

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: P835961

Luminaire Tested: **ARCH3-120-727-U-T4W-HSS**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P835961
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: ARCH3-120-727-U-T4W-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 965mA 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: 12061 lumens
Efficiency: N/A
Efficacy: 98.3 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): 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

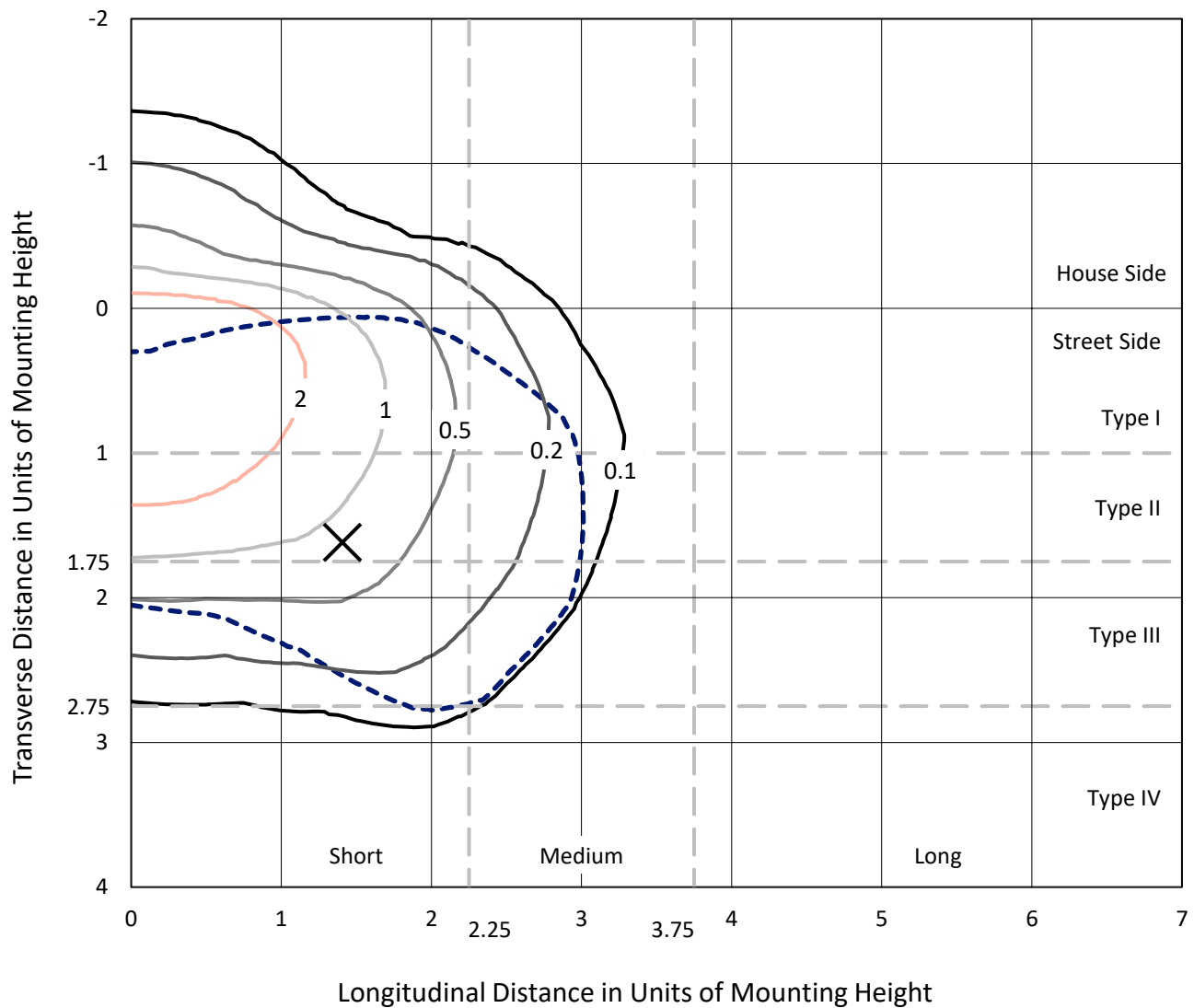


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

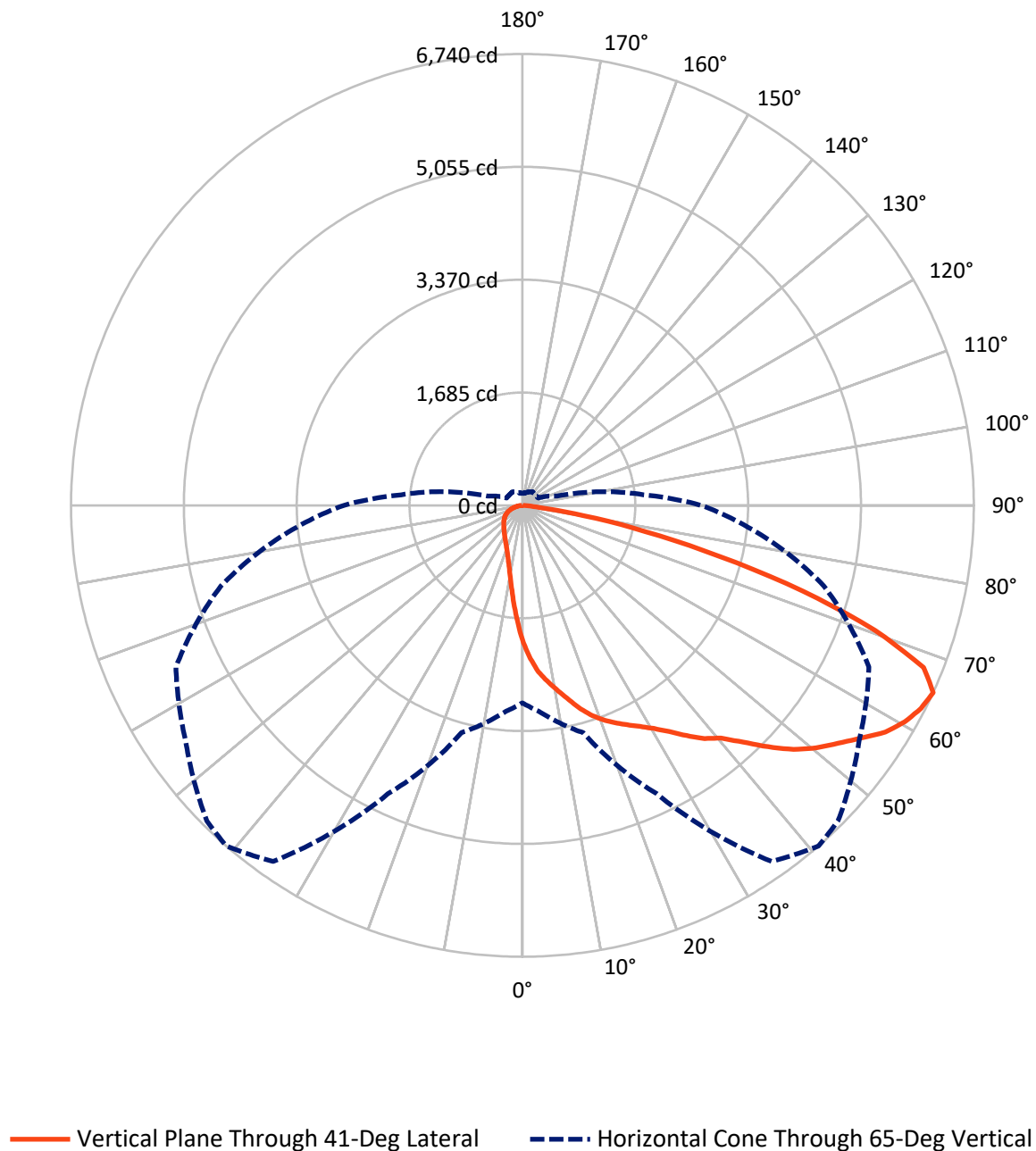


Based on 25 foot mounting height. Maximum calculated value = 4.8 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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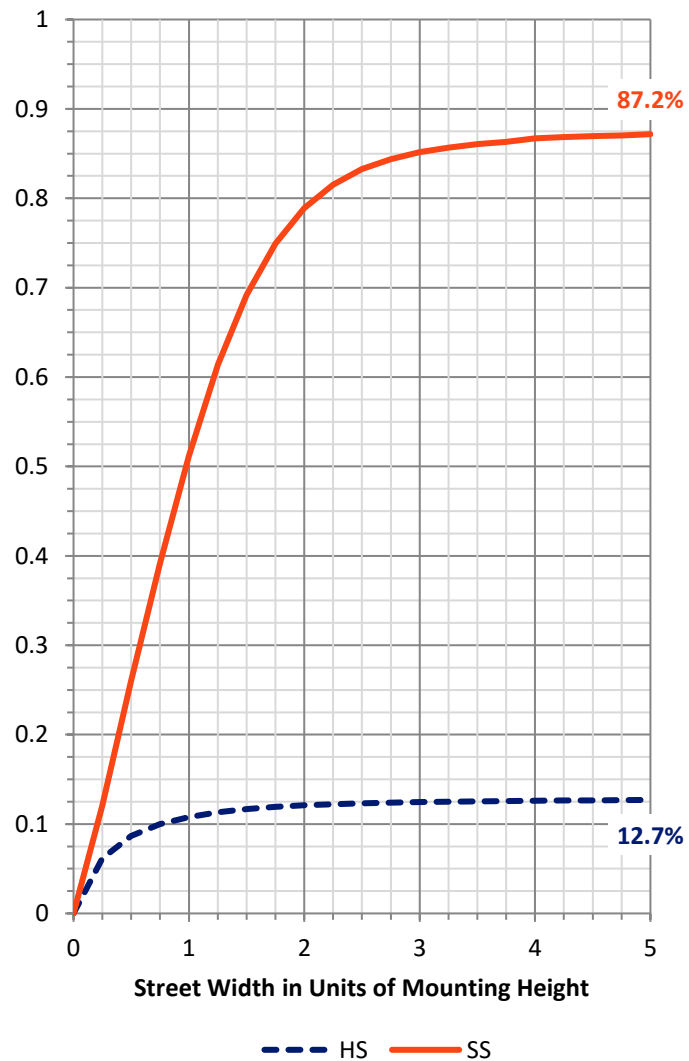
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1548.4	0.0	1548.4
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	10512.6	0.0	10512.6
	% Fixture	87.2	0.0	87.2
Total	Lumens	12061.0	0.0	12061.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	191.5	1.6
10°-20°	574.2	4.8
20°-30°	987.8	8.2
30°-40°	1498.1	12.4
40°-50°	2194.8	18.2
50°-60°	2771.6	23.0
