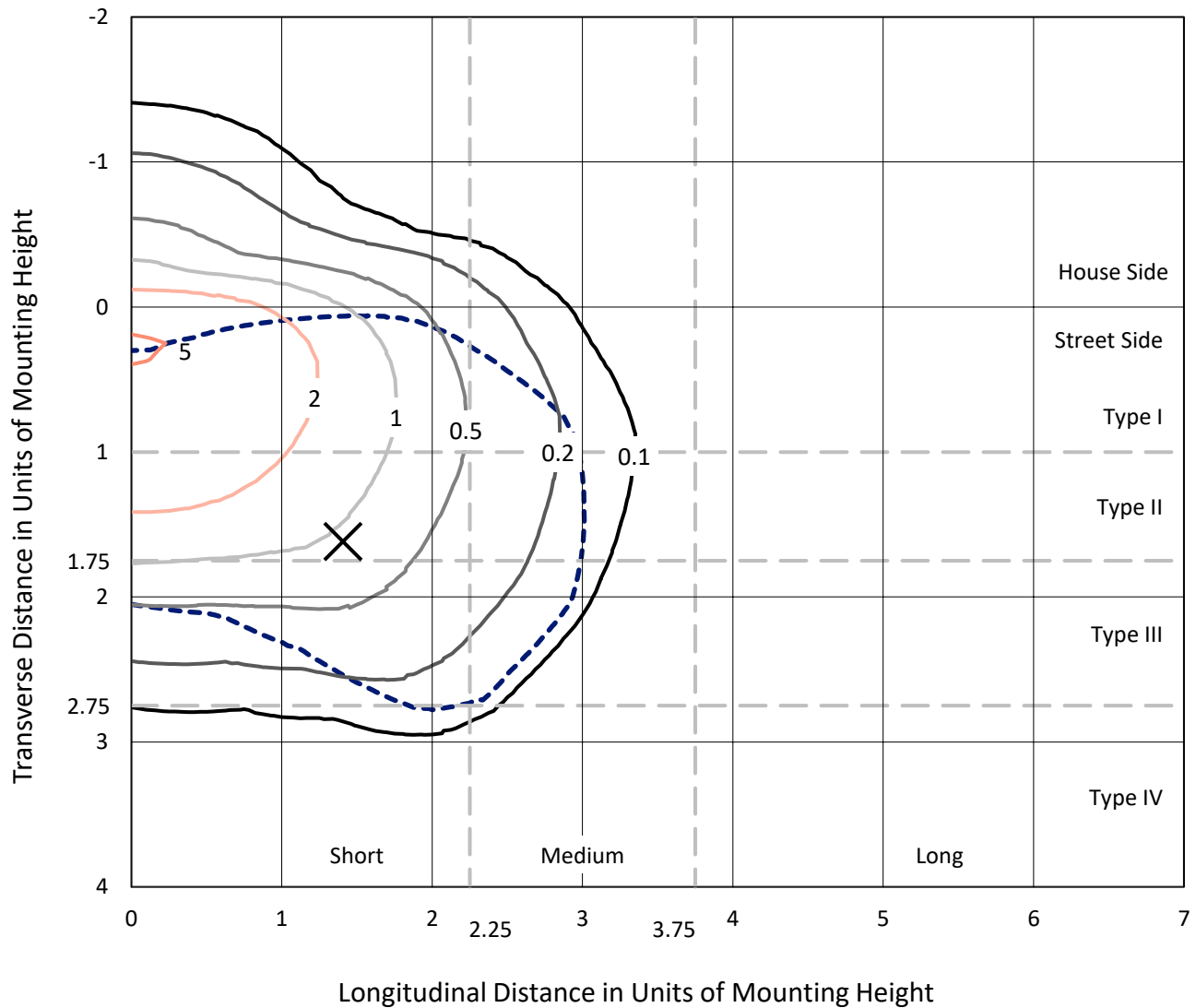


REPORT NUMBER: P836240

CATALOG NUMBER: ARCH3-160-722-U-T4W-HSS

