

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: P835889

Luminaire Tested: **ARCH3-110-727-U-T4W-HSS**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P835889
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: ARCH3-110-727-U-T4W-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 880mA 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: 11187 lumens
Efficiency: N/A
Efficacy: 100.0 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): 111.9
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

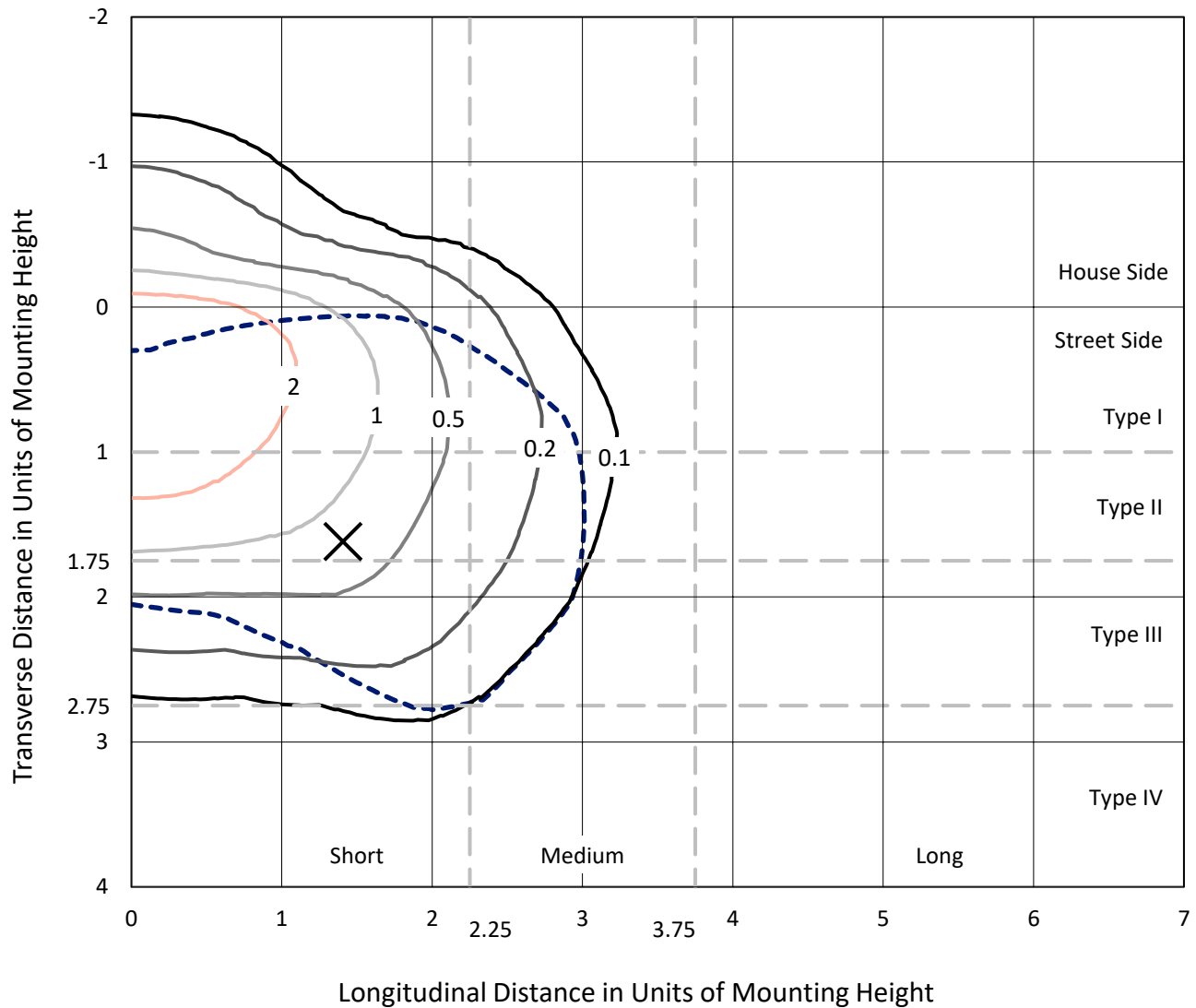


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

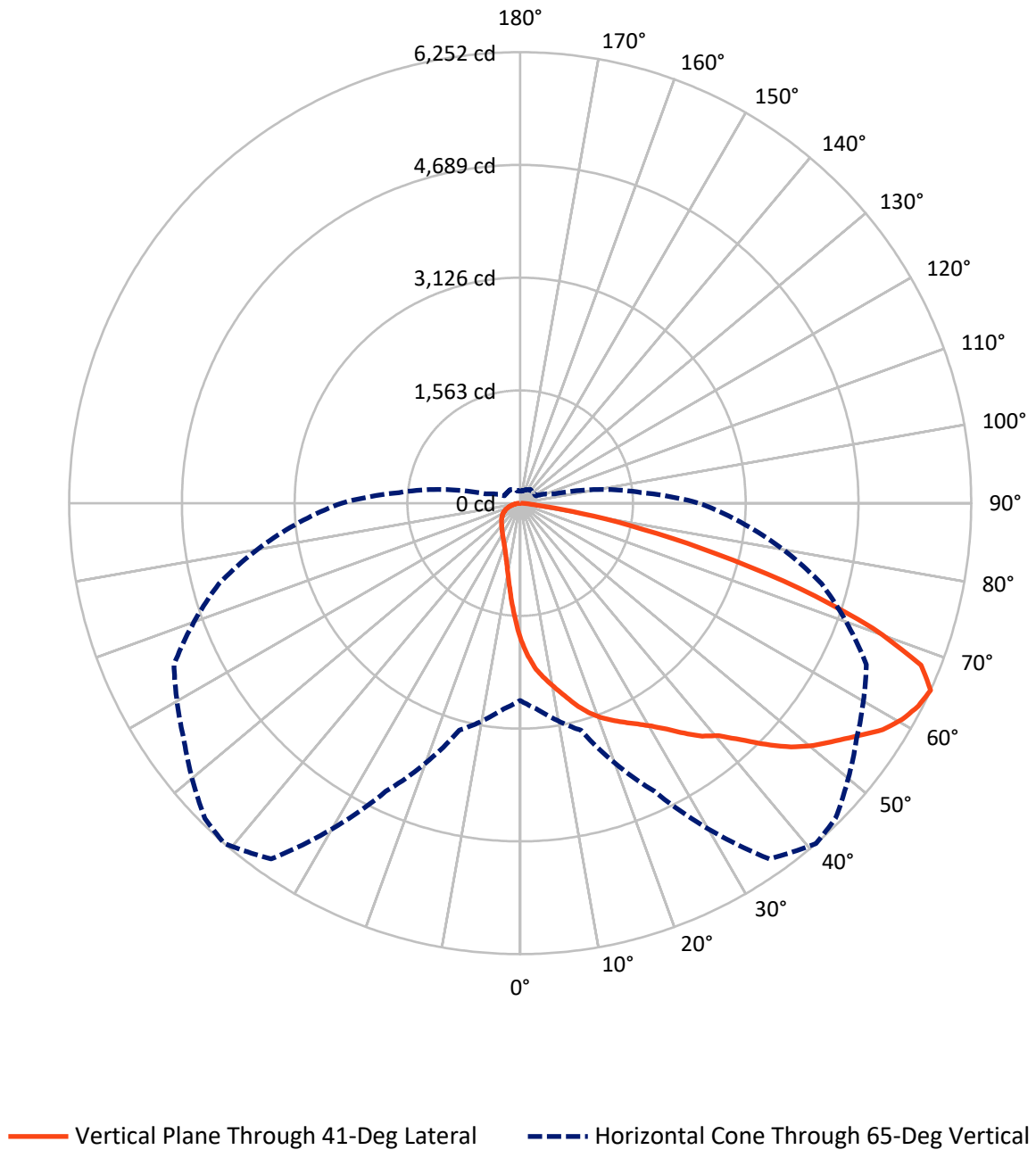


Based on 25 foot mounting height. Maximum calculated value = 4.4 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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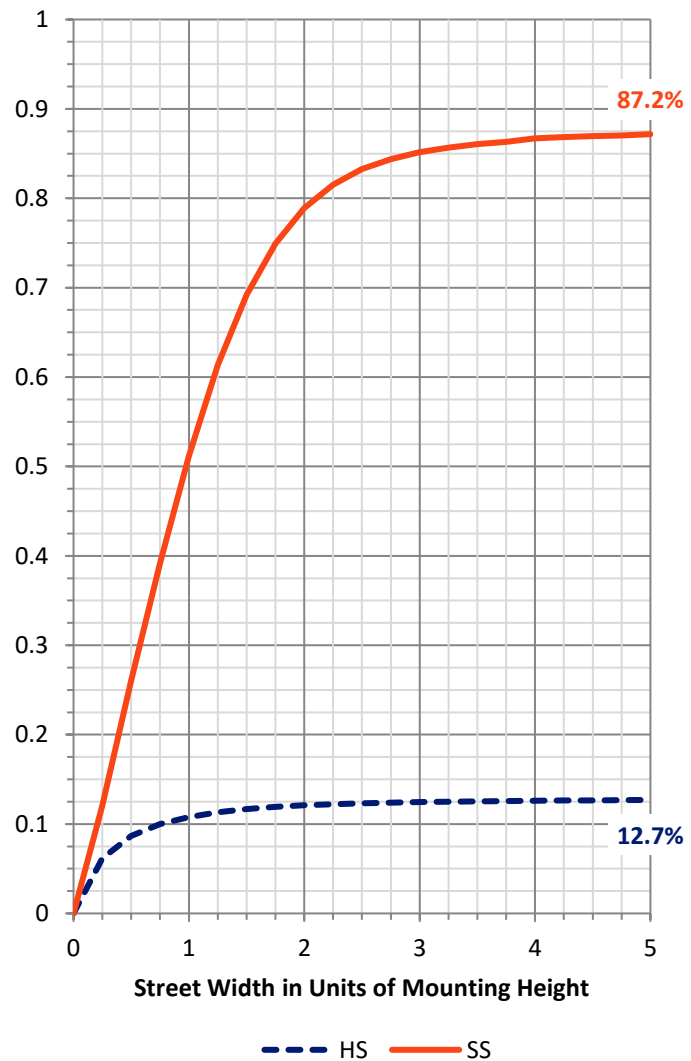
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1436.2	0.0	1436.2
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	9750.8	0.0	9750.8
	% Fixture	87.2	0.0	87.2