60°-70°	2598.9	21.5
70°-80°	1158.3	9.6
80°-90°	85.8	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°	12061.0	100.0
0°-180°	12061.0	100.0

Coefficient of Utilization



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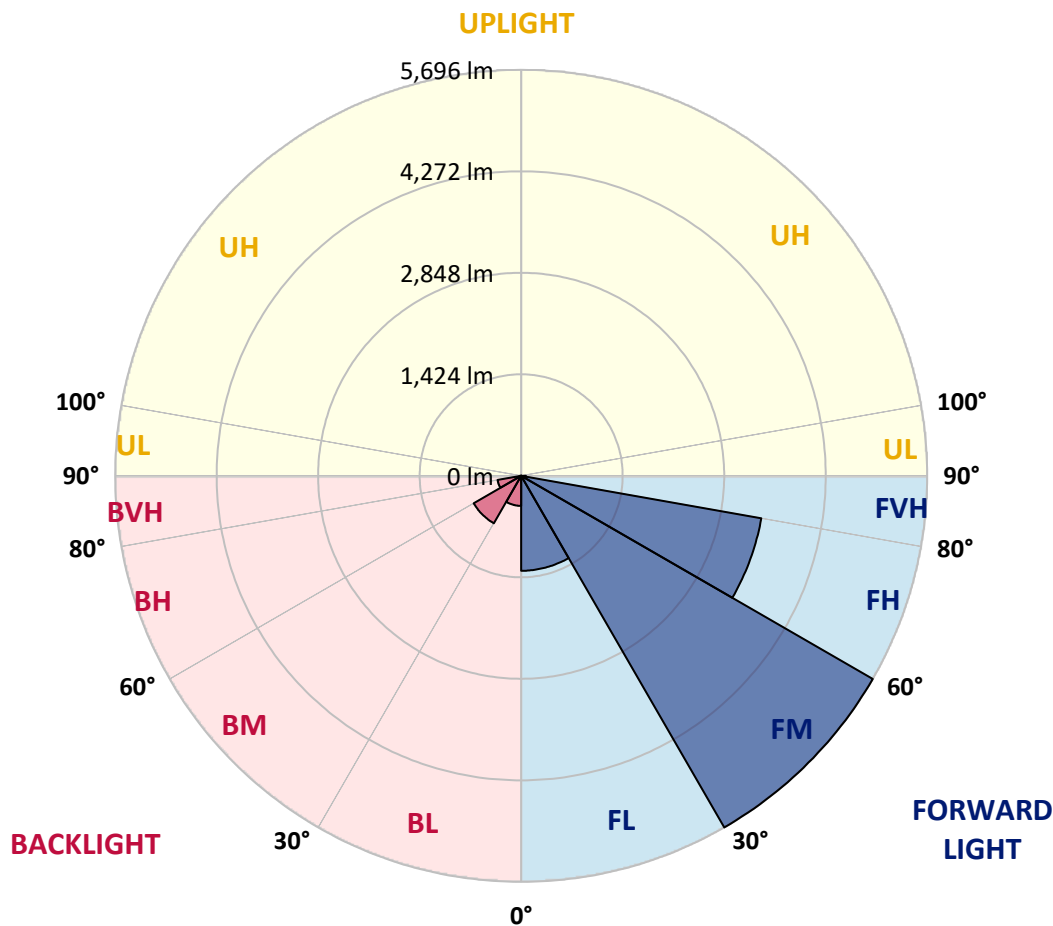
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1332.0	11.0			
FM	(30°-60°)	5695.7	47.2			
FH	(60°-80°)	3420.8	28.4			G2/5000
FVH	(80°-90°)	64.1	0.5			G1/100
BL	(0°-30°)	421.5	3.5	B1/500		
BM	(30°-60°)	768.9	6.4	B1/1000		
BH	(60°-80°)	336.4	2.8	B1/500		G1/500
BVH	(80°-90°)	21.7	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°	2055.1	2055.1	2055.1	2055.1	2055.1	2055.1	2055.1	2055.1	2055.1	2055.1	2055.1
2.5°	2370.5	2362.9	2357.8	2329.8	2329.8	2291.7	2294.2	2258.6	2215.4	2146.7	2072.9
5°	2594.3	2584.2	2571.5	2543.5	2533.3	2495.2	2490.1	2439.2	2365.4	2245.9	2113.6
7.5°	2790.2	2780.0	2762.2	2721.5	2693.5	2647.8	2635.0	2568.9	2487.5	2340.0	2154.3
10°	2968.2	2960.6	2937.7	2886.8	2848.7	2792.7	2769.8	2680.8	2579.1	2416.3	2187.4
12.5°	3148.8	3138.7	3108.1	3064.9	3019.1	2953.0	2925.0	2810.5	2680.8	2500.2	2235.7
15°	3316.7	3301.4	3278.5	3232.8	3192.1	3128.5	3098.0	2963.2	2805.5	2594.3	2299.3
17.5°	3426.1	3413.3	3393.0	3367.6	3334.5	3286.2	3255.7	3123.4	2930.1	2685.9	2365.4