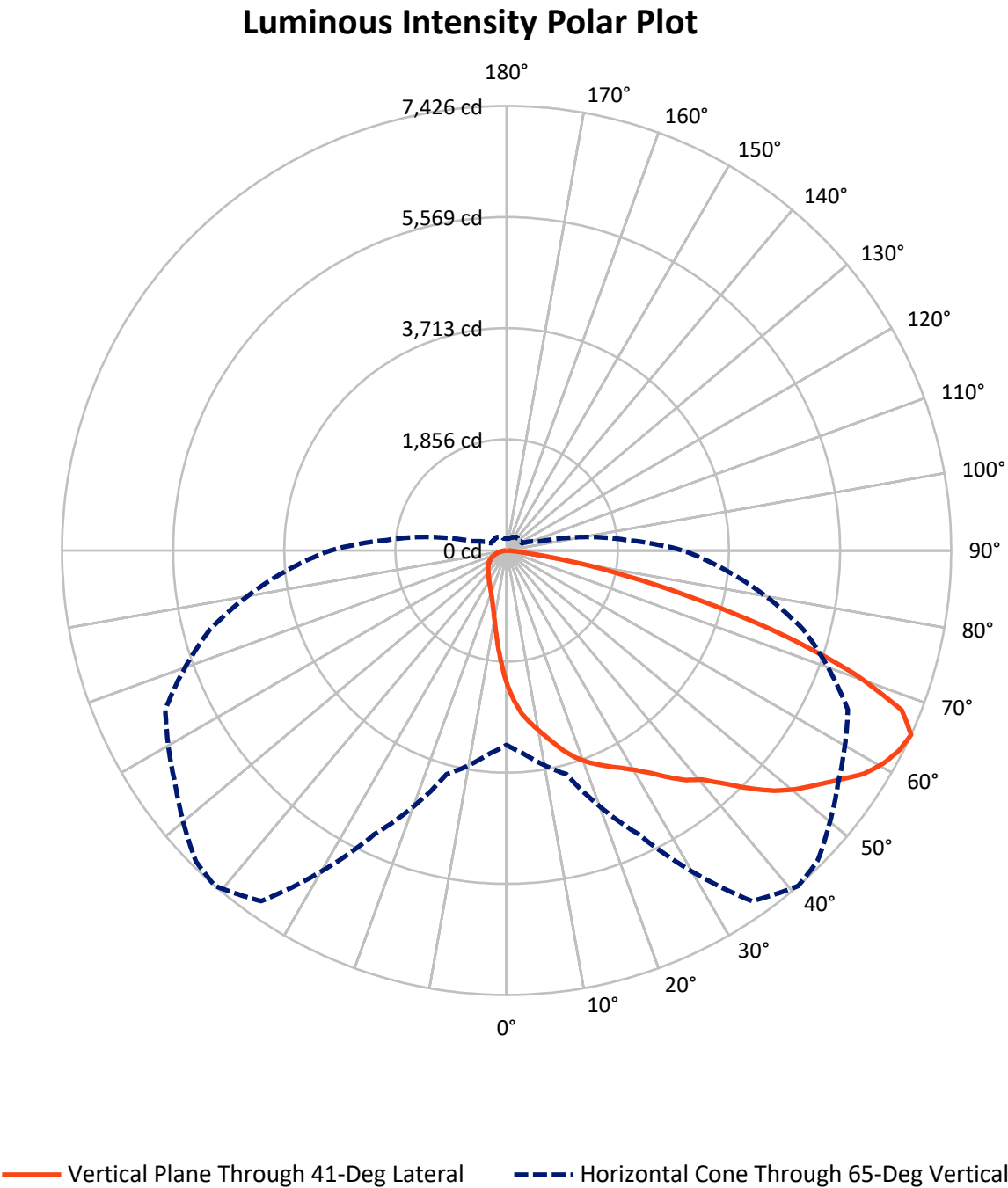
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 fc
Type III - Short - N/A

