

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: P799384

Luminaire Tested: **ARCH2-110-730-U-T4W-HSS**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P799384
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: ARCH2-110-730-U-T4W-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 800mA 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: 9064 lumens
Efficiency: N/A
Efficacy: 82.8 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): 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

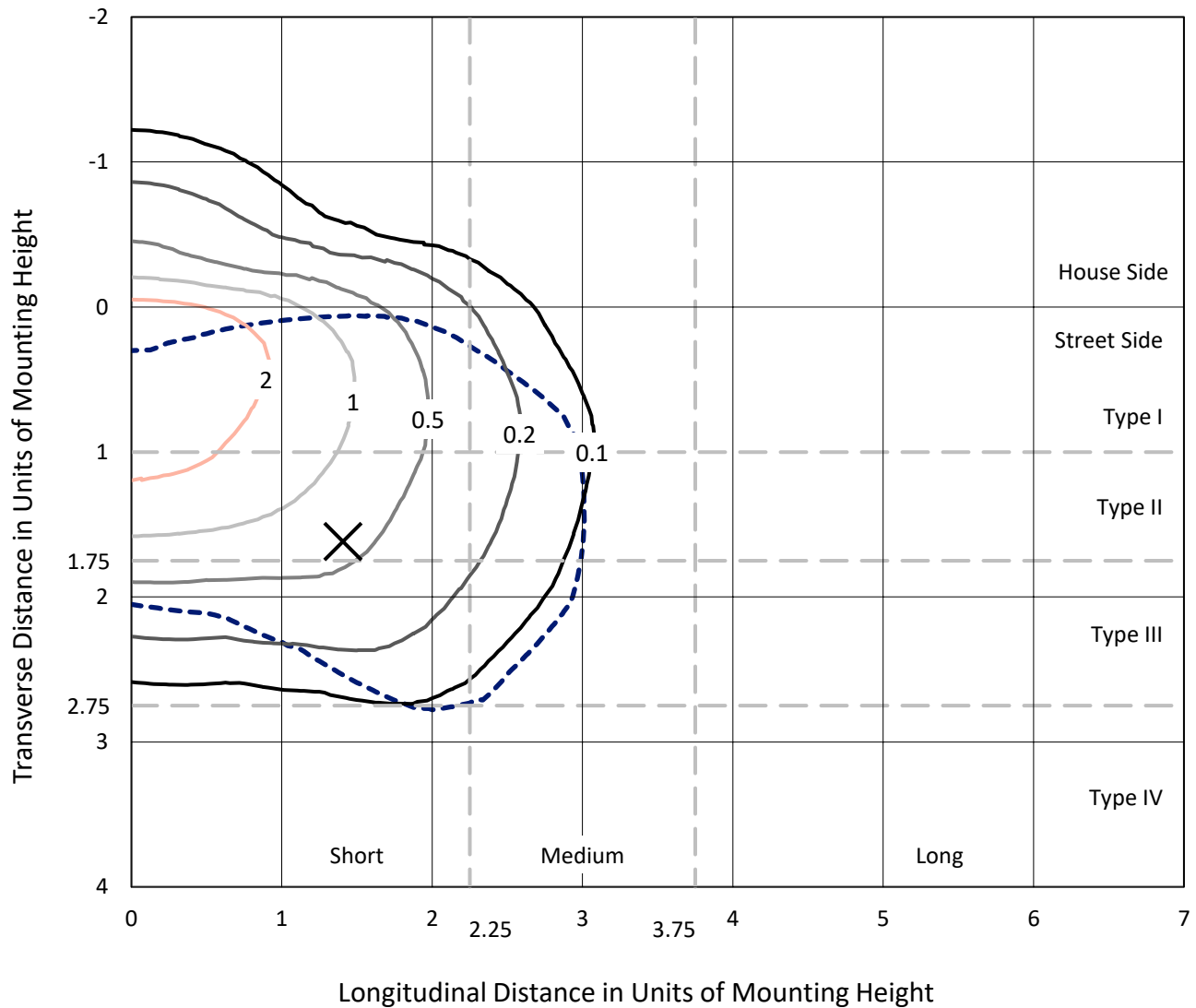


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

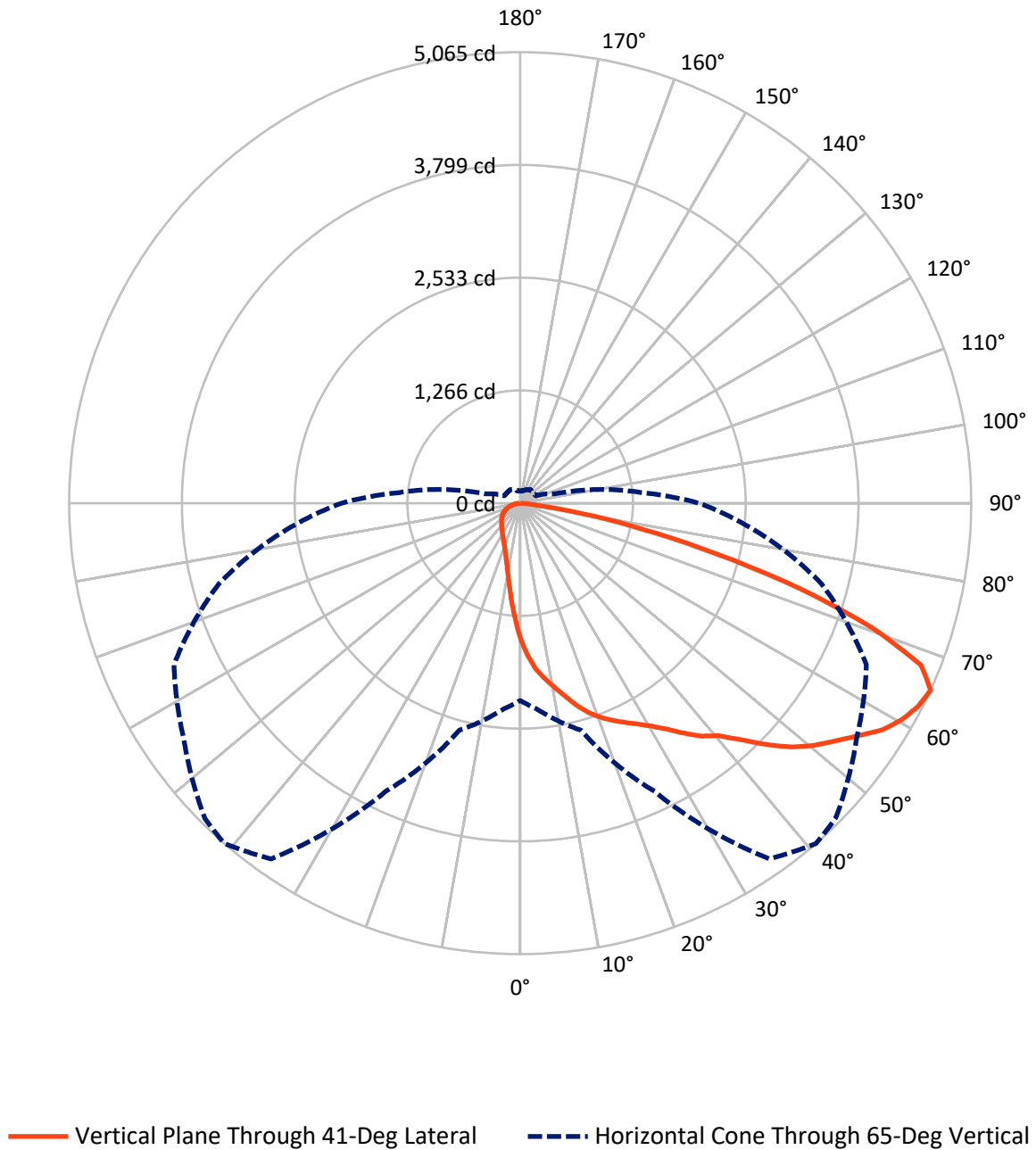


Based on 25 foot mounting height. Maximum calculated value = 3.6 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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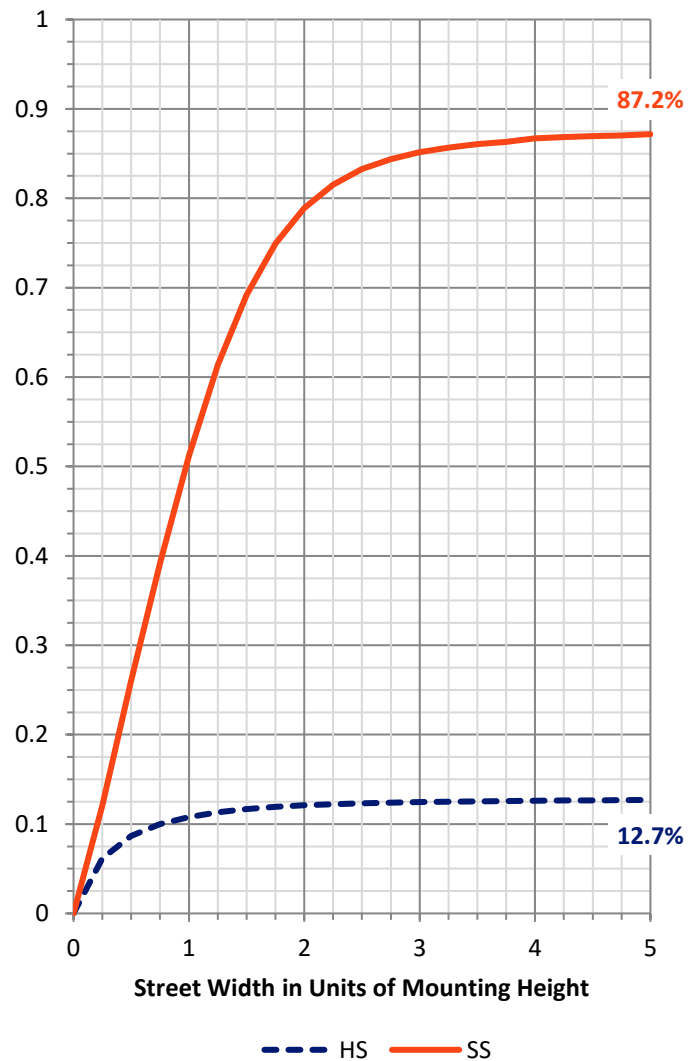
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1163.7	0.0	1163.7
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	7900.3	0.0	7900.3
	% Fixture	87.2	0.0	87.2
Total	Lumens	9064.0	0.0	9064.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.9	1.6
10°-20°	431.5	4.8
20°-30°	742.3	8.2
30°-40°	1125.9	12.4
40°-50°	1649.4	18.2
50°-60°	2082.9	23.0
