

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: P836812

Luminaire Tested: **ARCH3-80-722-U-T2U-HSS**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836812
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-25)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-80-722-U-T2U-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2200K, 650mA LIGHTSQUARE WITH 40 LEDS AND TYPE II U OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7887 lumens
Efficiency: N/A
Efficacy: 96.3 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 81.9
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

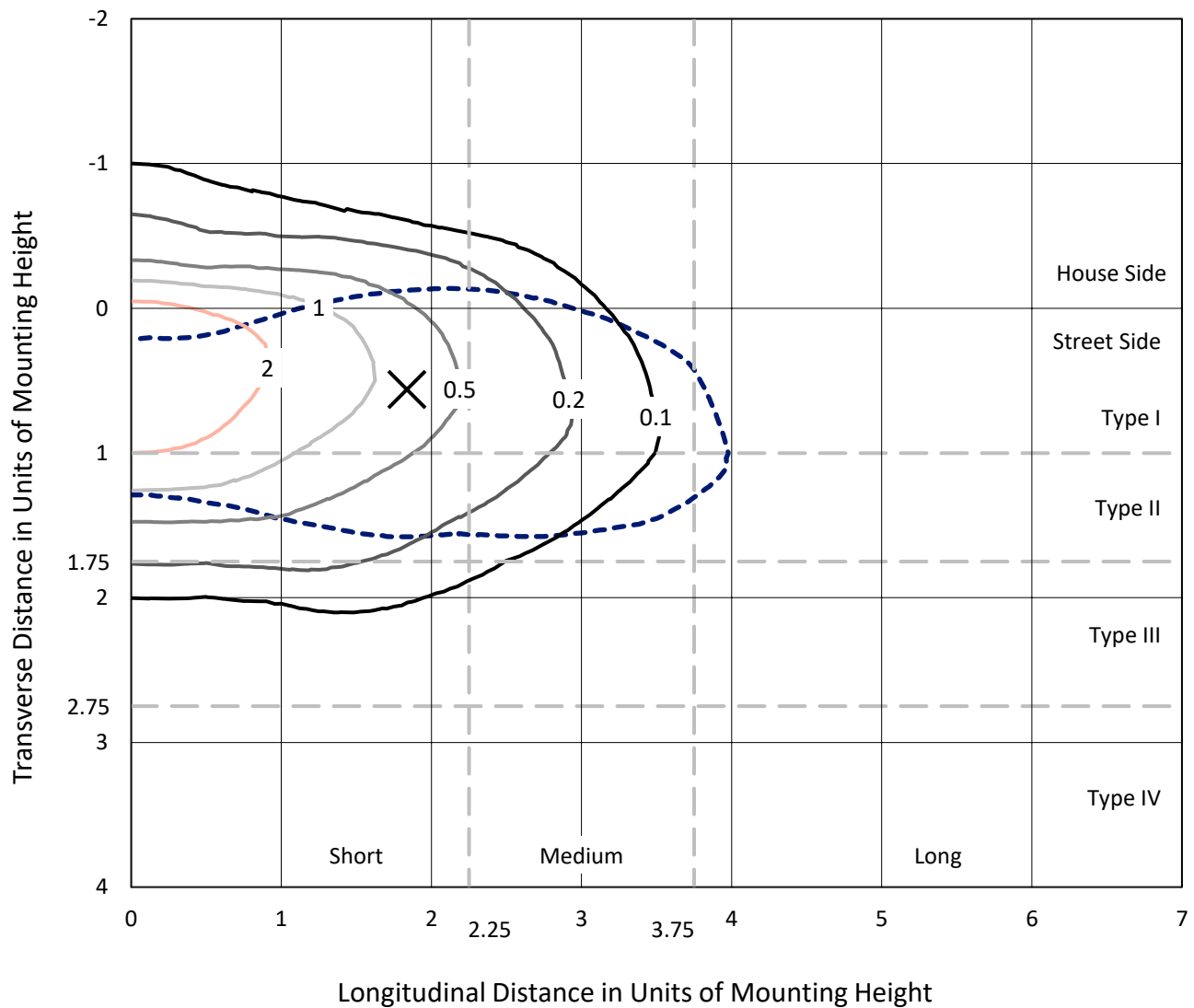


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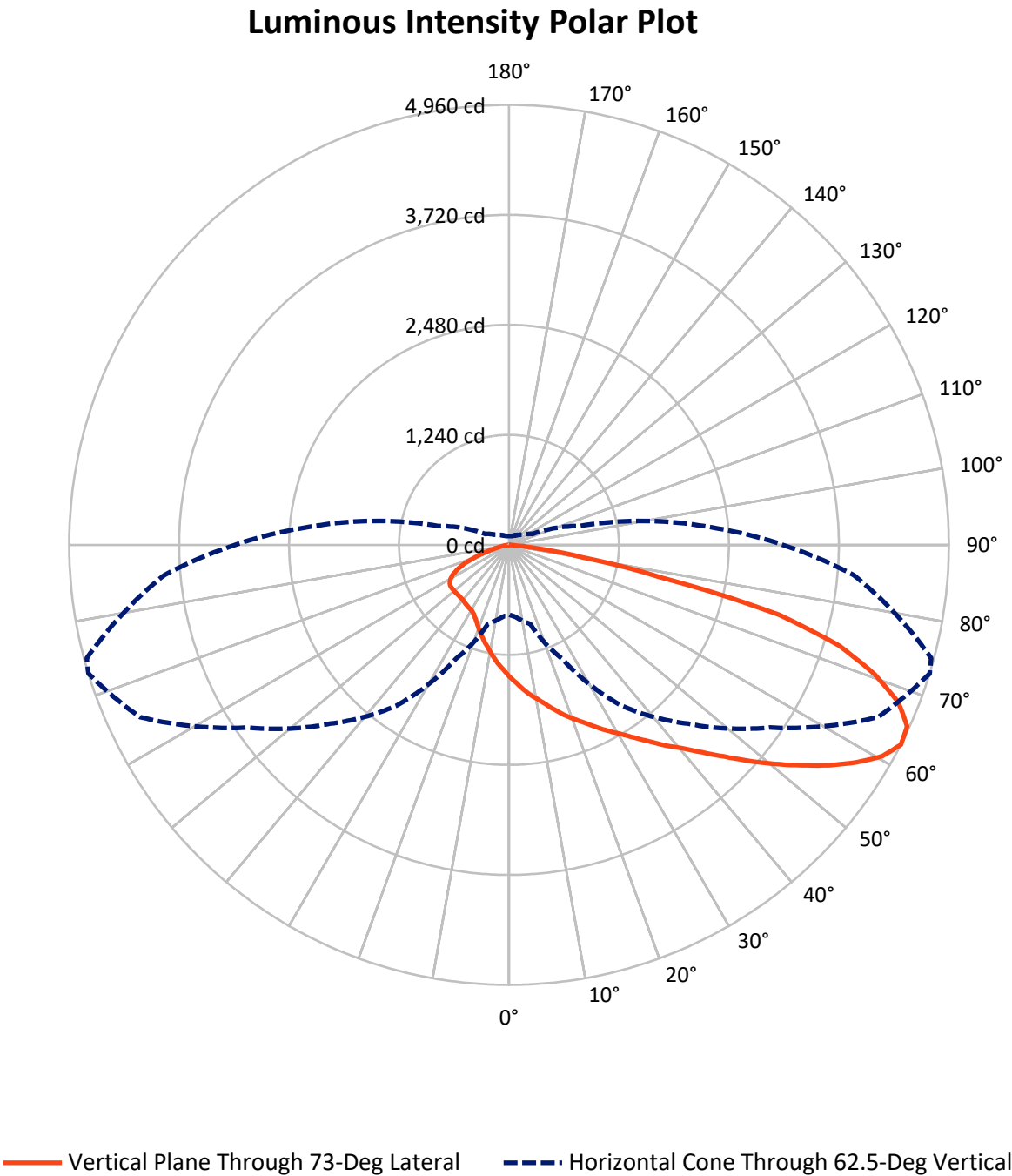
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 fc
Type II - Short - N/A

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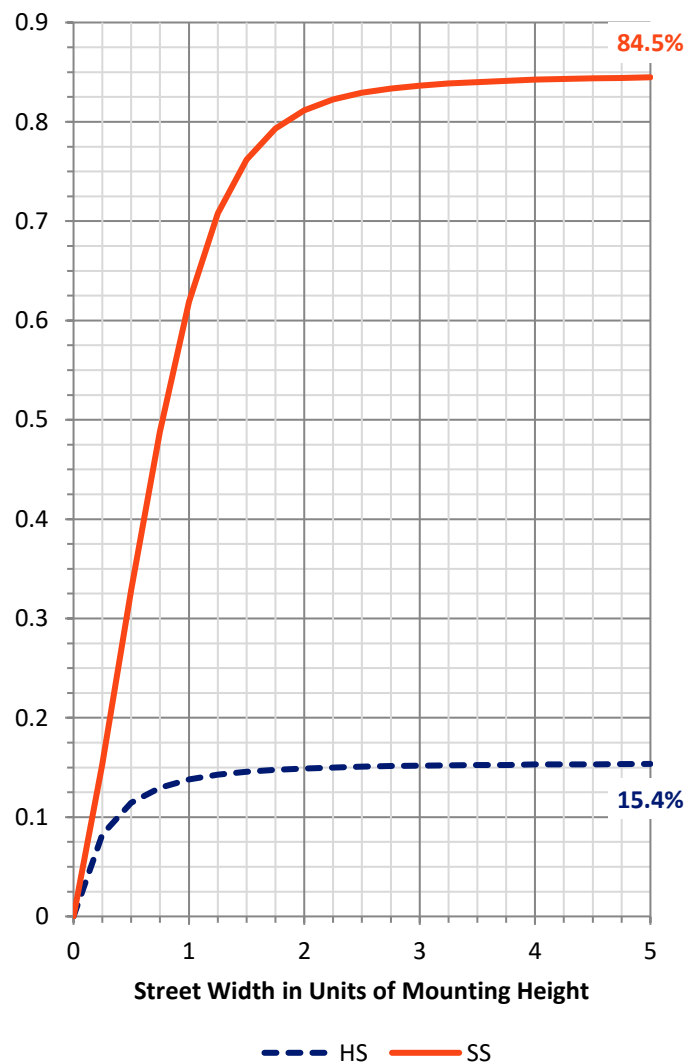
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1222.6	0.0	1222.6
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	6664.4	0.0	6664.4
	% Fixture	84.5	0.0	84.5
Total	Lumens	7887.0	0.0	7887.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.3	1.8
10°-20°	435.4	5.5
20°-30°	724.7	9.2
30°-40°	1093.4	13.9