REPORT NUMBER: P836240
CATALOG NUMBER: ARCH3-160-722-U-T4W-HSS



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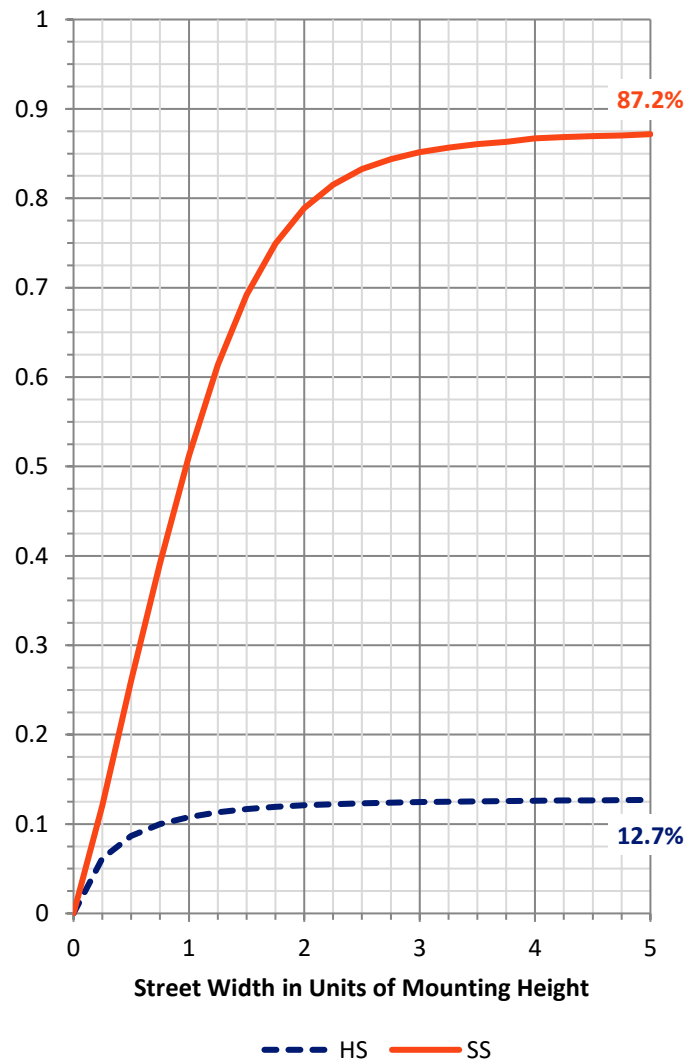
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1706.0	0.0	1706.0
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	11582.0	0.0	11582.0
	% Fixture	87.2	0.0	87.2
Total	Lumens	13288.0	0.0	13288.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	211.0	1.6
10°-20°	632.6	4.8
20°-30°	1088.3	8.2
30°-40°	1650.6	12.4
40°-50°	2418.1	18.2
50°-60°	3053.6	23.0
60°-70°	2863.3	21.5
70°-80°	1276.1	9.6
80°-90°	94.5	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°	13288.0	100.0
0°-180°	13288.0	100.0