60°-70°	1953.1	21.5
70°-80°	870.5	9.6
80°-90°	64.5	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°	9064.0	100.0
0°-180°	9064.0	100.0

Coefficient of Utilization



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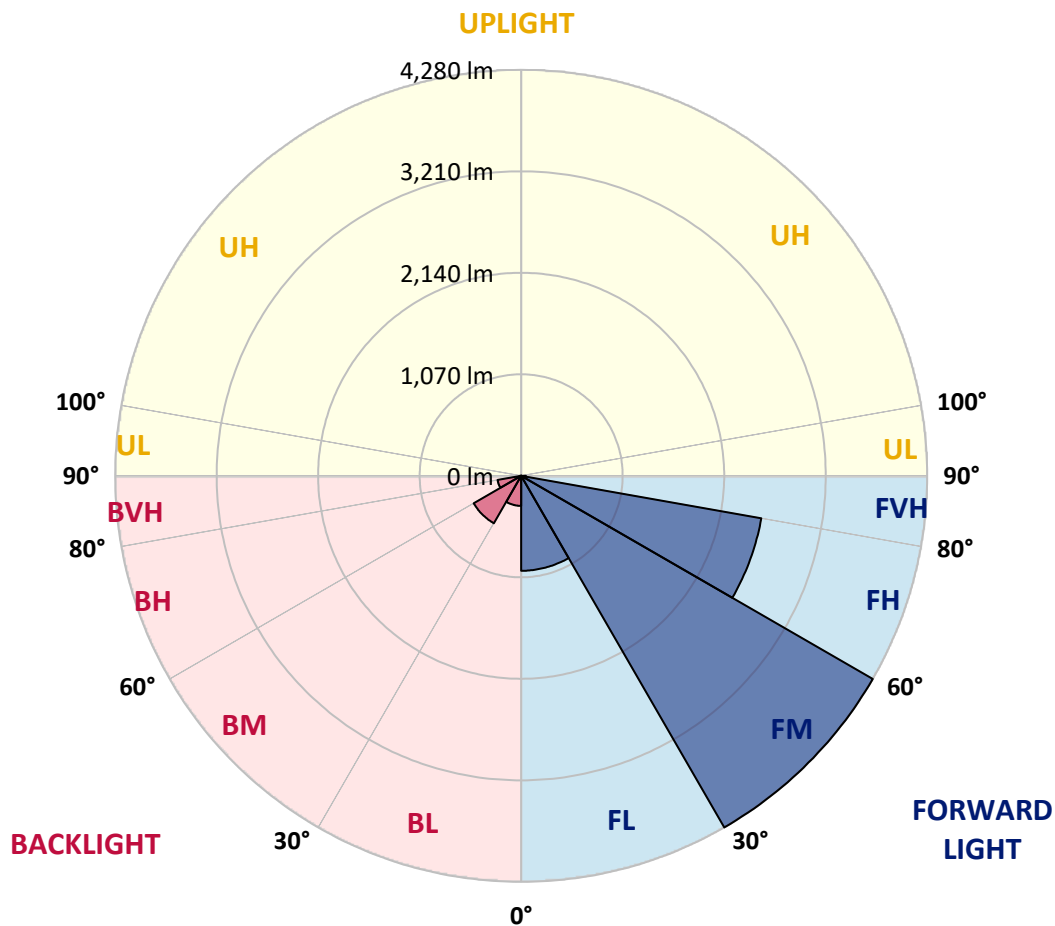
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1001.0	11.0			
FM	(30°-60°)	4280.4	47.2			
FH	(60°-80°)	2570.8	28.4			G2/5000
FVH	(80°-90°)	48.2	0.5			G1/100
BL	(0°-30°)	316.7	3.5	B1/500		
BM	(30°-60°)	577.8	6.4	B1/1000		
BH	(60°-80°)	252.8	2.8	B1/500		G1/500
BVH	(80°-90°)	16.3	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°	1544.5	1544.5	1544.5	1544.5	1544.5	1544.5	1544.5	1544.5	1544.5	1544.5	1544.5
2.5°	1781.5	1775.7	1771.9	1750.9	1750.9	1722.2	1724.1	1697.4	1664.9	1613.3	1557.8
5°	1949.7	1942.0	1932.5	1911.5	1903.8	1875.1	1871.3	1833.1	1777.7	1687.8	1588.4
7.5°	2096.9	2089.2	2075.8	2045.3	2024.2	1989.8	1980.3	1930.6	1869.4	1758.5	1619.0
10°	2230.7	2224.9	2207.7	2169.5	2140.8	2098.8	2081.6	2014.7	1938.2	1815.9	1643.9
12.5°	2366.4	2358.7	2335.8	2303.3	2268.9	2219.2	2198.2	2112.2	2014.7	1879.0	1680.2
15°	2492.5	2481.1	2463.9	2429.5	2398.9	2351.1	2328.2	2226.8	2108.3	1949.7	1728.0
17.5°	2574.7	2565.2	2549.9	2530.8	2505.9	2469.6	2446.7	2347.3	2202.0	2018.5	1777.7
