

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: P836312

Luminaire Tested: **ARCH3-170-722-U-T4W-HSS**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836312
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: ARCH3-170-722-U-T4W-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2200K, 1310mA 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: 13782 lumens
Efficiency: N/A
Efficacy: 80.8 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): 170.6
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

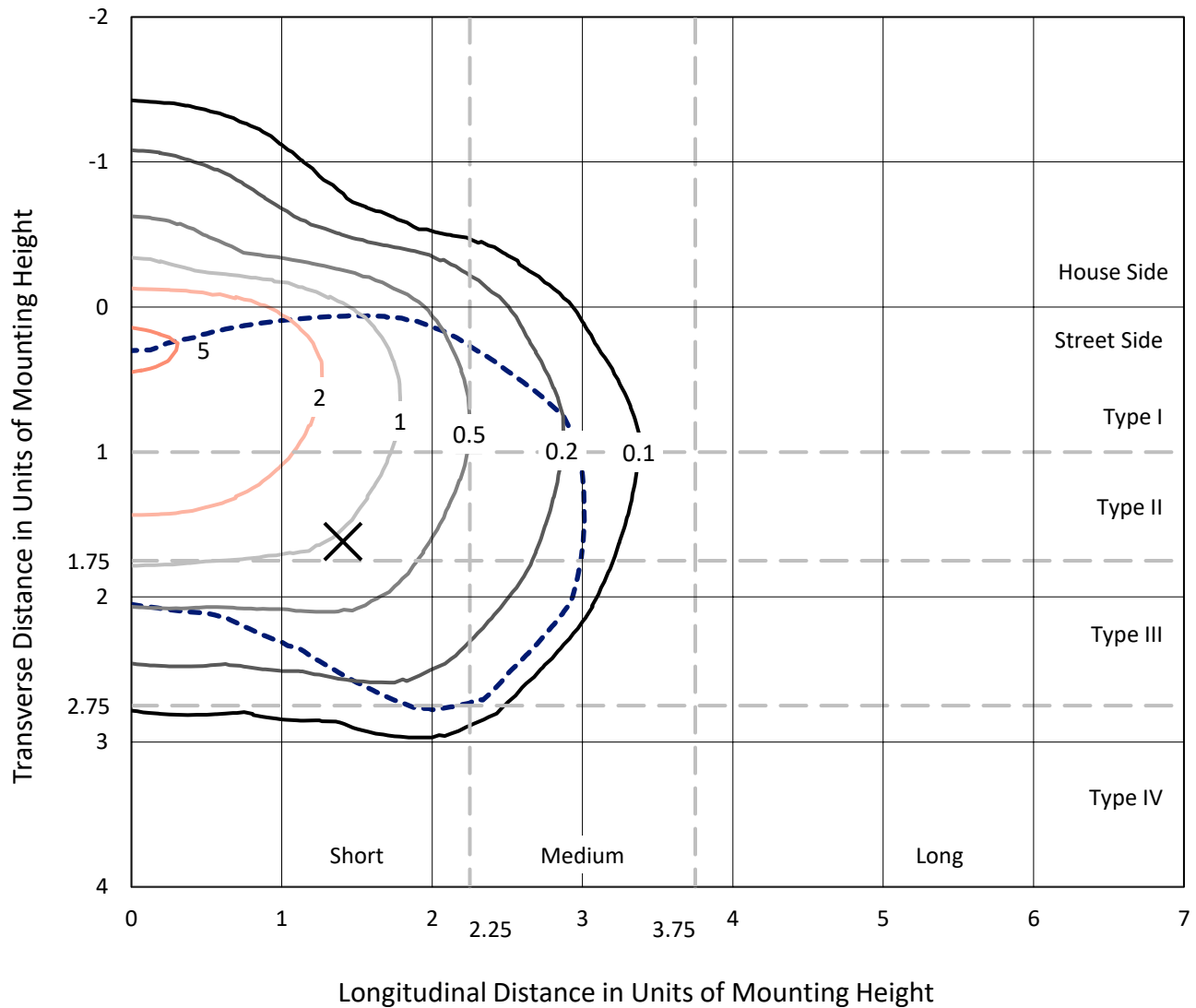


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

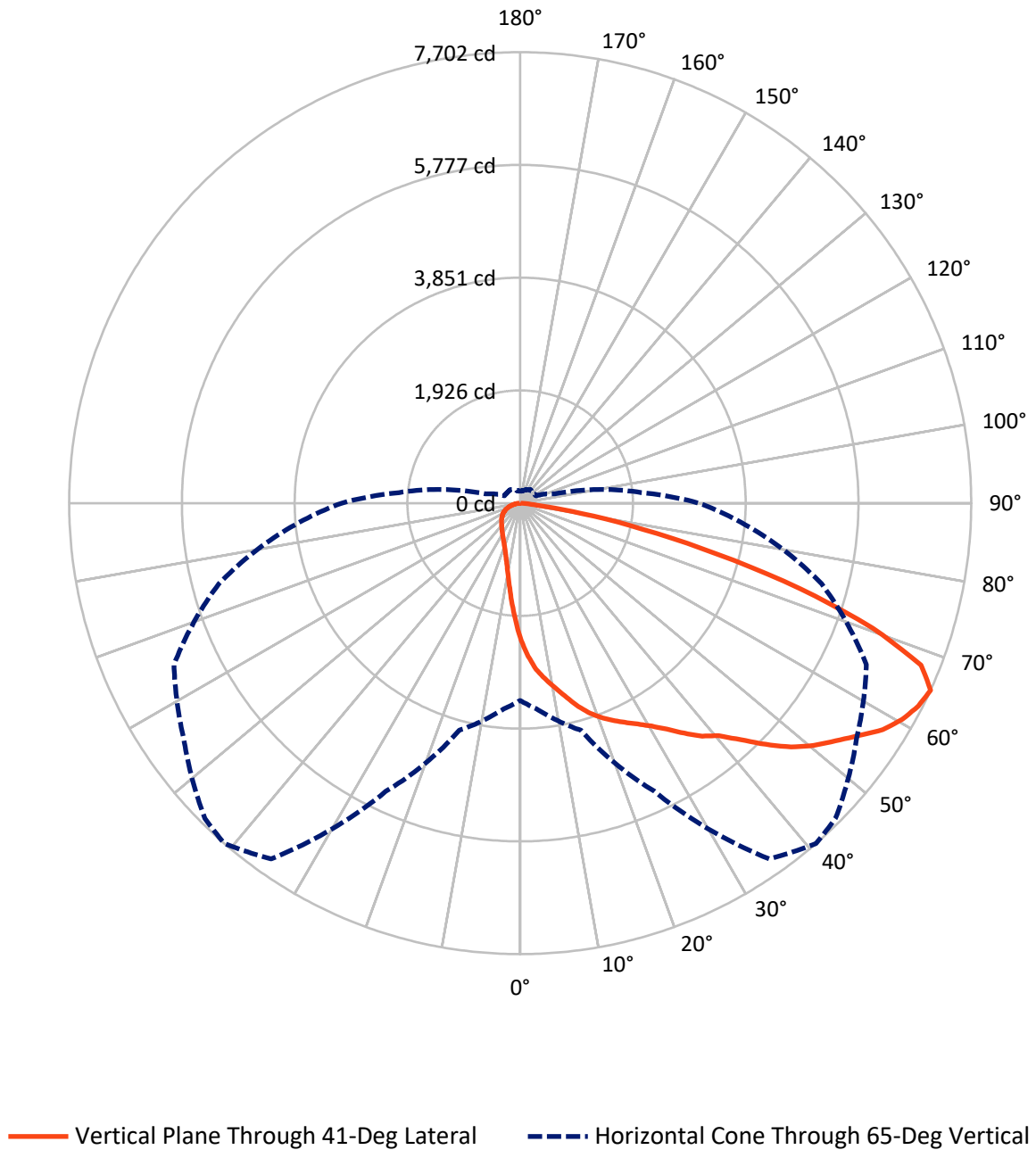


Based on 25 foot mounting height. Maximum calculated value = 5.4 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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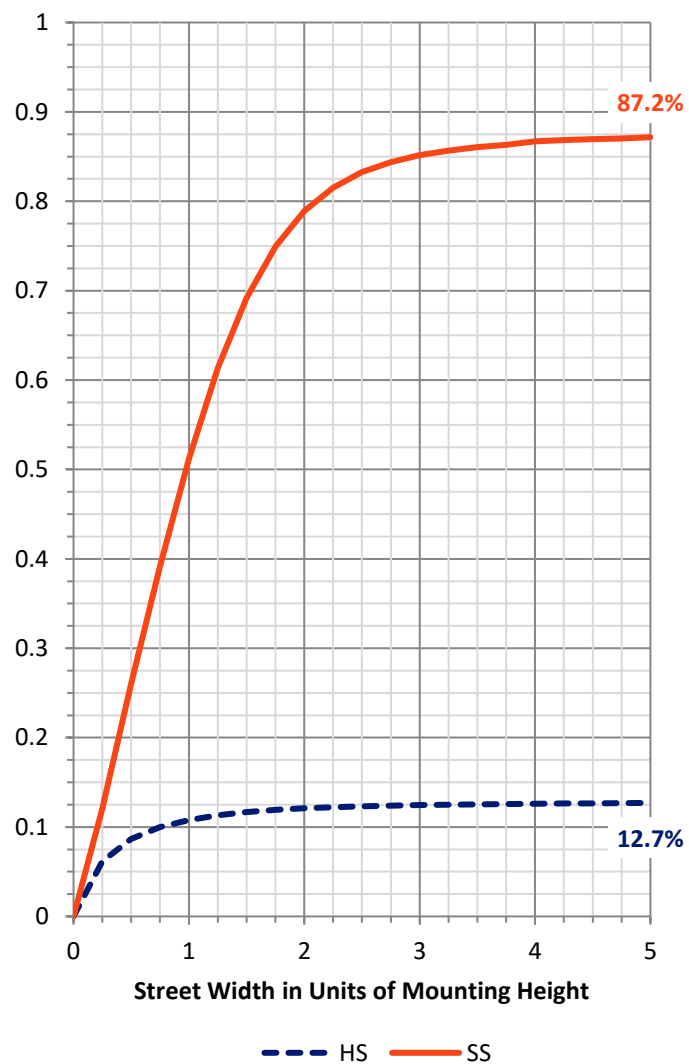
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1769.4	0.0	1769.4
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	12012.6	0.0	12012.6
	% Fixture	87.2	0.0	87.2
Total	Lumens	13782.0	0.0	13782.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	218.8	1.6
10°-20°	656.1	4.8
20°-30°	1128.7	8.2
30°-40°	1711.9	12.4
40°-50°	2508.0	18.2
50°-60°	3167.1	23.0
60°-70°	2969.7	21.5
