

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: P799288

Luminaire Tested: **ARCH2-100-740-U-T4W-HSS**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P799288
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-27)
Test Lab: INNOVATION CENTER
Issue Date: 4/4/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH2-100-740-U-T4W-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 760mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9186 lumens
Efficiency: N/A
Efficacy: 88.9 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 103.3
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

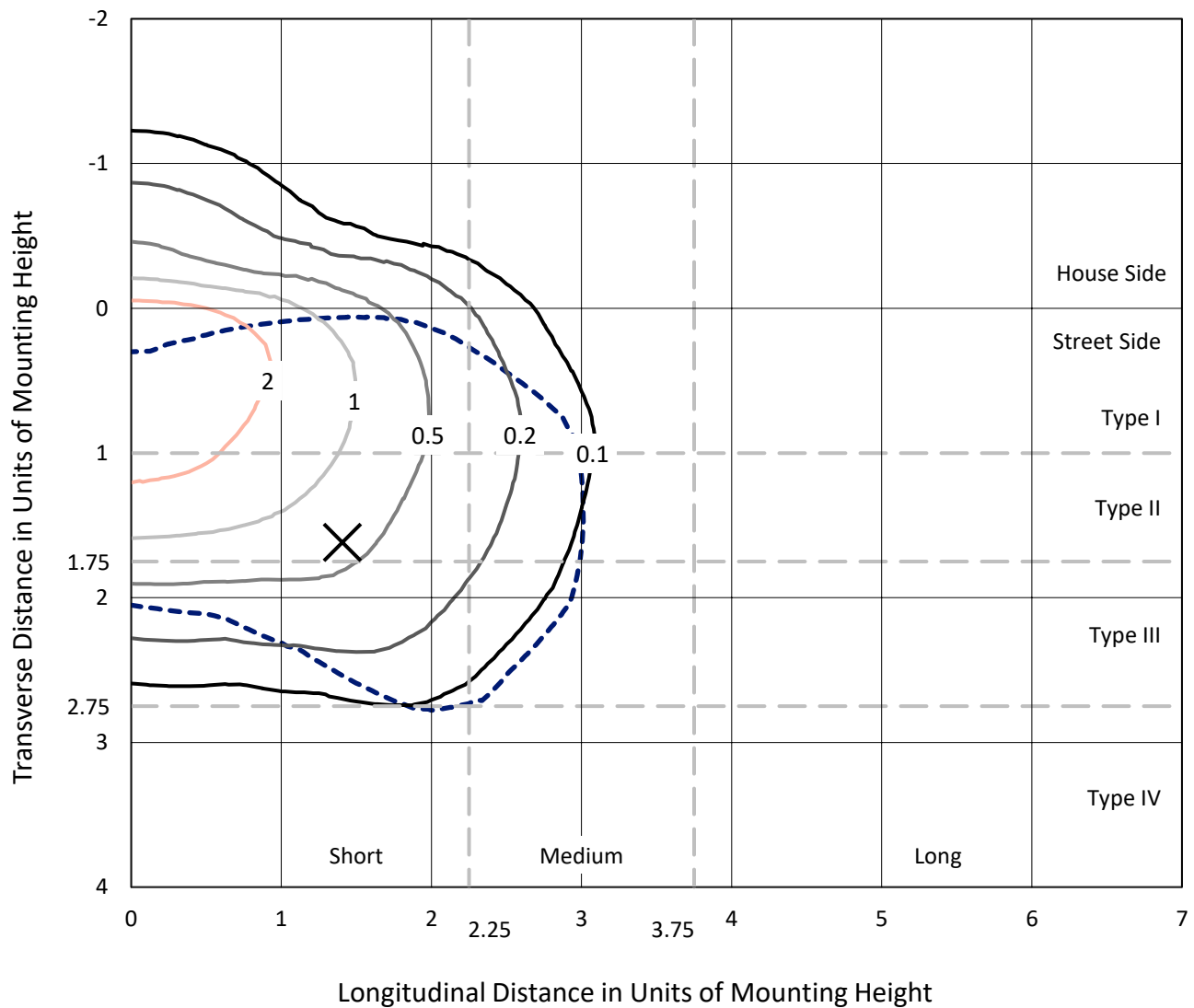


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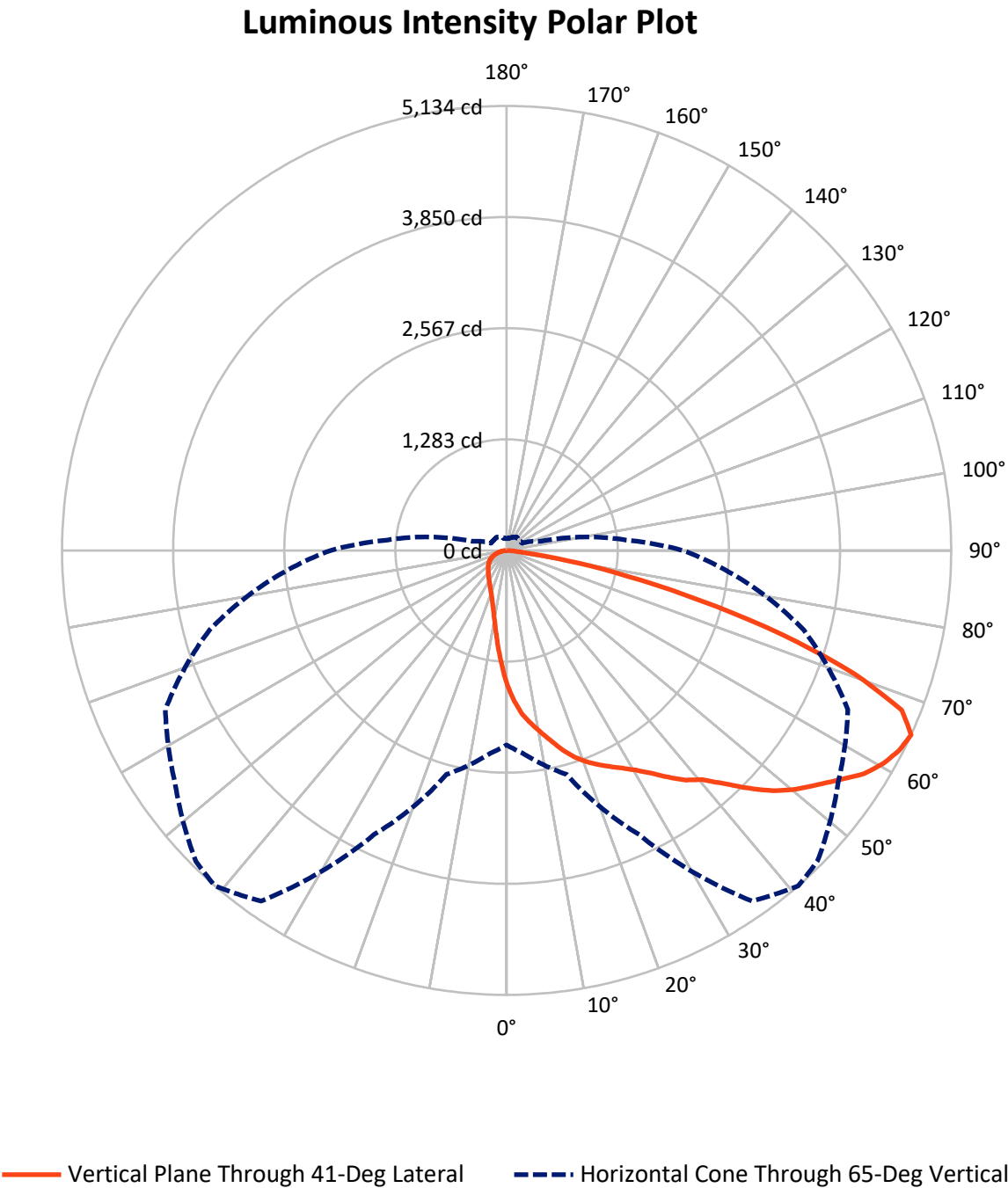
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 fc
Type III - Short - N/A

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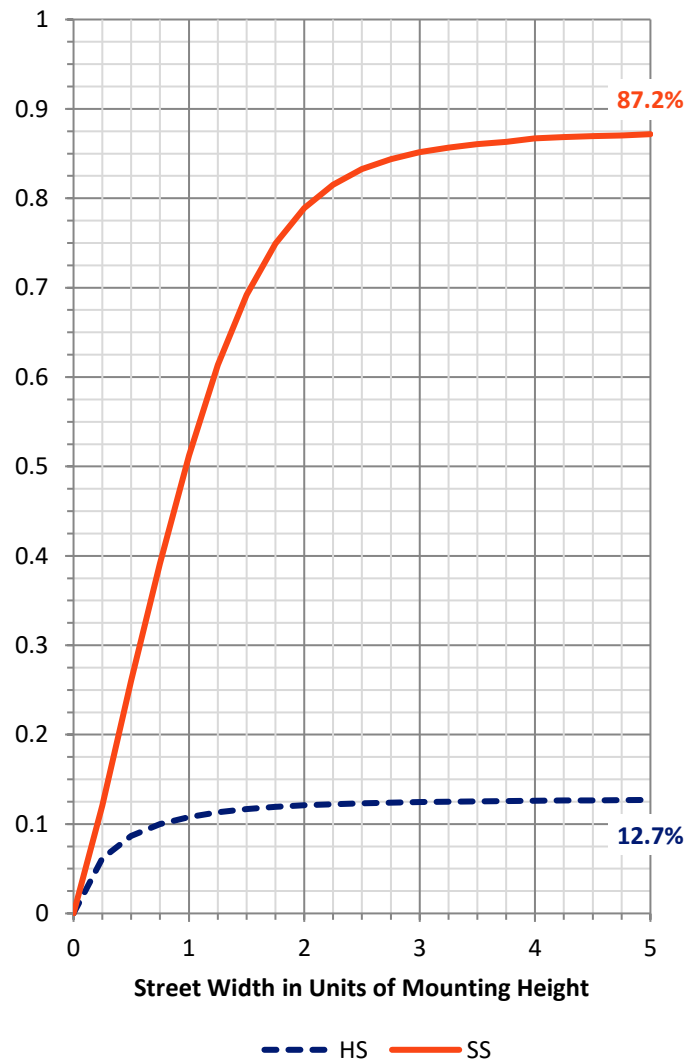
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1179.3	0.0	1179.3
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	8006.7	0.0	8006.7
	% Fixture	87.2	0.0	87.2
Total	Lumens	9186.0	0.0	9186.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.8	1.6
10°-20°	437.3	4.8
20°-30°	752.3	8.2
30°-40°	1141.0	12.4
40°-50°	1671.6	18.2