Coefficient of Utilization



REPORT NUMBER: P836240

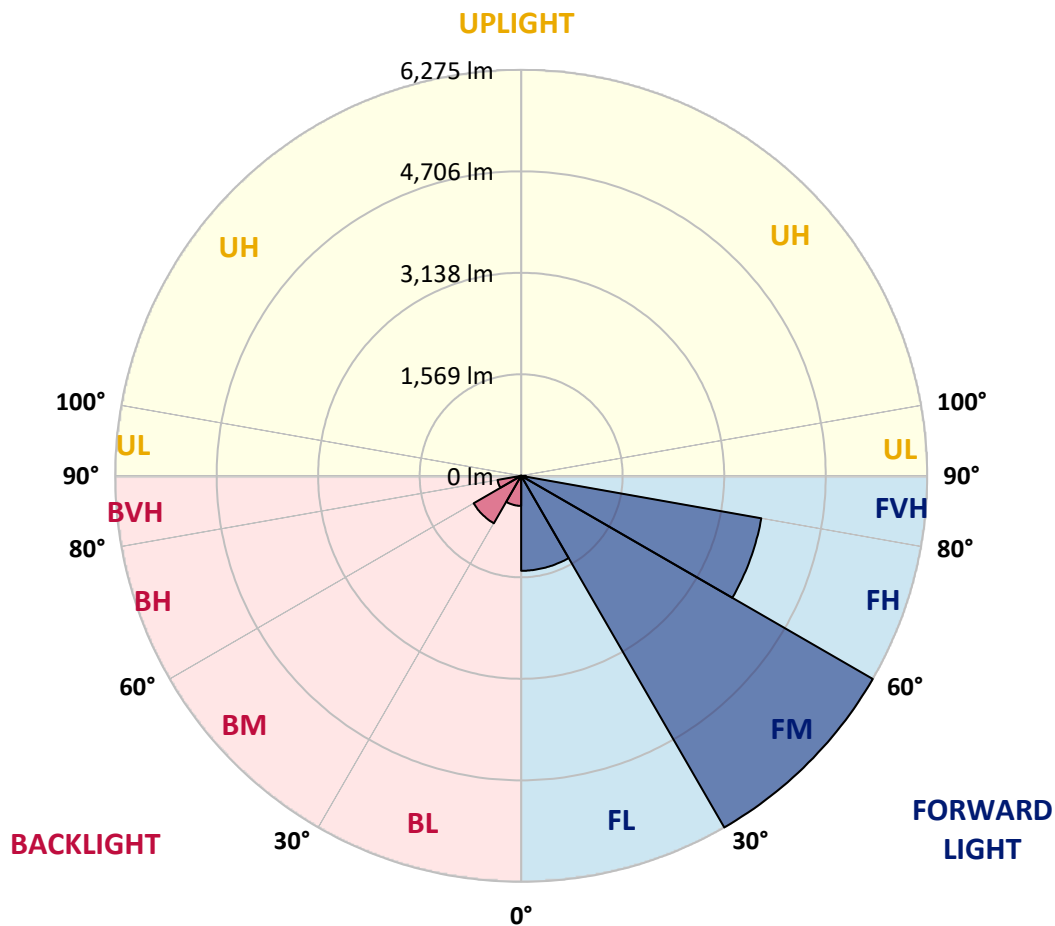
CATALOG NUMBER: ARCH3-160-722-U-T4W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1467.5	11.0			
FM	(30°-60°)	6275.1	47.2			
FH	(60°-80°)	3768.8	28.4			G2/5000
FVH	(80°-90°)	70.6	0.5			G1/100
BL	(0°-30°)	464.3	3.5	B1/500		
BM	(30°-60°)	847.1	6.4	B1/1000		
BH	(60°-80°)	370.6	2.8	B1/500		G1/500
BVH	(80°-90°)	23.9	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Short