Total	Lumens	11187.0	0.0	11187.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	177.6	1.6
10°-20°	532.6	4.8
20°-30°	916.2	8.2
30°-40°	1389.6	12.4
40°-50°	2035.8	18.2
50°-60°	2570.7	23.0
60°-70°	2410.5	21.5
70°-80°	1074.4	9.6
80°-90°	79.6	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°	11187.0	100.0
0°-180°	11187.0	100.0

Coefficient of Utilization



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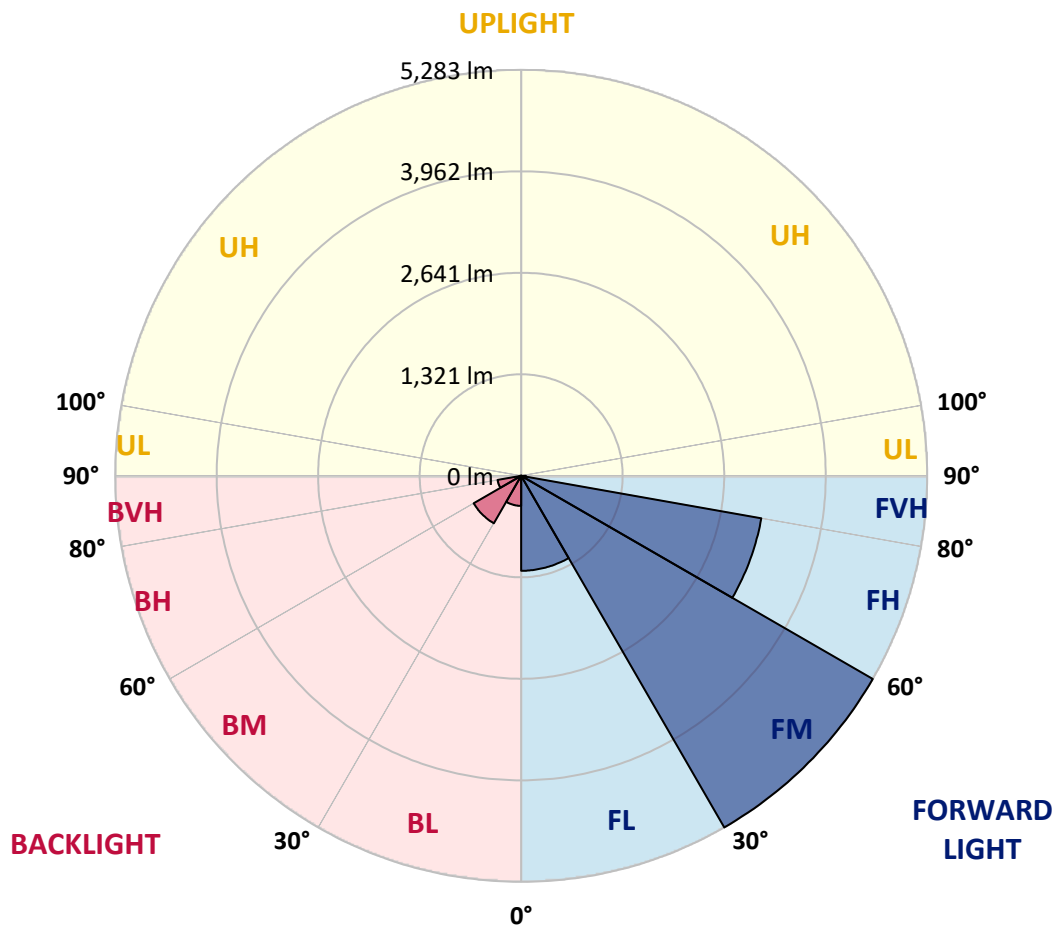
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1235.5	11.0			
FM	(30°-60°)	5282.9	47.2			
FH	(60°-80°)	3172.9	28.4			G2/5000
FVH	(80°-90°)	59.4	0.5			G1/100
BL	(0°-30°)	390.9	3.5	B1/500		
BM	(30°-60°)	713.2	6.4	B1/1000		
BH	(60°-80°)	312.0	2.8	B1/500		G1/500
BVH	(80°-90°)	20.1	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°	1906.2	1906.2	1906.2	1906.2	1906.2	1906.2	1906.2	1906.2	1906.2	1906.2	1906.2
2.5°	2198.7	2191.7	2186.9	2161.0	2161.0	2125.6	2128.0	2094.9	2054.8	1991.1	1922.7
5°	2406.3	2396.9	2385.1	2359.2	2349.7	2314.3	2309.6	2262.4	2194.0	2083.1	1960.5