20°	2624.4	2620.6	2614.9	2603.4	2591.9	2567.1	2549.9	2456.2	2303.3	2085.4	1825.4
22.5°	2662.7	2658.8	2656.9	2656.9	2658.8	2649.3	2637.8	2557.5	2400.8	2156.1	1869.4
25°	2721.9	2720.0	2716.2	2712.4	2725.7	2727.7	2723.8	2668.4	2523.1	2249.8	1924.8
27.5°	2804.1	2798.4	2790.7	2786.9	2800.3	2809.8	2817.5	2779.3	2653.1	2345.4	1987.9
30°	2930.3	2913.1	2893.9	2880.6	2890.1	2905.4	2922.6	2899.7	2786.9	2463.9	2052.9
32.5°	3079.4	3058.3	3014.4	2989.5	3014.4	3025.8	3039.2	3027.7	2926.4	2591.9	2117.9
35°	3260.9	3236.1	3190.2	3153.9	3197.9	3173.0	3167.3	3155.8	3058.3	2718.1	2190.5
37.5°	3563.0	3526.6	3454.0	3373.7	3373.7	3320.2	3299.2	3264.8	3176.8	2830.9	2261.3
40°	3912.8	3865.0	3771.3	3652.8	3543.8	3433.0	3419.6	3394.7	3316.4	2960.8	2341.5
42.5°	4297.0	4205.2	4075.2	3931.9	3756.0	3629.9	3599.3	3528.6	3452.1	3092.7	2421.8
45°	4723.2	4532.1	4342.8	4270.2	3979.7	3865.0	3807.6	3679.6	3593.5	3230.4	2505.9
47.5°	4792.0	4642.9	4516.8	4505.3	4188.0	4092.4	4027.4	3843.9	3746.5	3377.5	2593.8
50°	4753.8	4664.0	4677.3	4631.5	4340.9	4277.8	4228.1	4019.8	3897.5	3519.0	2674.1
52.5°	4593.2	4642.9	4719.4	4635.3	4486.2	4434.6	4409.7	4209.0	4038.9	3649.0	2746.8
55°	4402.1	4436.5	4600.9	4704.1	4654.4	4608.5	4585.6	4428.8	4178.4	3757.9	2813.7