20°	3492.2	3487.1	3479.5	3464.2	3449.0	3415.9	3393.0	3268.4	3064.9	2774.9	2429.0
22.5°	3543.1	3538.0	3535.4	3535.4	3538.0	3525.3	3510.0	3403.2	3194.6	2869.0	2487.5
25°	3621.9	3619.4	3614.3	3609.2	3627.0	3629.5	3624.5	3550.7	3357.4	2993.7	2561.3
27.5°	3731.3	3723.7	3713.5	3708.4	3726.2	3738.9	3749.1	3698.2	3530.3	3120.8	2645.2
30°	3899.2	3876.3	3850.8	3833.0	3845.7	3866.1	3889.0	3858.5	3708.4	3278.5	2731.7
32.5°	4097.5	4069.6	4011.1	3978.0	4011.1	4026.3	4044.1	4028.9	3894.1	3449.0	2818.2
35°	4339.2	4306.1	4245.1	4196.7	4255.2	4222.2	4214.5	4199.3	4069.6	3616.8	2914.8
37.5°	4741.0	4692.7	4596.1	4489.2	4489.2	4418.0	4390.0	4344.3	4227.3	3766.9	3008.9
40°	5206.5	5142.9	5018.3	4860.6	4715.6	4568.1	4550.3	4517.2	4412.9	3939.8	3115.8
42.5°	5717.7	5595.7	5422.7	5231.9	4997.9	4830.1	4789.4	4695.3	4593.5	4115.3	3222.6
45°	6284.9	6030.6	5778.8	5682.1	5295.5	5142.9	5066.6	4896.2	4781.7	4298.5	3334.5
47.5°	6376.5	6178.1	6010.2	5995.0	5572.8	5445.6	5359.1	5114.9	4985.2	4494.3	3451.5
50°	6325.6	6206.1	6223.9	6162.9	5776.2	5692.3	5626.2	5348.9	5186.2	4682.5	3558.3
52.5°	6112.0	6178.1	6279.9	6167.9	5969.5	5900.9	5867.8	5600.7	5374.4	4855.5	3655.0
55°	5857.6	5903.4	6122.2	6259.5	6193.4	6132.3	6101.8	5893.2	5560.0	5000.5	3744.0