7.5°	2588.0	2578.6	2562.1	2524.3	2498.4	2455.9	2444.1	2382.8	2307.3	2170.4	1998.2
10°	2753.1	2746.1	2724.8	2677.7	2642.3	2590.4	2569.1	2486.6	2392.2	2241.2	2028.9
12.5°	2920.6	2911.2	2882.9	2842.8	2800.3	2739.0	2713.0	2606.9	2486.6	2319.1	2073.7
15°	3076.4	3062.2	3041.0	2998.5	2960.8	2901.8	2873.5	2748.4	2602.2	2406.3	2132.7
17.5°	3177.8	3166.0	3147.1	3123.5	3092.9	3048.0	3019.7	2897.1	2717.8	2491.3	2194.0
20°	3239.1	3234.4	3227.3	3213.2	3199.0	3168.4	3147.1	3031.5	2842.8	2573.9	2253.0
22.5°	3286.3	3281.6	3279.2	3279.2	3281.6	3269.8	3255.6	3156.6	2963.1	2661.1	2307.3
25°	3359.5	3357.1	3352.4	3347.7	3364.2	3366.5	3361.8	3293.4	3114.1	2776.7	2375.7
27.5°	3460.9	3453.8	3444.4	3439.7	3456.2	3468.0	3477.4	3430.2	3274.5	2894.7	2453.5
30°	3616.6	3595.4	3571.8	3555.3	3567.1	3585.9	3607.2	3578.9	3439.7	3041.0	2533.7
32.5°	3800.6	3774.7	3720.4	3689.7	3720.4	3734.6	3751.1	3736.9	3611.9	3199.0	2614.0
35°	4024.7	3994.1	3937.4	3892.6	3946.9	3916.2	3909.1	3895.0	3774.7	3354.7	2703.6
37.5°	4397.5	4352.7	4263.0	4163.9	4163.9	4097.9	4071.9	4029.5	3920.9	3493.9	2790.9