40°-50°	1528.3	19.4
50°-60°	1688.1	21.4
60°-70°	1470.5	18.6
70°-80°	742.8	9.4
80°-90°	59.6	0.8
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°	7887.0	100.0
0°-180°	7887.0	100.0

Coefficient of Utilization



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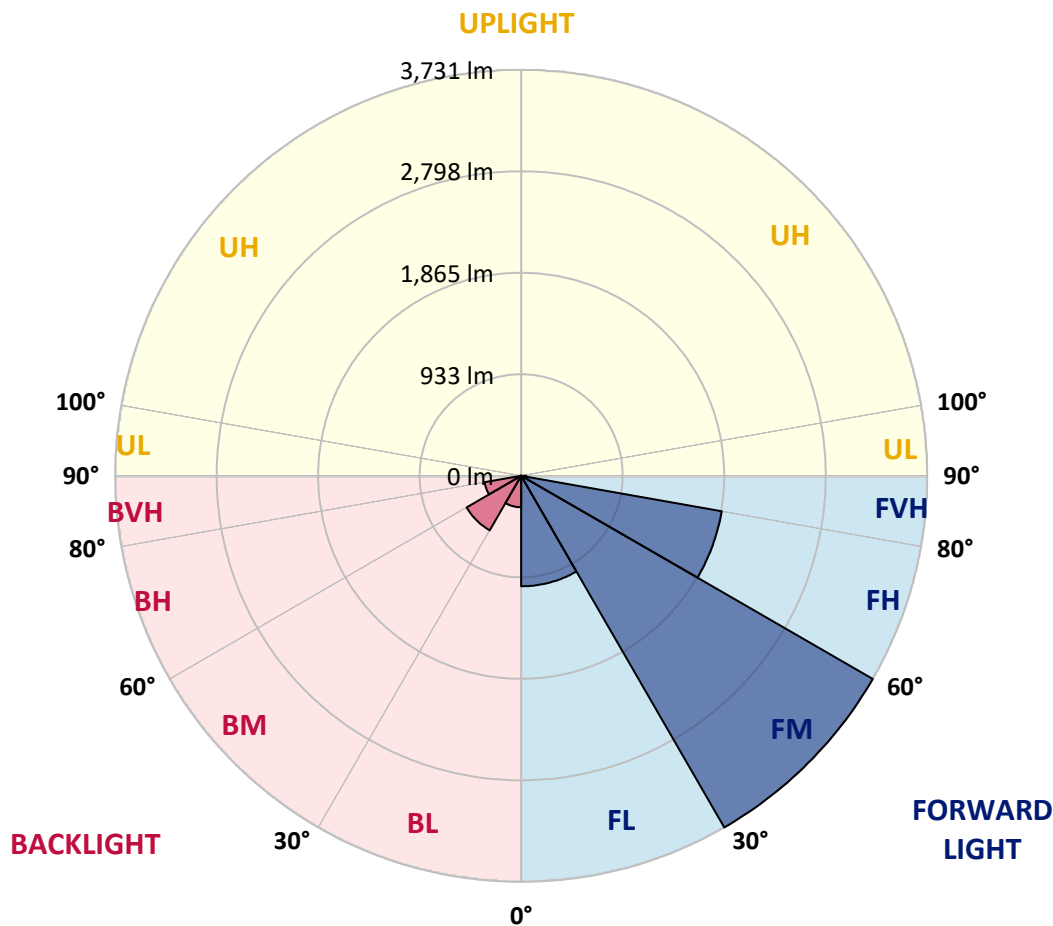
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1015.3	12.9			
FM	(30°-60°)	3730.8	47.3			
FH	(60°-80°)	1872.1	23.7			G2/5000
FVH	(80°-90°)	46.1	0.6			G1/100
BL	(0°-30°)	289.0	3.7	B1/500		
BM	(30°-60°)	578.9	7.3	B1/1000		
BH	(60°-80°)	341.2	4.3	B1/500		G1/500
BVH	(80°-90°)	13.5	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 II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	73°	75°	85°
0°	1493.4	1493.4	1493.4	1493.4	1493.4	1493.4	1493.4	1493.4	1493.4	1493.4	1493.4
2.5°	1699.6	1718.6	1708.2	1715.1	1680.7	1658.4	1632.6	1582.8	1555.3	1551.9	1519.2
5°	1948.8	1969.5	1952.3	1947.1	1887.0	1835.4	1777.0	1689.3	1630.9	1620.6	1548.4
7.5°	2198.0	2216.9	2196.3	2180.8	2100.1	2009.0	1923.1	1794.2	1703.1	1685.9	1572.5
10°	2373.3	2390.5	2375.0	2359.6	2275.4	2182.6	2060.5	1892.1	1768.4	1740.9	1587.9
12.5°	2505.6	2516.0	2509.1	2495.3	2416.3	2316.6	2199.7	2002.1	1842.3	1807.9	1612.0
15°	2613.9	2631.1	2622.5	2612.2	2536.6	2436.9	2325.2	2117.3	1928.2	1885.2	1648.1