50°-60°	2110.9	23.0
60°-70°	1979.4	21.5
70°-80°	882.2	9.6
80°-90°	65.4	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°	9186.0	100.0
0°-180°	9186.0	100.0

Coefficient of Utilization



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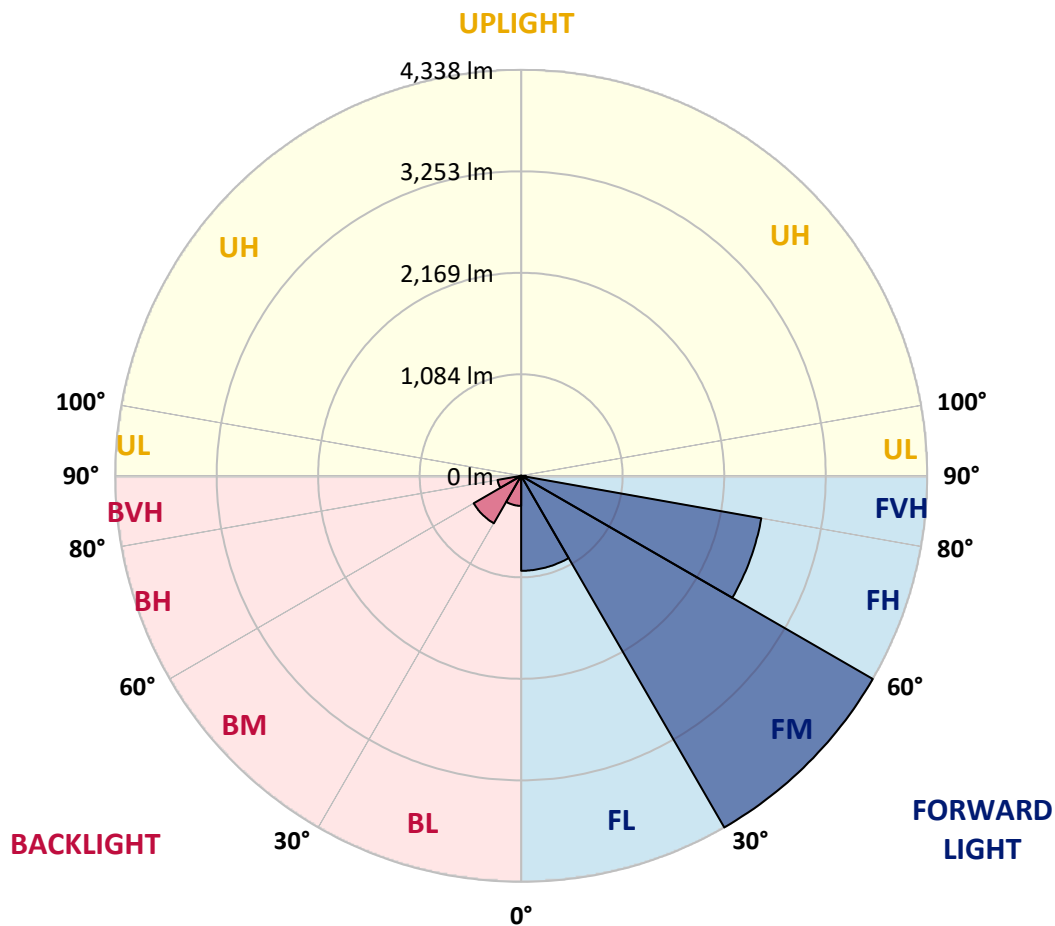
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1014.5	11.0			
FM	(30°-60°)	4338.0	47.2			
FH	(60°-80°)	2605.4	28.4			G2/5000
FVH	(80°-90°)	48.8	0.5			G1/100
BL	(0°-30°)	321.0	3.5	B1/500		
BM	(30°-60°)	585.6	6.4	B1/1000		
BH	(60°-80°)	256.2	2.8	B1/500		G1/500
BVH	(80°-90°)	16.5	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 III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	41°	45°	55°	65°	75°	85°
0°	1565.2	1565.2	1565.2	1565.2	1565.2	1565.2	1565.2	1565.2	1565.2	1565.2	1565.2
2.5°	1805.5	1799.6	1795.8	1774.5	1774.5	1745.4	1747.3	1720.2	1687.3	1635.0	1578.8
5°	1975.9	1968.2	1958.5	1937.2	1929.4	1900.4	1896.5	1857.8	1801.6	1710.5	1609.8
7.5°	2125.1	2117.3	2103.8	2072.8	2051.5	2016.6	2006.9	1956.6	1894.6	1782.2	1640.8
10°	2260.7	2254.9	2237.4	2198.7	2169.6	2127.0	2109.6	2041.8	1964.3	1840.3	1666.0
12.5°	2398.2	2390.5	2367.2	2334.3	2299.4	2249.1	2227.8	2140.6	2041.8	1904.3	1702.8
15°	2526.1	2514.5	2497.0	2462.2	2431.2	2382.7	2359.5	2256.8	2136.7	1975.9	1751.2