REPORT NUMBER: P836240

CATALOG NUMBER: ARCH3-160-722-U-T4W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	41°	45°	55°	65°	75°	85°
0°	2264.2	2264.2	2264.2	2264.2	2264.2	2264.2	2264.2	2264.2	2264.2	2264.2	2264.2
2.5°	2611.7	2603.3	2597.7	2566.8	2566.8	2524.8	2527.6	2488.4	2440.7	2365.1	2283.8
5°	2858.3	2847.1	2833.1	2802.2	2791.0	2749.0	2743.4	2687.3	2606.1	2474.4	2328.7
7.5°	3074.1	3062.8	3043.2	2998.4	2967.6	2917.1	2903.1	2830.3	2740.6	2578.1	2373.5
10°	3270.2	3261.8	3236.6	3180.5	3138.5	3076.9	3051.6	2953.6	2841.5	2662.1	2409.9
12.5°	3469.2	3458.0	3424.3	3376.7	3326.3	3253.4	3222.6	3096.5	2953.6	2754.6	2463.2
15°	3654.1	3637.3	3612.1	3561.6	3516.8	3446.7	3413.1	3264.6	3090.9	2858.3	2533.2
17.5°	3774.6	3760.6	3738.2	3710.2	3673.7	3620.5	3586.9	3441.1	3228.2	2959.2	2606.1
20°	3847.5	3841.9	3833.5	3816.6	3799.8	3763.4	3738.2	3600.9	3376.7	3057.2	2676.1
22.5°	3903.5	3897.9	3895.1	3895.1	3897.9	3883.9	3867.1	3749.4	3519.6	3160.9	2740.6
25°	3990.4	3987.6	3982.0	3976.4	3996.0	3998.8	3993.2	3911.9	3698.9	3298.2	2821.9
27.5°	4110.9	4102.5	4091.3	4085.7	4105.3	4119.3	4130.5	4074.4	3889.5	3438.3	2914.3
30°	4295.8	4270.6	4242.6	4223.0	4237.0	4259.4	4284.6	4251.0	4085.7	3612.1	3009.6
32.5°	4514.4	4483.6	4419.1	4382.7	4419.1	4435.9	4455.6	4438.7	4290.2	3799.8	3104.9
35°	4780.6	4744.2	4676.9	4623.7	4688.1	4651.7	4643.3	4626.5	4483.6	3984.8	3211.4
37.5°	5223.4	5170.1	5063.6	4945.9	4945.9	4867.5	4836.7	4786.2	4657.3	4150.1	3315.0
40°	5736.2	5666.1	5528.8	5355.1	5195.3	5032.8	5013.2	4976.8	4861.9	4340.7	3432.7
42.5°	6299.4	6164.9	5974.4	5764.2	5506.4	5321.4	5276.6	5172.9	5060.8	4534.0	3550.4
45°	6924.3	6644.1	6366.7	6260.2	5834.3	5666.1	5582.1	5394.3	5268.2	4735.8	3673.7
47.5°	7025.2	6806.6	6621.7	6604.9	6139.7	5999.6	5904.3	5635.3	5492.4	4951.5	3802.6
50°	6969.2	6837.5	6857.1	6789.8	6363.9	6271.4	6198.5	5893.1	5713.8	5158.9	3920.3
52.5°	6733.8	6806.6	6918.7	6795.4	6576.8	6501.2	6464.8	6170.5	5921.1	5349.5	4026.8
55°	6453.5	6504.0	6745.0	6896.3	6823.4	6756.2	6722.6	6492.8	6125.7	5509.2	4124.9
57.5°	6044.4	6022.0	6288.2	6879.5	7081.2	7042.0	7005.6	6809.4	6316.2	5624.1	4186.5
60°	5430.7	5383.1	5719.4	6543.2	7165.3	7227.0	7210.2	7019.6	6462.0	5621.3	4161.3
62.5°	4368.7	4486.4	4951.5	5994.0	7201.7	7358.7	7327.8	7036.4	6509.6	5458.8	4001.6
65°	3247.8	3415.9	3872.7	5237.4	7151.3	7425.9	7341.9	6761.8	6288.2	5136.5	3651.3
67.5°	2339.9	2488.4	2821.9	4309.8	6666.5	7117.7	7019.6	6313.4	5778.2	4679.7	3166.5
70°	1600.1	1706.6	1933.5	3138.5	5691.3	6153.7	6092.1	5643.7	4974.0	4136.1	2572.5
72.5°	1129.3	1174.1	1319.9	2070.9	4323.8	4828.3	4755.4	4643.3	3996.0	3438.3	2000.8
75°	846.3	874.3	952.8	1339.5	2917.1	3345.9	3278.6	3343.1	2984.4	2603.3	1457.2
77.5°	319.5	347.5	540.8	854.7	1726.2	2054.0	1986.8	2026.0	1658.9	1314.2	725.8
80°	86.9	92.5	179.3	406.3	784.6	1022.8	930.3	798.6	616.5	605.3	383.9
82.5°	36.4	42.0	81.3	218.6	280.2	280.2	235.4	291.4	235.4	283.0	184.9
85°	14.0	16.8	19.6	56.0	36.4	39.2	42.0	56.0	47.6	58.8	42.0
87.5°	0.0	0.0	0.0	2.8	2.8	5.6	2.8	5.6	8.4	8.4	8.4
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: P836240