17.5°	2686.1	2698.1	2699.8	2699.8	2632.8	2534.9	2426.6	2222.1	2014.1	1959.1	1682.5
20°	2718.7	2732.5	2741.1	2754.8	2699.8	2615.6	2505.6	2311.5	2094.9	2033.0	1715.1
22.5°	2734.2	2746.2	2768.6	2799.5	2754.8	2684.4	2583.0	2393.9	2175.7	2110.4	1752.9
25°	2746.2	2761.7	2794.4	2852.8	2821.9	2761.7	2674.1	2488.5	2271.9	2204.9	1807.9
27.5°	2778.9	2797.8	2828.7	2899.2	2861.4	2832.2	2770.3	2589.9	2373.3	2304.6	1874.9
30°	2892.3	2907.8	2906.1	2950.8	2904.3	2895.8	2852.8	2687.8	2471.3	2402.5	1954.0
32.5°	3098.5	3114.0	3076.2	3059.0	2957.6	2959.3	2942.2	2792.6	2588.1	2517.7	2045.1
35°	3320.2	3337.4	3287.6	3258.4	3088.2	3038.4	3047.0	2923.3	2718.7	2648.3	2158.5
37.5°	3517.9	3538.5	3495.5	3452.6	3280.7	3165.6	3163.9	3069.3	2868.3	2796.1	2284.0
40°	3626.1	3650.2	3676.0	3651.9	3471.5	3344.3	3289.3	3218.8	3016.1	2942.2	2419.7
42.5°	3677.7	3744.7	3791.1	3775.7	3627.9	3499.0	3433.7	3375.2	3196.5	3124.3	2581.3
45°	3533.3	3535.1	3633.0	3717.2	3689.7	3603.8	3591.8	3550.5	3402.7	3334.0	2763.4
47.5°	3352.9	3339.1	3407.9	3557.4	3634.7	3657.1	3727.5	3744.7	3638.2	3569.4	2949.0
50°	2919.8	2928.4	3151.8	3366.6	3517.9	3662.2	3823.8	3944.1	3880.5	3815.2	3144.9
52.5°	2375.0	2395.7	2651.7	3124.3	3363.2	3610.7	3880.5	4143.4	4128.0	4066.1	3340.9