17.5°	2609.4	2599.7	2584.2	2564.8	2539.7	2502.8	2479.6	2378.9	2231.6	2045.7	1801.6
20°	2659.8	2655.9	2650.1	2638.4	2626.8	2601.6	2584.2	2489.3	2334.3	2113.5	1850.0
22.5°	2698.5	2694.6	2692.7	2692.7	2694.6	2684.9	2673.3	2592.0	2433.1	2185.1	1894.6
25°	2758.6	2756.6	2752.7	2748.9	2762.4	2764.4	2760.5	2704.3	2557.1	2280.1	1950.7
27.5°	2841.9	2836.0	2828.3	2824.4	2838.0	2847.7	2855.4	2816.7	2688.8	2376.9	2014.7
30°	2969.7	2952.3	2932.9	2919.3	2929.0	2944.5	2962.0	2938.7	2824.4	2497.0	2080.5
32.5°	3120.8	3099.5	3054.9	3029.8	3054.9	3066.6	3080.1	3068.5	2965.8	2626.8	2146.4
35°	3304.8	3279.7	3233.2	3196.4	3240.9	3215.7	3209.9	3198.3	3099.5	2754.7	2220.0
37.5°	3610.9	3574.1	3500.5	3419.1	3419.1	3364.9	3343.6	3308.7	3219.6	2869.0	2291.7
40°	3965.4	3917.0	3822.1	3702.0	3591.5	3479.2	3465.6	3440.4	3361.0	3000.7	2373.1
42.5°	4354.8	4261.8	4130.1	3984.8	3806.6	3678.7	3647.7	3576.0	3498.6	3134.4	2454.4
45°	4786.8	4593.1	4401.3	4327.7	4033.2	3917.0	3858.9	3729.1	3641.9	3273.8	2539.7
47.5°	4856.5	4705.4	4577.6	4565.9	4244.4	4147.5	4081.7	3895.7	3796.9	3423.0	2628.8
50°	4817.8	4726.7	4740.3	4693.8	4399.3	4335.4	4285.1	4073.9	3949.9	3566.4	2710.1
52.5°	4655.1	4705.4	4782.9	4697.7	4546.6	4494.3	4469.1	4265.7	4093.3	3698.1	2783.7