57.5°	4123.0	4107.7	4289.3	4692.6	4830.3	4803.5	4778.6	4644.8	4308.4	3836.3	2855.7
60°	3704.4	3671.9	3901.3	4463.3	4887.6	4929.7	4918.2	4788.2	4407.8	3834.4	2838.5
62.5°	2980.0	3060.2	3377.5	4088.6	4912.4	5019.5	4998.5	4799.7	4440.3	3723.5	2729.6
65°	2215.4	2330.1	2641.6	3572.5	4878.0	5065.4	5008.0	4612.3	4289.3	3503.7	2490.6
67.5°	1596.1	1697.4	1924.8	2939.8	4547.4	4855.1	4788.2	4306.5	3941.4	3192.1	2159.9
70°	1091.4	1164.1	1318.9	2140.8	3882.2	4197.6	4155.5	3849.7	3392.8	2821.3	1754.7
72.5°	770.3	800.9	900.3	1412.6	2949.4	3293.4	3243.7	3167.3	2725.7	2345.4	1364.8
75°	577.3	596.4	649.9	913.7	1989.8	2282.3	2236.4	2280.4	2035.7	1775.7	994.0
77.5°	217.9	237.0	368.9	583.0	1177.5	1401.1	1355.2	1382.0	1131.6	896.5	495.1
80°	59.3	63.1	122.3	277.2	535.2	697.7	634.6	544.8	420.5	412.9	261.9
82.5°	24.8	28.7	55.4	149.1	191.1	191.1	160.6	198.8	160.6	193.1	126.2
85°	9.6	11.5	13.4	38.2	24.8	26.8	28.7	38.2	32.5	40.1	28.7
87.5°	0.0	0.0	0.0	1.9	1.9	3.8	1.9	3.8	5.7	5.7	5.7
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°	1544.5	1544.5	1544.5	1544.5	1544.5	1544.5	1544.5	1544.5	1544.5	1544.5	1544.5
2.5°	1534.9	1513.9	1483.3	1433.6	1382.0	1353.3	1317.0	1311.3	1273.0	1269.2	1253.9