CATALOG NUMBER: ARCH3-160-722-U-T4W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2264.2	2264.2	2264.2	2264.2	2264.2	2264.2	2264.2	2264.2	2264.2	2264.2	2264.2
2.5°	2250.2	2219.4	2174.5	2101.7	2026.0	1984.0	1930.7	1922.3	1866.3	1860.7	1838.3
5°	2264.2	2199.8	2084.9	1944.8	1807.4	1701.0	1622.5	1580.5	1499.2	1499.2	1476.8
7.5°	2275.4	2174.5	1989.6	1782.2	1594.5	1451.6	1345.1	1300.2	1227.4	1221.8	1205.0
10°	2278.2	2143.7	1885.9	1616.9	1387.1	1241.4	1137.7	1087.3	1022.8	1017.2	1006.0
12.5°	2300.6	2126.9	1793.4	1474.0	1238.6	1081.7	980.8	938.7	888.3	882.7	871.5
15°	2337.1	2126.9	1715.0	1353.5	1106.9	961.2	874.3	835.1	798.6	793.0	787.4
17.5°	2373.5	2121.3	1636.5	1241.4	997.6	865.9	790.2	759.4	731.4	728.6	723.0
20°	2407.1	2118.5	1558.0	1146.1	913.5	787.4	728.6	700.6	678.1	678.1	675.3
22.5°	2440.7	2112.9	1482.4	1056.4	840.7	728.6	678.1	647.3	630.5	630.5	627.7
25°	2491.2	2112.9	1412.3	980.8	781.8	683.7	633.3	610.9	596.9	594.1	594.1
27.5°	2550.0	2129.7	1350.7	913.5	731.4	638.9	599.7	577.3	560.4	554.8	557.6
30°	2614.5	2143.7	1294.6	854.7	683.7	605.3	563.2	540.8	524.0	518.4	521.2
32.5°	2678.9	2160.5	1244.2	801.4	636.1	574.5	532.4	507.2	490.4	487.6	487.6
35°	2749.0	2177.3	1193.8	756.6	596.9	543.6	504.4	476.4	465.2	459.6	462.4
37.5°	2819.0	2205.4	1146.1	714.6	568.9	515.6	479.2	451.2	442.8	440.0	440.0
40°	2903.1	2247.4	1126.5	686.5	543.6	490.4	459.6	431.5	423.1	423.1	423.1
42.5°	2973.2	2281.0	1109.7	655.7	524.0	468.0	440.0	417.5	411.9	409.1	411.9
45°	3043.2	2311.8	1087.3	627.7	498.8	445.6	423.1	400.7	395.1	395.1	395.1
47.5°	3113.3	2328.7	1056.4	599.7	476.4	425.9	406.3	386.7	381.1	381.1	381.1
50°	3169.3	2342.7	1011.6	568.9	451.2	409.1	389.5	369.9	364.3	364.3	364.3
52.5°	3225.4	2345.5	964.0	532.4	425.9	389.5	372.7	353.1	347.5	344.7	344.7
55°	3275.8	2342.7	907.9	490.4	397.9	367.1	353.1	336.3	325.1	313.9	319.5
57.5°	3312.2	2339.9	843.5	448.4	369.9	344.7	339.1	316.7	294.2	266.2	271.8
60°	3298.2	2309.0	773.4	395.1	339.1	322.3	322.3	291.4	252.2	238.2	241.0
62.5°	3208.6	2222.2	700.6	339.1	308.2	299.8	297.0	263.4	232.6	218.6	221.4
65°	2939.5	2003.6	594.1	288.6	277.4	274.6	274.6	243.8	215.8	199.0	201.8
67.5°	2530.4	1681.3	484.8	243.8	246.6	252.2	252.2	224.2	196.2	179.3	182.1
70°	2028.8	1314.2	386.7	210.2	213.0	221.4	227.0	201.8	176.5	159.7	159.7
72.5°	1527.2	997.6	311.0	176.5	190.6	190.6	199.0	179.3	154.1	137.3	140.1
75°	1106.9	714.6	246.6	148.5	165.3	162.5	162.5	151.3	131.7	120.5	120.5
77.5°	524.0	375.5	196.2	106.5	128.9	126.1	128.9	120.5	112.1	100.9	103.7
80°	257.8	184.9	126.1	75.7	89.7	92.5	100.9	95.3	92.5	84.1	84.1
82.5°	123.3	72.9	58.8	53.2	61.6	64.5	70.1	70.1	72.9	67.3	67.3
85°	33.6	19.6	25.2	33.6	39.2	42.0	47.6	50.4	50.4	47.6	50.4
87.5°	8.4	8.4	11.2	16.8	19.6	22.4	25.2	25.2	11.2	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)