55°	4461.3	4496.2	4662.8	4767.4	4717.0	4670.6	4647.3	4488.5	4234.7	3808.5	2851.5
57.5°	4178.5	4163.0	4347.0	4755.8	4895.3	4868.1	4843.0	4707.4	4366.4	3887.9	2894.2
60°	3754.3	3721.3	3953.8	4523.3	4953.4	4996.0	4984.4	4852.7	4467.2	3886.0	2876.7
62.5°	3020.1	3101.4	3423.0	4143.6	4978.6	5087.1	5065.7	4864.3	4500.1	3773.6	2766.3
65°	2245.2	2361.4	2677.2	3620.6	4943.7	5133.5	5075.4	4674.4	4347.0	3550.9	2524.2
67.5°	1617.6	1720.2	1950.7	2979.4	4608.6	4920.5	4852.7	4364.5	3994.5	3235.1	2189.0
70°	1106.1	1179.7	1336.7	2169.6	3934.4	4254.1	4211.4	3901.5	3438.5	2859.3	1778.3
72.5°	780.7	811.7	912.4	1431.6	2989.1	3337.8	3287.4	3209.9	2762.4	2376.9	1383.2
75°	585.0	604.4	658.6	926.0	2016.6	2313.0	2266.5	2311.1	2063.1	1799.6	1007.3
77.5°	220.8	240.2	373.9	590.8	1193.3	1420.0	1373.5	1400.6	1146.8	908.5	501.7
80°	60.1	63.9	124.0	280.9	542.4	707.1	643.1	552.1	426.2	418.4	265.4
82.5°	25.2	29.1	56.2	151.1	193.7	193.7	162.7	201.5	162.7	195.7	127.9
85°	9.7	11.6	13.6	38.7	25.2	27.1	29.1	38.7	32.9	40.7	29.1
87.5°	0.0	0.0	0.0	1.9	1.9	3.9	1.9	3.9	5.8	5.8	5.8
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°	1565.2	1565.2	1565.2	1565.2	1565.2	1565.2	1565.2	1565.2	1565.2	1565.2	1565.2
2.5°	1555.6	1534.3	1503.3	1452.9	1400.6	1371.5	1334.7	1328.9	1290.2	1286.3	1270.8