5°	1544.5	1500.5	1422.1	1326.6	1232.9	1160.3	1106.7	1078.1	1022.6	1022.6	1007.3
7.5°	1552.1	1483.3	1357.1	1215.7	1087.6	990.1	917.5	886.9	837.2	833.4	821.9
10°	1554.0	1462.3	1286.4	1102.9	946.2	846.8	776.1	741.6	697.7	693.9	686.2
12.5°	1569.3	1450.8	1223.3	1005.4	844.9	737.8	669.0	640.3	605.9	602.1	594.5
15°	1594.2	1450.8	1169.8	923.2	755.0	655.6	596.4	569.6	544.8	540.9	537.1
17.5°	1619.0	1447.0	1116.3	846.8	680.5	590.6	539.0	518.0	498.9	497.0	493.2
20°	1641.9	1445.1	1062.8	781.8	623.1	537.1	497.0	477.9	462.6	462.6	460.7
22.5°	1664.9	1441.2	1011.2	720.6	573.4	497.0	462.6	441.5	430.1	430.1	428.2
25°	1699.3	1441.2	963.4	669.0	533.3	466.4	432.0	416.7	407.1	405.2	405.2
27.5°	1739.4	1452.7	921.3	623.1	498.9	435.8	409.1	393.8	382.3	378.5	380.4
30°	1783.4	1462.3	883.1	583.0	466.4	412.9	384.2	368.9	357.4	353.6	355.5
32.5°	1827.4	1473.7	848.7	546.7	433.9	391.8	363.2	346.0	334.5	332.6	332.6
35°	1875.1	1485.2	814.3	516.1	407.1	370.8	344.1	324.9	317.3	313.5	315.4
37.5°	1922.9	1504.3	781.8	487.4	388.0	351.7	326.9	307.7	302.0	300.1	300.1
40°	1980.3	1533.0	768.4	468.3	370.8	334.5	313.5	294.4	288.6	288.6	288.6
42.5°	2028.1	1555.9	756.9	447.3	357.4	319.2	300.1	284.8	281.0	279.1	281.0
45°	2075.8	1577.0	741.6	428.2	340.2	303.9	288.6	273.3	269.5	269.5	269.5