40°	4829.2	4770.2	4654.6	4508.4	4373.9	4237.1	4220.5	4189.9	4093.2	3654.3	2890.0
42.5°	5303.4	5190.2	5029.7	4852.8	4635.8	4480.1	4442.3	4355.0	4260.7	3817.1	2989.1
45°	5829.5	5593.6	5360.0	5270.4	4911.8	4770.2	4699.5	4541.4	4435.2	3987.0	3092.9
47.5°	5914.4	5730.4	5574.7	5560.6	5168.9	5051.0	4970.8	4744.3	4624.0	4168.6	3201.4
50°	5867.2	5756.4	5772.9	5716.3	5357.7	5279.8	5218.5	4961.3	4810.3	4343.2	3300.5
52.5°	5669.1	5730.4	5824.8	5721.0	5537.0	5473.3	5442.6	5194.9	4984.9	4503.6	3390.1
55°	5433.2	5475.6	5678.5	5805.9	5744.6	5687.9	5659.6	5466.2	5157.1	4638.1	3472.7
57.5°	5088.7	5069.8	5294.0	5791.8	5961.6	5928.6	5897.9	5732.8	5317.6	4734.8	3524.6
60°	4572.1	4532.0	4815.1	5508.7	6032.4	6084.3	6070.1	5909.7	5440.2	4732.5	3503.4
62.5°	3677.9	3777.0	4168.6	5046.3	6063.1	6195.2	6169.2	5923.9	5480.3	4595.7	3368.9
65°	2734.3	2875.8	3260.4	4409.3	6020.6	6251.8	6181.0	5692.7	5294.0	4324.4	3074.0
67.5°	1969.9	2094.9	2375.7	3628.4	5612.5	5992.3	5909.7	5315.2	4864.6	3939.8	2665.9
70°	1347.1	1436.7	1627.8	2642.3	4791.5	5180.7	5128.8	4751.4	4187.5	3482.1	2165.7