5°	1565.2	1520.7	1441.3	1344.4	1249.5	1175.9	1121.6	1092.6	1036.4	1036.4	1020.9
7.5°	1573.0	1503.3	1375.4	1232.1	1102.3	1003.5	929.8	898.9	848.5	844.6	833.0
10°	1574.9	1481.9	1303.7	1117.8	958.9	858.2	786.5	751.6	707.1	703.2	695.4
12.5°	1590.4	1470.3	1239.8	1019.0	856.2	747.8	678.0	649.0	614.1	610.2	602.5
15°	1615.6	1470.3	1185.6	935.7	765.2	664.5	604.4	577.3	552.1	548.2	544.3
17.5°	1640.8	1466.4	1131.3	858.2	689.6	598.6	546.3	525.0	505.6	503.7	499.8
20°	1664.0	1464.5	1077.1	792.3	631.5	544.3	503.7	484.3	468.8	468.8	466.9
22.5°	1687.3	1460.6	1024.8	730.3	581.2	503.7	468.8	447.5	435.9	435.9	433.9
25°	1722.2	1460.6	976.3	678.0	540.5	472.7	437.8	422.3	412.6	410.7	410.7
27.5°	1762.8	1472.3	933.7	631.5	505.6	441.7	414.6	399.1	387.4	383.6	385.5
30°	1807.4	1481.9	895.0	590.8	472.7	418.4	389.4	373.9	362.3	358.4	360.3
32.5°	1851.9	1493.6	860.1	554.0	439.7	397.1	368.1	350.6	339.0	337.1	337.1
35°	1900.4	1505.2	825.2	523.0	412.6	375.8	348.7	329.3	321.6	317.7	319.6
37.5°	1948.8	1524.6	792.3	494.0	393.2	356.4	331.3	311.9	306.1	304.1	304.1
40°	2006.9	1553.6	778.7	474.6	375.8	339.0	317.7	298.3	292.5	292.5	292.5
42.5°	2055.4	1576.9	767.1	453.3	362.3	323.5	304.1	288.6	284.8	282.8	284.8
