

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: P799364

Luminaire Tested: **ARCH2-110-727-U-T2U-HSS**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P799364
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-25)
Test Lab: INNOVATION CENTER
Issue Date: 4/4/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH2-110-727-U-T2U-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE II U
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8464 lumens
Efficiency: N/A
Efficacy: 77.3 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 109.5
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



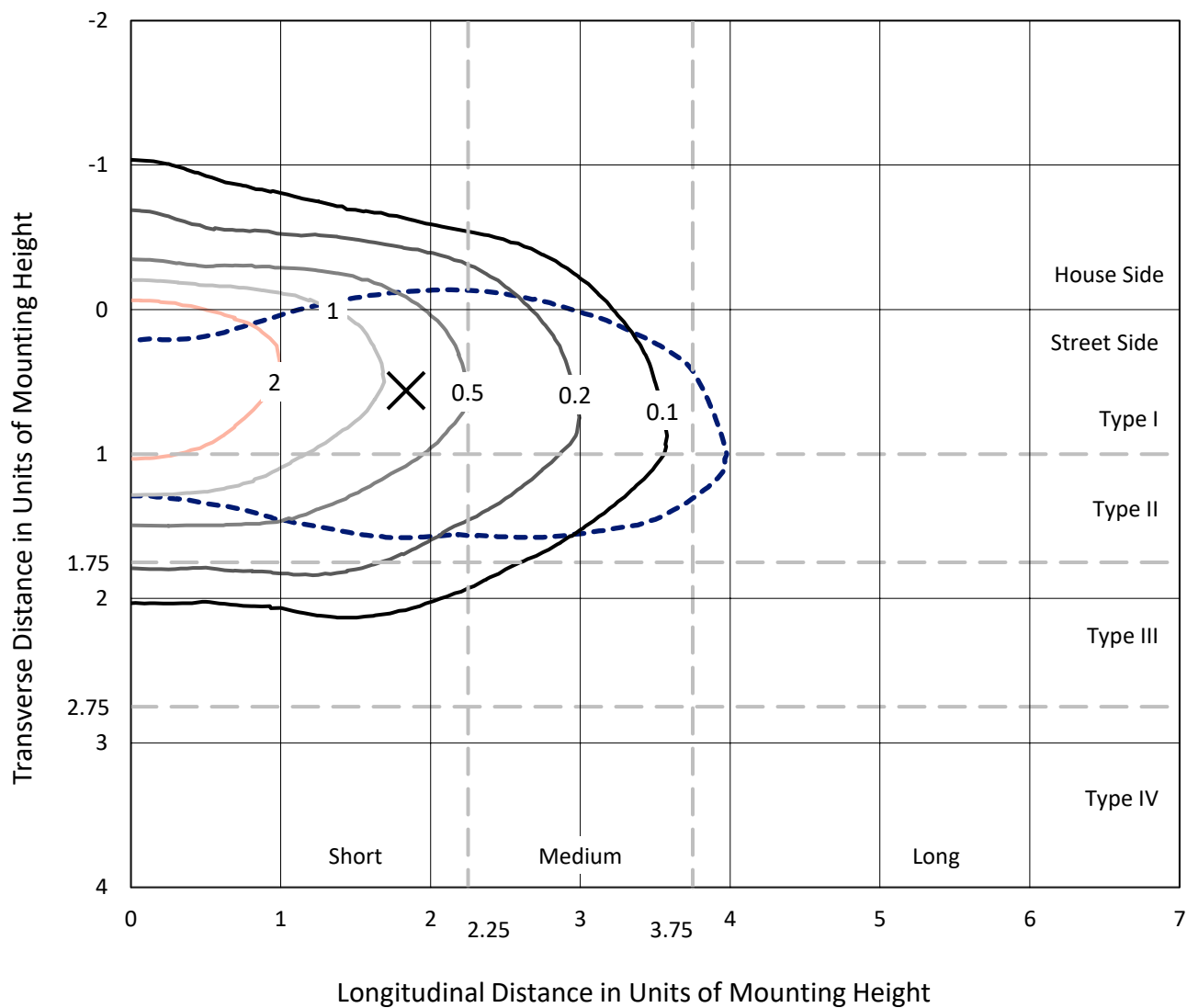
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

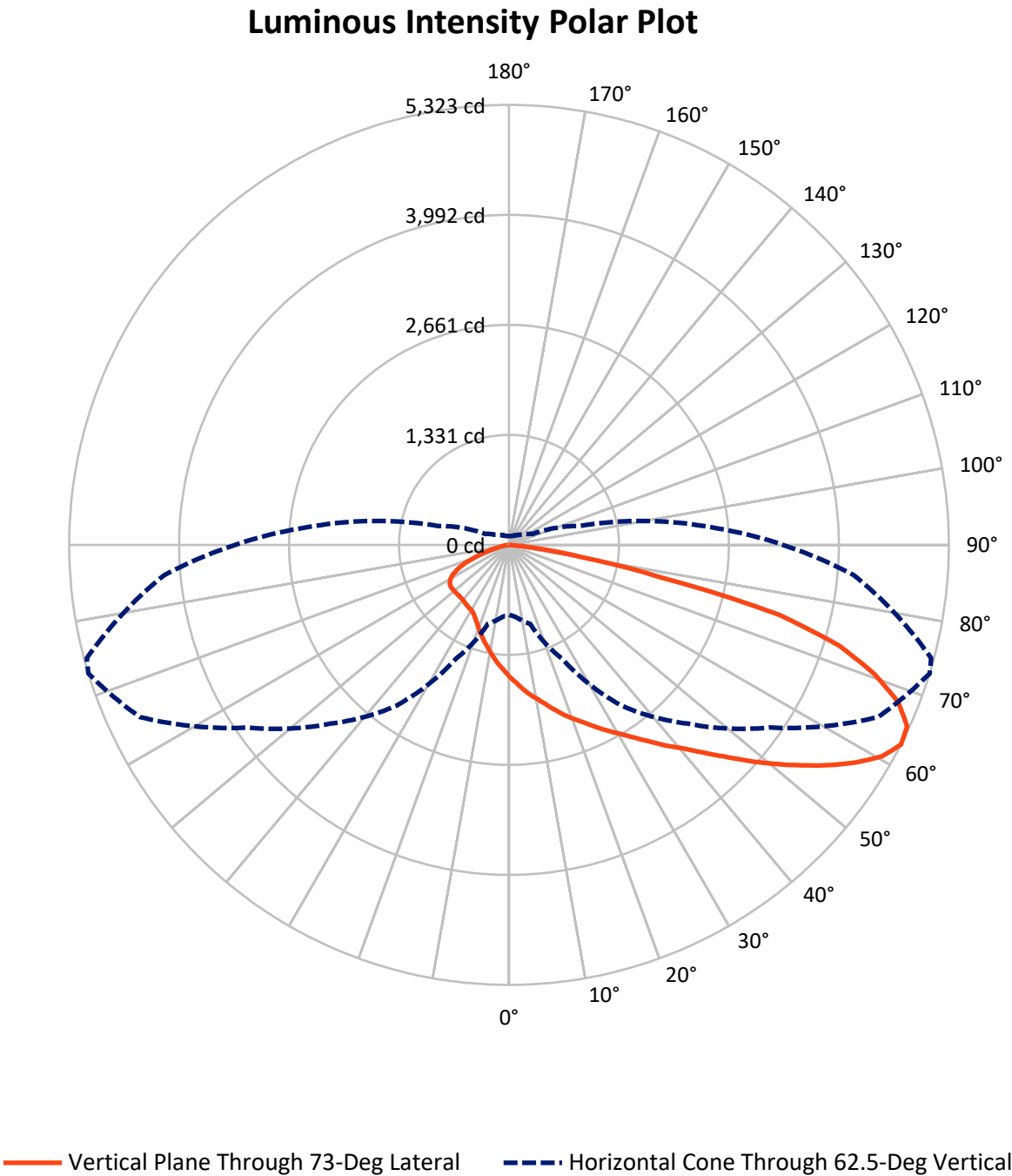
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 fc

Type II - Short - N/A

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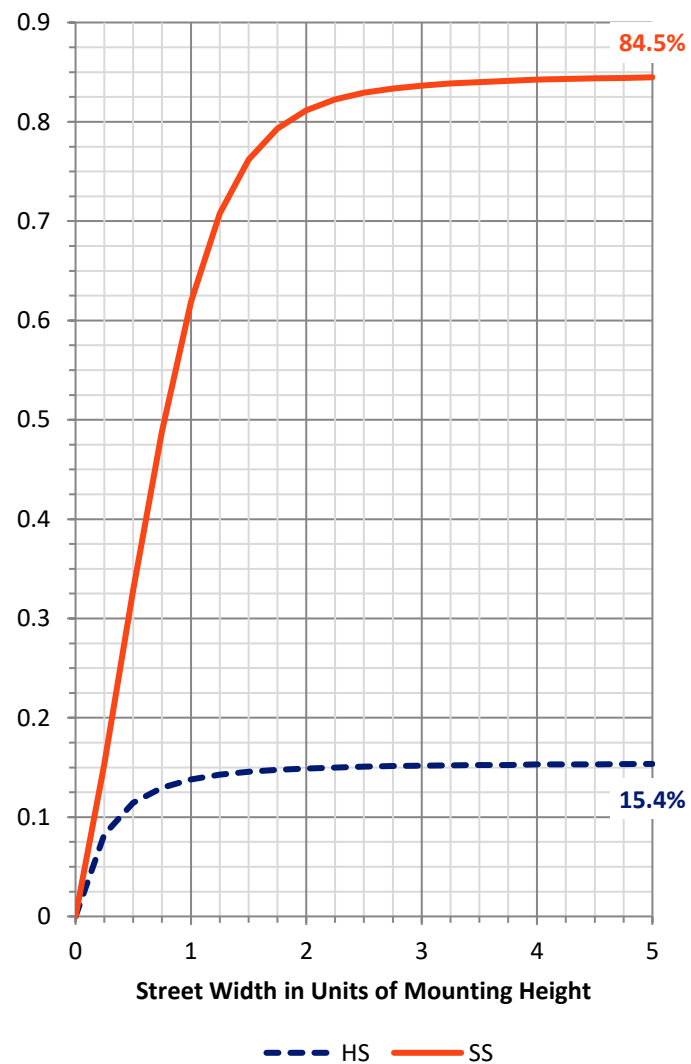
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1312.0	0.0	1312.0
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	7152.0	0.0	7152.0
	% Fixture	84.5	0.0	84.5
Total	Lumens	8464.0	0.0	8464.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.8	1.8
10°-20°	467.2	5.5
20°-30°	777.7	9.2