57.5°	5486.3	5465.9	5707.6	6244.2	6427.4	6391.8	6358.7	6180.7	5733.0	5104.8	3800.0
60°	4929.3	4886.0	5191.2	5939.0	6503.7	6559.6	6544.4	6371.4	5865.3	5102.2	3777.1
62.5°	3965.3	4072.1	4494.3	5440.5	6536.7	6679.2	6651.2	6386.7	5908.5	4954.7	3632.1
65°	2947.9	3100.5	3515.1	4753.8	6491.0	6740.2	6663.9	6137.4	5707.6	4662.2	3314.2
67.5°	2123.8	2258.6	2561.3	3911.9	6050.9	6460.4	6371.4	5730.5	5244.7	4247.6	2874.1
70°	1452.3	1549.0	1755.0	2848.7	5165.8	5585.5	5529.5	5122.6	4514.7	3754.2	2334.9
72.5°	1025.0	1065.7	1198.0	1879.6	3924.6	4382.4	4316.3	4214.5	3627.0	3120.8	1816.0
75°	768.1	793.6	864.8	1215.8	2647.8	3036.9	2975.9	3034.4	2708.8	2362.9	1322.6
77.5°	290.0	315.4	490.9	775.8	1566.8	1864.4	1803.3	1838.9	1505.7	1192.9	658.8
80°	78.8	83.9	162.8	368.8	712.2	928.4	844.4	724.9	559.6	549.4	348.5
82.5°	33.1	38.2	73.8	198.4	254.3	254.3	213.7	264.5	213.7	256.9	167.9
85°	12.7	15.3	17.8	50.9	33.1	35.6	38.2	50.9	43.2	53.4	38.2
87.5°	0.0	0.0	0.0	2.5	2.5	5.1	2.5	5.1	7.6	7.6	7.6
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°	2055.1	2055.1	2055.1	2055.1	2055.1	2055.1	2055.1	2055.1	2055.1	2055.1	2055.1
2.5°	2042.4	2014.4	1973.7	1907.6	1838.9	1800.8	1752.5	1744.8	1694.0	1688.9	1668.5