55°	1904.2	1936.8	2208.3	2720.5	3165.6	3495.5	3904.5	4325.6	4384.0	4327.3	3533.3
57.5°	1455.6	1490.0	1718.6	2244.4	2912.9	3308.2	3887.4	4485.4	4622.9	4586.8	3710.3
60°	1096.4	1130.8	1276.9	1819.9	2596.7	3098.5	3801.4	4590.2	4837.7	4799.9	3839.2
62.5°	785.4	812.9	921.1	1416.1	2211.8	2849.4	3590.1	4592.0	4959.7	4928.8	3901.1
65°	565.4	565.4	653.0	1010.5	1850.9	2550.3	3270.4	4380.6	4934.0	4925.4	3858.1
67.5°	407.3	410.7	481.2	706.3	1476.2	2187.7	2856.2	4004.2	4734.6	4777.6	3703.5
70°	288.7	297.3	330.0	493.2	1115.3	1727.1	2412.8	3511.0	4375.4	4451.0	3404.4
72.5°	223.4	228.6	250.9	343.7	814.6	1283.8	1923.1	2961.1	3896.0	3981.9	2997.2
75°	171.9	177.0	194.2	252.6	584.3	900.5	1366.2	2297.7	3141.5	3294.5	2407.7
77.5°	125.5	132.3	144.4	183.9	340.3	572.3	828.3	1292.3	1734.0	1806.2	1261.4
80°	58.4	67.0	84.2	118.6	183.9	269.8	293.9	498.4	833.5	871.3	684.0
82.5°	32.7	41.2	48.1	72.2	92.8	96.2	99.7	125.5	314.5	347.1	287.0
85°	15.5	20.6	22.3	30.9	30.9	27.5	32.7	24.1	51.6	61.9	60.1
87.5°	0.0	1.7	3.4	8.6	6.9	5.2	5.2	5.2	5.2	6.9	5.2
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°	1493.4	1493.4	1493.4	1493.4	1493.4	1493.4	1493.4	1493.4	1493.4	1493.4	1493.4
2.5°	1503.7	1481.4	1429.8	1385.2	1355.9	1330.2	1295.8	1280.3	1252.8	1258.0	1242.5