70°-80°	1323.6	9.6
80°-90°	98.0	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°	13782.0	100.0
0°-180°	13782.0	100.0

Coefficient of Utilization



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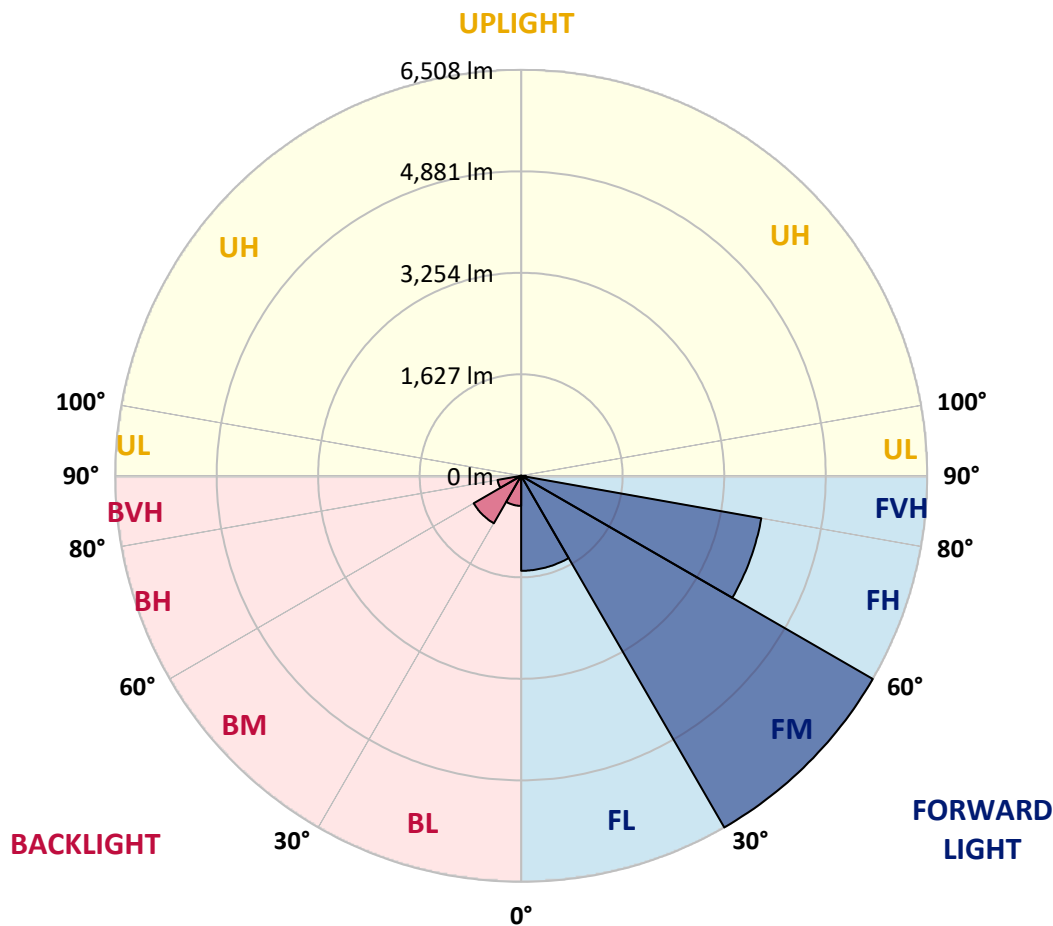
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1522.0	11.0			
FM	(30°-60°)	6508.4	47.2			
FH	(60°-80°)	3908.9	28.4			G2/5000
FVH	(80°-90°)	73.2	0.5			G1/100
BL	(0°-30°)	481.6	3.5	B1/500		
BM	(30°-60°)	878.6	6.4	B1/1000		
BH	(60°-80°)	384.4	2.8	B1/500		G1/500
BVH	(80°-90°)	24.8	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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	41°	45°	55°	65°	75°	85°
0°	2348.4	2348.4	2348.4	2348.4	2348.4	2348.4	2348.4	2348.4	2348.4	2348.4	2348.4
2.5°	2708.8	2700.1	2694.2	2662.3	2662.3	2618.7	2621.6	2580.9	2531.5	2453.0	2368.7
5°	2964.5	2952.9	2938.4	2906.4	2894.8	2851.2	2845.4	2787.2	2703.0	2566.4	2415.2
7.5°	3188.3	3176.7	3156.4	3109.9	3077.9	3025.6	3011.0	2935.5	2842.5	2673.9	2461.7
10°	3391.8	3383.1	3356.9	3298.8	3255.2	3191.2	3165.1	3063.4	2947.1	2761.1	2499.5
12.5°	3598.1	3586.5	3551.6	3502.2	3449.9	3374.3	3342.4	3211.6	3063.4	2857.0	2554.7
15°	3790.0	3772.5	3746.4	3694.0	3647.5	3574.9	3540.0	3386.0	3205.8	2964.5	2627.4