5°	2055.1	1996.6	1892.3	1765.2	1640.5	1543.9	1472.7	1434.5	1360.8	1360.8	1340.4
7.5°	2065.3	1973.7	1805.9	1617.7	1447.2	1317.5	1220.9	1180.2	1114.0	1109.0	1093.7
10°	2067.8	1945.8	1711.8	1467.6	1259.0	1126.8	1032.7	986.9	928.4	923.3	913.1
12.5°	2088.2	1930.5	1627.8	1337.9	1124.2	981.8	890.2	852.1	806.3	801.2	791.0
15°	2121.3	1930.5	1556.6	1228.5	1004.7	872.4	793.6	758.0	724.9	719.8	714.7
17.5°	2154.3	1925.4	1485.4	1126.8	905.5	785.9	717.3	689.3	663.8	661.3	656.2
20°	2184.8	1922.9	1414.2	1040.3	829.2	714.7	661.3	635.9	615.5	615.5	613.0
22.5°	2215.4	1917.8	1345.5	958.9	763.0	661.3	615.5	587.5	572.3	572.3	569.7
25°	2261.2	1917.8	1281.9	890.2	709.6	620.6	574.8	554.5	541.8	539.2	539.2
27.5°	2314.6	1933.0	1226.0	829.2	663.8	579.9	544.3	524.0	508.7	503.6	506.2
30°	2373.1	1945.8	1175.1	775.8	620.6	549.4	511.2	490.9	475.6	470.5	473.1
32.5°	2431.6	1961.0	1129.3	727.4	577.4	521.4	483.3	460.4	445.1	442.6	442.6
35°	2495.2	1976.3	1083.5	686.7	541.8	493.4	457.8	432.4	422.2	417.1	419.7
37.5°	2558.7	2001.7	1040.3	648.6	516.3	468.0	434.9	409.5	401.9	399.3	399.3
40°	2635.0	2039.9	1022.5	623.2	493.4	445.1	417.1	391.7	384.1	384.1	384.1
42.5°	2698.6	2070.4	1007.2	595.2	475.6	424.8	399.3	379.0	373.9	371.3	373.9
45°	2762.2	2098.4	986.9	569.7	452.7	404.4	384.1	363.7	358.6	358.6	358.6