45°	2103.8	1598.2	751.6	433.9	344.8	308.0	292.5	277.0	273.1	273.1	273.1
47.5°	2152.2	1609.8	730.3	414.6	329.3	294.5	280.9	267.3	263.5	263.5	263.5
50°	2191.0	1619.5	699.3	393.2	311.9	282.8	269.3	255.7	251.8	251.8	251.8
52.5°	2229.7	1621.4	666.4	368.1	294.5	269.3	257.6	244.1	240.2	238.3	238.3
55°	2264.6	1619.5	627.6	339.0	275.1	253.8	244.1	232.5	224.7	217.0	220.8
57.5°	2289.8	1617.6	583.1	309.9	255.7	238.3	234.4	218.9	203.4	184.0	187.9
60°	2280.1	1596.2	534.7	273.1	234.4	222.8	222.8	201.5	174.3	164.7	166.6
62.5°	2218.1	1536.2	484.3	234.4	213.1	207.3	205.3	182.1	160.8	151.1	153.0
65°	2032.1	1385.1	410.7	199.5	191.8	189.8	189.8	168.5	149.2	137.5	139.5
67.5°	1749.3	1162.3	335.1	168.5	170.5	174.3	174.3	155.0	135.6	124.0	125.9
70°	1402.5	908.5	267.3	145.3	147.2	153.0	156.9	139.5	122.0	110.4	110.4
72.5°	1055.8	689.6	215.0	122.0	131.7	131.7	137.5	124.0	106.5	94.9	96.9
75°	765.2	494.0	170.5	102.7	114.3	112.4	112.4	104.6	91.0	83.3	83.3
77.5°	362.3	259.6	135.6	73.6	89.1	87.2	89.1	83.3	77.5	69.7	71.7
80°	178.2	127.9	87.2	52.3	62.0	63.9	69.7	65.9	63.9	58.1	58.1
82.5°	85.2	50.4	40.7	36.8	42.6	44.6	48.4	48.4	50.4	46.5	46.5
85°	23.2	13.6	17.4	23.2	27.1	29.1	32.9	34.9	34.9	32.9	34.9
87.5°	5.8	5.8	7.7	11.6	13.6	15.5	17.4	17.4	7.7	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)