17.5°	3914.9	3900.4	3877.2	3848.1	3810.3	3755.1	3720.2	3569.1	3348.2	3069.2	2703.0
20°	3990.5	3984.7	3976.0	3958.5	3941.1	3903.3	3877.2	3734.7	3502.2	3170.9	2775.6
22.5°	4048.6	4042.8	4039.9	4039.9	4042.8	4028.3	4010.8	3888.8	3650.5	3278.4	2842.5
25°	4138.7	4135.8	4130.0	4124.2	4144.5	4147.4	4141.6	4057.4	3836.5	3420.8	2926.8
27.5°	4263.7	4255.0	4243.4	4237.5	4257.9	4272.4	4284.1	4225.9	4034.1	3566.2	3022.7
30°	4455.5	4429.4	4400.3	4380.0	4394.5	4417.7	4443.9	4409.0	4237.5	3746.4	3121.5
32.5°	4682.2	4650.3	4583.4	4545.6	4583.4	4600.8	4621.2	4603.8	4449.7	3941.1	3220.3
35°	4958.3	4920.6	4850.8	4795.6	4862.4	4824.6	4815.9	4798.5	4650.3	4132.9	3330.7
37.5°	5417.6	5362.3	5251.9	5129.8	5129.8	5048.4	5016.5	4964.2	4830.5	4304.4	3438.3
40°	5949.4	5876.8	5734.4	5554.2	5388.5	5219.9	5199.6	5161.8	5042.6	4502.0	3560.4
42.5°	6533.6	6394.1	6196.5	5978.5	5711.1	5519.3	5472.8	5365.2	5249.0	4702.6	3682.4
45°	7181.7	6891.1	6603.4	6492.9	6051.1	5876.8	5789.6	5594.8	5464.1	4911.8	3810.3
47.5°	7286.4	7059.7	6867.9	6850.4	6367.9	6222.6	6123.8	5844.8	5696.6	5135.6	3944.0
50°	7228.2	7091.6	7112.0	7042.2	6600.5	6504.5	6429.0	6112.2	5926.2	5350.7	4066.1
52.5°	6984.1	7059.7	7175.9	7048.0	6821.3	6742.9	6705.1	6399.9	6141.2	5548.3	4176.5