30°-40°	1173.4	13.9
40°-50°	1640.1	19.4
50°-60°	1811.6	21.4
60°-70°	1578.1	18.6
70°-80°	797.2	9.4
80°-90°	64.0	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°	8464.0	100.0
0°-180°	8464.0	100.0

Coefficient of Utilization



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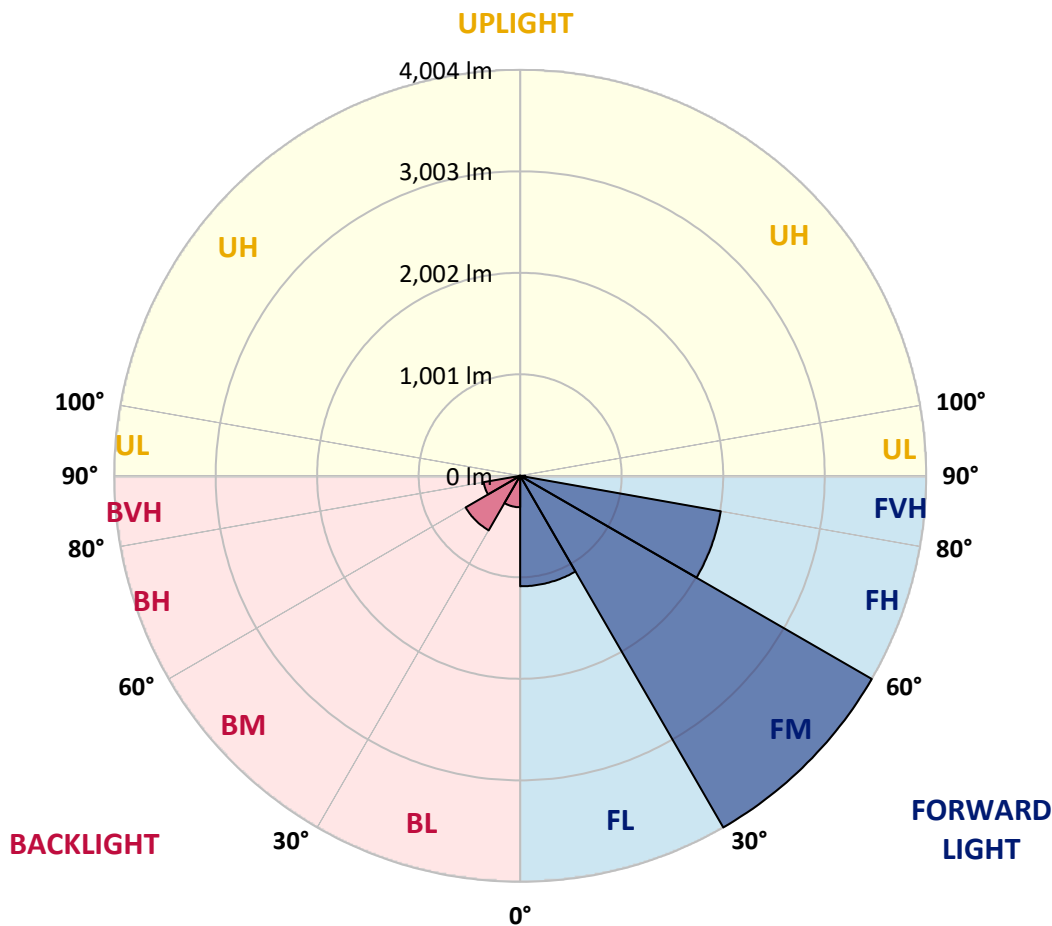
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1089.6	12.9			
FM	(30°-60°)	4003.8	47.3			
FH	(60°-80°)	2009.1	23.7			G2/5000
FVH	(80°-90°)	49.5	0.6			G1/100
BL	(0°-30°)	310.1	3.7	B1/500		
BM	(30°-60°)	621.3	7.3	B1/1000		
BH	(60°-80°)	366.2	4.3	B1/500		G1/500
BVH	(80°-90°)	14.5	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°	1602.7	1602.7	1602.7	1602.7	1602.7	1602.7	1602.7	1602.7	1602.7	1602.7	1602.7
2.5°	1824.0	1844.3	1833.2	1840.6	1803.7	1779.7	1752.1	1698.6	1669.1	1665.4	1630.3
5°	2091.4	2113.5	2095.1	2089.6	2025.0	1969.7	1907.0	1812.9	1750.2	1739.2	1661.7
7.5°	2358.8	2379.1	2357.0	2340.4	2253.7	2156.0	2063.7	1925.4	1827.7	1809.2	1687.5
10°	2546.9	2565.4	2548.8	2532.2	2441.8	2342.2	2211.3	2030.5	1897.8	1868.3	1704.1
12.5°	2689.0	2700.0	2692.6	2677.9	2593.1	2486.1	2360.7	2148.6	1977.1	1940.2	1729.9
15°	2805.1	2823.6	2814.4	2803.3	2722.2	2615.2	2495.3	2272.1	2069.3	2023.2	1768.7