47.5°	2123.6	1588.4	720.6	409.1	324.9	290.5	277.2	263.8	260.0	260.0	260.0
50°	2161.9	1598.0	690.0	388.0	307.7	279.1	265.7	252.3	248.5	248.5	248.5
52.5°	2200.1	1599.9	657.5	363.2	290.5	265.7	254.2	240.8	237.0	235.1	235.1
55°	2234.5	1598.0	619.3	334.5	271.4	250.4	240.8	229.4	221.7	214.1	217.9
57.5°	2259.3	1596.1	575.3	305.8	252.3	235.1	231.3	216.0	200.7	181.6	185.4
60°	2249.8	1575.0	527.6	269.5	231.3	219.8	219.8	198.8	172.0	162.5	164.4
62.5°	2188.6	1515.8	477.9	231.3	210.3	204.5	202.6	179.7	158.7	149.1	151.0
65°	2005.1	1366.7	405.2	196.9	189.2	187.3	187.3	166.3	147.2	135.7	137.6
67.5°	1726.0	1146.9	330.7	166.3	168.2	172.0	172.0	152.9	133.8	122.3	124.2
70°	1383.9	896.5	263.8	143.4	145.3	151.0	154.8	137.6	120.4	109.0	109.0
72.5°	1041.7	680.5	212.2	120.4	130.0	130.0	135.7	122.3	105.1	93.7	95.6
75°	755.0	487.4	168.2	101.3	112.8	110.9	110.9	103.2	89.8	82.2	82.2
77.5°	357.4	256.1	133.8	72.6	87.9	86.0	87.9	82.2	76.5	68.8	70.7
80°	175.9	126.2	86.0	51.6	61.2	63.1	68.8	65.0	63.1	57.3	57.3
82.5°	84.1	49.7	40.1	36.3	42.1	44.0	47.8	47.8	49.7	45.9	45.9
85°	22.9	13.4	17.2	22.9	26.8	28.7	32.5	34.4	34.4	32.5	34.4
87.5°	5.7	5.7	7.6	11.5	13.4	15.3	17.2	17.2	7.6	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)