47.5°	2825.8	2113.6	958.9	544.3	432.4	386.6	368.8	351.0	345.9	345.9	345.9
50°	2876.7	2126.3	918.2	516.3	409.5	371.3	353.5	335.7	330.7	330.7	330.7
52.5°	2927.5	2128.9	875.0	483.3	386.6	353.5	338.3	320.5	315.4	312.8	312.8
55°	2973.3	2126.3	824.1	445.1	361.2	333.2	320.5	305.2	295.0	284.9	290.0
57.5°	3006.4	2123.8	765.6	407.0	335.7	312.8	307.8	287.4	267.1	241.6	246.7
60°	2993.7	2095.8	702.0	358.6	307.8	292.5	292.5	264.5	228.9	216.2	218.7
62.5°	2912.3	2017.0	635.9	307.8	279.8	272.2	269.6	239.1	211.1	198.4	200.9
65°	2668.1	1818.6	539.2	262.0	251.8	249.3	249.3	221.3	195.8	180.6	183.1
67.5°	2296.8	1526.1	440.0	221.3	223.8	228.9	228.9	203.5	178.0	162.8	165.3
70°	1841.5	1192.9	351.0	190.8	193.3	200.9	206.0	183.1	160.2	145.0	145.0
72.5°	1386.2	905.5	282.3	160.2	173.0	173.0	180.6	162.8	139.9	124.6	127.2
75°	1004.7	648.6	223.8	134.8	150.1	147.5	147.5	137.3	119.5	109.4	109.4
77.5°	475.6	340.8	178.0	96.7	117.0	114.5	117.0	109.4	101.7	91.6	94.1
80°	234.0	167.9	114.5	68.7	81.4	83.9	91.6	86.5	83.9	76.3	76.3
82.5°	111.9	66.1	53.4	48.3	56.0	58.5	63.6	63.6	66.1	61.0	61.0
85°	30.5	17.8	22.9	30.5	35.6	38.2	43.2	45.8	45.8	43.2	45.8
87.5°	7.6	7.6	10.2	15.3	17.8	20.3	22.9	22.9	10.2	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)