5°	1512.3	1471.1	1380.0	1295.8	1233.9	1178.9	1118.8	1084.4	1046.6	1043.2	1031.1
7.5°	1517.5	1453.9	1323.3	1204.7	1110.2	1026.0	945.2	900.5	854.1	843.8	833.5
10°	1512.3	1428.1	1264.9	1110.2	984.7	879.9	788.8	732.1	684.0	672.0	661.6
12.5°	1517.5	1414.4	1209.9	1022.5	873.0	754.4	651.3	592.9	548.2	536.2	529.3
15°	1529.5	1405.8	1163.5	943.5	773.3	641.0	539.6	489.8	453.7	441.7	438.2
17.5°	1539.8	1397.2	1113.6	866.1	673.7	541.3	453.7	412.5	381.5	369.5	366.1
20°	1553.6	1385.2	1063.8	792.3	586.0	462.3	385.0	348.9	324.8	316.2	314.5
22.5°	1565.6	1376.6	1017.4	718.4	505.3	398.7	333.4	304.2	287.0	278.4	278.4
25°	1596.5	1380.0	977.9	649.6	445.1	348.9	293.9	271.5	257.8	252.6	252.6
27.5°	1632.6	1393.7	946.9	591.2	393.5	311.1	266.4	247.5	240.6	233.7	235.4
30°	1684.2	1421.2	926.3	543.1	355.7	281.8	244.0	230.3	223.4	221.7	221.7
32.5°	1749.5	1465.9	924.6	512.1	328.2	259.5	228.6	216.5	213.1	211.4	211.4
35°	1826.8	1505.5	914.3	498.4	311.1	244.0	216.5	207.9	206.2	206.2	206.2
37.5°	1919.6	1570.8	907.4	479.5	302.5	235.4	207.9	201.1	201.1	201.1	201.1
40°	2015.9	1624.0	897.1	462.3	299.0	230.3	202.8	194.2	194.2	194.2	194.2
42.5°	2131.0	1701.4	893.6	453.7	293.9	226.8	195.9	185.6	187.3	187.3	189.0