55°	6693.5	6745.8	6995.7	7152.7	7077.1	7007.4	6972.5	6734.2	6353.4	5714.0	4278.2
57.5°	6269.1	6245.9	6522.0	7135.2	7344.5	7303.8	7266.0	7062.6	6551.1	5833.2	4342.2
60°	5632.6	5583.2	5932.0	6786.5	7431.7	7495.6	7478.2	7280.6	6702.2	5830.3	4316.0
62.5°	4531.1	4653.2	5135.6	6216.8	7469.5	7632.2	7600.3	7298.0	6751.6	5661.7	4150.4
65°	3368.5	3542.9	4016.7	5432.1	7417.2	7702.0	7614.8	7013.2	6522.0	5327.5	3787.1
67.5°	2426.9	2580.9	2926.8	4470.1	6914.4	7382.3	7280.6	6548.1	5993.0	4853.7	3284.2
70°	1659.6	1770.0	2005.4	3255.2	5902.9	6382.5	6318.5	5853.5	5158.9	4289.9	2668.1
72.5°	1171.3	1217.8	1368.9	2147.8	4484.6	5007.7	4932.2	4815.9	4144.5	3566.2	2075.2
75°	877.7	906.8	988.2	1389.3	3025.6	3470.3	3400.5	3467.3	3095.3	2700.1	1511.3
77.5°	331.3	360.4	560.9	886.5	1790.3	2130.4	2060.6	2101.3	1720.6	1363.1	752.8
80°	90.1	95.9	186.0	421.4	813.8	1060.8	964.9	828.3	639.4	627.8	398.2
82.5°	37.8	43.6	84.3	226.7	290.6	290.6	244.1	302.3	244.1	293.5	191.8
85°	14.5	17.4	20.3	58.1	37.8	40.7	43.6	58.1	49.4	61.0	43.6
87.5°	0.0	0.0	0.0	2.9	2.9	5.8	2.9	5.8	8.7	8.7	8.7
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°	2348.4	2348.4	2348.4	2348.4	2348.4	2348.4	2348.4	2348.4	2348.4	2348.4	2348.4
2.5°	2333.8	2301.9	2255.4	2179.8	2101.3	2057.7	2002.5	1993.8	1935.7	1929.9	1906.6