17.5°	2882.6	2895.5	2897.4	2897.4	2825.4	2720.3	2604.1	2384.6	2161.5	2102.5	1805.5
20°	2917.6	2932.4	2941.6	2956.4	2897.4	2807.0	2689.0	2480.6	2248.2	2181.8	1840.6
22.5°	2934.2	2947.2	2971.1	3004.3	2956.4	2880.8	2771.9	2569.1	2334.9	2264.8	1881.2
25°	2947.2	2963.8	2998.8	3061.5	3028.3	2963.8	2869.7	2670.5	2438.1	2366.2	1940.2
27.5°	2982.2	3002.5	3035.7	3111.3	3070.7	3039.4	2973.0	2779.3	2546.9	2473.2	2012.1
30°	3103.9	3120.5	3118.7	3166.6	3116.8	3107.6	3061.5	2884.4	2652.1	2578.3	2096.9
32.5°	3325.2	3341.8	3301.3	3282.8	3174.0	3175.8	3157.4	2996.9	2777.5	2701.9	2194.7
35°	3563.1	3581.6	3528.1	3496.7	3314.2	3260.7	3269.9	3137.1	2917.6	2842.0	2316.4
37.5°	3775.2	3797.4	3751.3	3705.2	3520.7	3397.2	3395.3	3293.9	3078.1	3000.6	2451.0
40°	3891.4	3917.2	3944.9	3919.1	3725.4	3589.0	3529.9	3454.3	3236.7	3157.4	2596.7
42.5°	3946.8	4018.7	4068.5	4051.9	3893.3	3754.9	3684.9	3622.2	3430.4	3352.9	2770.1
45°	3791.8	3793.7	3898.8	3989.2	3959.7	3867.4	3854.5	3810.3	3651.7	3577.9	2965.6
47.5°	3598.2	3583.4	3657.2	3817.7	3900.6	3924.6	4000.2	4018.7	3904.3	3830.6	3164.8
50°	3133.4	3142.6	3382.4	3612.9	3775.2	3930.2	4103.5	4232.6	4164.4	4094.3	3375.0
52.5°	2548.8	2570.9	2845.7	3352.9	3609.2	3874.8	4164.4	4446.6	4430.0	4363.6	3585.3