45°	2270.2	1789.0	891.9	445.1	292.2	223.4	189.0	177.0	178.7	177.0	177.0
47.5°	2411.1	1890.4	897.1	439.9	290.4	220.0	183.9	168.4	168.4	166.7	166.7
50°	2558.9	1983.2	900.5	434.8	287.0	213.1	175.3	161.5	158.1	154.7	156.4
52.5°	2698.1	2069.1	902.2	426.2	276.7	202.8	168.4	153.0	147.8	142.6	144.4
55°	2837.3	2151.6	905.7	415.9	262.9	192.5	159.8	144.4	137.5	130.6	130.6
57.5°	2962.8	2223.8	897.1	390.1	247.5	182.2	151.2	134.0	123.7	116.9	116.9
60°	3048.7	2275.4	871.3	352.3	226.8	170.1	142.6	123.7	111.7	106.6	106.6
62.5°	3090.0	2284.0	824.9	290.4	201.1	158.1	132.3	113.4	103.1	99.7	99.7
65°	3050.4	2246.1	752.7	218.3	173.6	144.4	122.0	104.8	94.5	85.9	85.9
67.5°	2912.9	2139.6	653.0	165.0	147.8	130.6	111.7	96.2	84.2	77.3	77.3
70°	2636.3	1917.9	505.3	132.3	125.5	113.4	101.4	85.9	75.6	67.0	67.0
72.5°	2273.6	1625.7	355.7	106.6	106.6	96.2	85.9	75.6	65.3	58.4	58.4
75°	1744.3	1203.0	238.9	85.9	87.6	80.8	70.5	61.9	55.0	49.8	49.8
77.5°	952.1	594.6	146.1	63.6	65.3	61.9	55.0	49.8	46.4	41.2	41.2
80°	462.3	261.2	84.2	44.7	46.4	44.7	41.2	36.1	36.1	32.7	32.7
82.5°	194.2	98.0	44.7	30.9	30.9	27.5	25.8	25.8	25.8	24.1	24.1
85°	48.1	18.9	18.9	17.2	17.2	17.2	15.5	15.5	15.5	12.0	13.7
87.5°	6.9	6.9	6.9	6.9	6.9	6.9	5.2	1.7	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)