5°	2348.4	2281.5	2162.4	2017.0	1874.6	1764.2	1682.8	1639.2	1554.9	1554.9	1531.7
7.5°	2360.0	2255.4	2063.6	1848.5	1653.7	1505.5	1395.1	1348.6	1273.0	1267.2	1249.8
10°	2362.9	2223.4	1956.0	1677.0	1438.7	1287.5	1180.0	1127.7	1060.8	1055.0	1043.4
12.5°	2386.2	2206.0	1860.1	1528.8	1284.6	1121.9	1017.2	973.6	921.3	915.5	903.9
15°	2423.9	2206.0	1778.7	1403.8	1148.0	996.9	906.8	866.1	828.3	822.5	816.7
17.5°	2461.7	2200.2	1697.3	1287.5	1034.7	898.1	819.6	787.6	758.6	755.7	749.9
20°	2496.6	2197.2	1616.0	1188.7	947.5	816.7	755.7	726.6	703.4	703.4	700.4
22.5°	2531.5	2191.4	1537.5	1095.7	871.9	755.7	703.4	671.4	653.9	653.9	651.0
25°	2583.8	2191.4	1464.8	1017.2	810.9	709.2	656.8	633.6	619.1	616.2	616.2
27.5°	2644.8	2208.9	1400.9	947.5	758.6	662.7	622.0	598.7	581.3	575.5	578.4
30°	2711.7	2223.4	1342.8	886.5	709.2	627.8	584.2	560.9	543.5	537.7	540.6
32.5°	2778.5	2240.8	1290.4	831.2	659.8	595.8	552.2	526.1	508.6	505.7	505.7
35°	2851.2	2258.3	1238.1	784.7	619.1	563.8	523.2	494.1	482.5	476.7	479.6
37.5°	2923.9	2287.3	1188.7	741.1	590.0	534.8	497.0	467.9	459.2	456.3	456.3
40°	3011.0	2330.9	1168.4	712.1	563.8	508.6	476.7	447.6	438.9	438.9	438.9
42.5°	3083.7	2365.8	1150.9	680.1	543.5	485.4	456.3	433.1	427.2	424.3	427.2
45°	3156.4	2397.8	1127.7	651.0	517.3	462.1	438.9	415.6	409.8	409.8	409.8