55°	2043.5	2078.5	2369.9	2919.5	3397.2	3751.3	4190.2	4642.0	4704.7	4643.9	3791.8
57.5°	1562.1	1599.0	1844.3	2408.6	3126.0	3550.2	4171.8	4813.6	4961.1	4922.4	3981.8
60°	1176.6	1213.5	1370.3	1953.1	2786.7	3325.2	4079.5	4926.1	5191.6	5151.1	4120.1
62.5°	842.8	872.3	988.5	1519.7	2373.6	3057.8	3852.7	4927.9	5322.6	5289.4	4186.5
65°	606.8	606.8	700.8	1084.4	1986.3	2736.9	3509.7	4701.1	5294.9	5285.7	4140.4
67.5°	437.1	440.8	516.4	758.0	1584.2	2347.8	3065.2	4297.2	5081.0	5127.1	3974.4
70°	309.8	319.1	354.1	529.3	1196.9	1853.5	2589.4	3767.9	4695.5	4776.7	3653.5
72.5°	239.8	245.3	269.3	368.9	874.2	1377.7	2063.7	3177.7	4181.0	4273.2	3216.4
75°	184.4	190.0	208.4	271.1	627.1	966.4	1466.2	2465.8	3371.3	3535.5	2583.8
77.5°	134.6	142.0	154.9	197.3	365.2	614.1	888.9	1386.9	1860.9	1938.3	1353.7
80°	62.7	71.9	90.4	127.3	197.3	289.6	315.4	534.8	894.5	935.0	734.0
82.5°	35.0	44.3	51.6	77.5	99.6	103.3	107.0	134.6	337.5	372.5	308.0
85°	16.6	22.1	24.0	33.2	33.2	29.5	35.0	25.8	55.3	66.4	64.5
87.5°	0.0	1.8	3.7	9.2	7.4	5.5	5.5	5.5	5.5	7.4	5.5
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°	1602.7	1602.7	1602.7	1602.7	1602.7	1602.7	1602.7	1602.7	1602.7	1602.7	1602.7
2.5°	1613.7	1589.8	1534.4	1486.5	1455.1	1427.5	1390.6	1374.0	1344.5	1350.0	1333.4
5°	1623.0	1578.7	1481.0	1390.6	1324.2	1265.2	1200.6	1163.7	1123.2	1119.5	1106.6
7.5°	1628.5	1560.3	1420.1	1292.8	1191.4	1101.0	1014.4	966.4	916.6	905.5	894.5
10°	1623.0	1532.6	1357.4	1191.4	1056.8	944.3	846.5	785.7	734.0	721.1	710.0
12.5°	1628.5	1517.8	1298.4	1097.3	936.9	809.6	699.0	636.3	588.3	575.4	568.0
15°	1641.4	1508.6	1248.6	1012.5	829.9	687.9	579.1	525.6	486.9	474.0	470.3
17.5°	1652.5	1499.4	1195.1	929.5	723.0	580.9	486.9	442.6	409.4	396.5	392.8
20°	1667.2	1486.5	1141.6	850.2	628.9	496.1	413.1	374.4	348.6	339.3	337.5
22.5°	1680.1	1477.3	1091.8	770.9	542.2	427.9	357.8	326.4	308.0	298.8	298.8
25°	1713.3	1481.0	1049.4	697.1	477.7	374.4	315.4	291.4	276.6	271.1	271.1
27.5°	1752.1	1495.7	1016.2	634.4	422.3	333.8	285.9	265.6	258.2	250.8	252.7
30°	1807.4	1525.2	994.1	582.8	381.8	302.5	261.9	247.1	239.8	237.9	237.9
32.5°	1877.5	1573.2	992.2	549.6	352.3	278.5	245.3	232.4	228.7	226.8	226.8
35°	1960.5	1615.6	981.2	534.8	333.8	261.9	232.4	223.2	221.3	221.3	221.3
37.5°	2060.1	1685.7	973.8	514.6	324.6	252.7	223.2	215.8	215.8	215.8	215.8
40°	2163.3	1742.8	962.7	496.1	320.9	247.1	217.6	208.4	208.4	208.4	208.4
42.5°	2286.9	1825.8	959.0	486.9	315.4	243.4	210.2	199.2	201.0	201.0	202.9