47.5°	3229.0	2415.2	1095.7	622.0	494.1	441.8	421.4	401.1	395.3	395.3	395.3
50°	3287.2	2429.8	1049.2	590.0	467.9	424.3	404.0	383.6	377.8	377.8	377.8
52.5°	3345.3	2432.7	999.8	552.2	441.8	404.0	386.6	366.2	360.4	357.5	357.5
55°	3397.6	2429.8	941.7	508.6	412.7	380.7	366.2	348.8	337.1	325.5	331.3
57.5°	3435.4	2426.9	874.8	465.0	383.6	357.5	351.7	328.4	305.2	276.1	281.9
60°	3420.8	2394.9	802.2	409.8	351.7	334.2	334.2	302.3	261.6	247.0	250.0
62.5°	3327.8	2304.8	726.6	351.7	319.7	311.0	308.1	273.2	241.2	226.7	229.6
65°	3048.8	2078.1	616.2	299.4	287.7	284.8	284.8	252.9	223.8	206.4	209.3
67.5°	2624.5	1743.8	502.8	252.9	255.8	261.6	261.6	232.5	203.4	186.0	188.9
70°	2104.2	1363.1	401.1	218.0	220.9	229.6	235.4	209.3	183.1	165.7	165.7
72.5°	1584.0	1034.7	322.6	183.1	197.6	197.6	206.4	186.0	159.9	142.4	145.3
75°	1148.0	741.1	255.8	154.0	171.5	168.6	168.6	156.9	136.6	125.0	125.0
77.5°	543.5	389.5	203.4	110.4	133.7	130.8	133.7	125.0	116.3	104.6	107.5
80°	267.4	191.8	130.8	78.5	93.0	95.9	104.6	98.8	95.9	87.2	87.2
82.5°	127.9	75.6	61.0	55.2	63.9	66.8	72.7	72.7	75.6	69.8	69.8
85°	34.9	20.3	26.2	34.9	40.7	43.6	49.4	52.3	52.3	49.4	52.3
87.5°	8.7	8.7	11.6	17.4	20.3	23.3	26.2	26.2	11.6	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)