45°	2436.3	1919.9	957.2	477.7	313.5	239.8	202.9	190.0	191.8	190.0	190.0
47.5°	2587.5	2028.7	962.7	472.1	311.7	236.1	197.3	180.7	180.7	178.9	178.9
50°	2746.1	2128.3	966.4	466.6	308.0	228.7	188.1	173.4	169.7	166.0	167.8
52.5°	2895.5	2220.5	968.2	457.4	296.9	217.6	180.7	164.1	158.6	153.1	154.9
55°	3044.9	2309.0	971.9	446.3	282.2	206.6	171.5	154.9	147.5	140.2	140.2
57.5°	3179.5	2386.5	962.7	418.7	265.6	195.5	162.3	143.9	132.8	125.4	125.4
60°	3271.7	2441.8	935.0	378.1	243.4	182.6	153.1	132.8	119.9	114.3	114.3
62.5°	3316.0	2451.0	885.3	311.7	215.8	169.7	142.0	121.7	110.7	107.0	107.0
65°	3273.6	2410.5	807.8	234.2	186.3	154.9	130.9	112.5	101.4	92.2	92.2
67.5°	3126.0	2296.1	700.8	177.1	158.6	140.2	119.9	103.3	90.4	83.0	83.0
70°	2829.1	2058.2	542.2	142.0	134.6	121.7	108.8	92.2	81.1	71.9	71.9
72.5°	2440.0	1744.7	381.8	114.3	114.3	103.3	92.2	81.1	70.1	62.7	62.7
75°	1871.9	1291.0	256.4	92.2	94.1	86.7	75.6	66.4	59.0	53.5	53.5
77.5°	1021.7	638.1	156.8	68.2	70.1	66.4	59.0	53.5	49.8	44.3	44.3
80°	496.1	280.3	90.4	48.0	49.8	48.0	44.3	38.7	38.7	35.0	35.0
82.5°	208.4	105.1	48.0	33.2	33.2	29.5	27.7	27.7	27.7	25.8	25.8
85°	51.6	20.3	20.3	18.4	18.4	18.4	16.6	16.6	16.6	12.9	14.8
87.5°	7.4	7.4	7.4	7.4	7.4	7.4	5.5	1.8	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)