72.5°	950.7	988.5	1111.2	1743.4	3640.2	4064.8	4003.5	3909.1	3364.2	2894.7	1684.4
75°	712.5	736.1	802.1	1127.7	2455.9	2816.8	2760.2	2814.5	2512.5	2191.7	1226.8
77.5°	268.9	292.5	455.3	719.5	1453.2	1729.3	1672.6	1705.7	1396.6	1106.4	611.0
80°	73.1	77.9	151.0	342.1	660.6	861.1	783.2	672.4	519.0	509.6	323.2
82.5°	30.7	35.4	68.4	184.0	235.9	235.9	198.2	245.4	198.2	238.3	155.7
85°	11.8	14.2	16.5	47.2	30.7	33.0	35.4	47.2	40.1	49.5	35.4
87.5°	0.0	0.0	0.0	2.4	2.4	4.7	2.4	4.7	7.1	7.1	7.1
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°	1906.2	1906.2	1906.2	1906.2	1906.2	1906.2	1906.2	1906.2	1906.2	1906.2	1906.2
2.5°	1894.4	1868.5	1830.7	1769.4	1705.7	1670.3	1625.5	1618.4	1571.2	1566.5	1547.6
5°	1906.2	1851.9	1755.2	1637.3	1521.7	1432.0	1366.0	1330.6	1262.2	1262.2	1243.3
7.5°	1915.6	1830.7	1675.0	1500.4	1342.4	1222.0	1132.4	1094.7	1033.3	1028.6	1014.4
10°	1918.0	1804.8	1587.7	1361.2	1167.8	1045.1	957.8	915.4	861.1	856.4	846.9
12.5°	1936.9	1790.6	1509.9	1240.9	1042.8	910.6	825.7	790.3	747.9	743.1	733.7
15°	1967.5	1790.6	1443.8	1139.5	931.9	809.2	736.1	703.0	672.4	667.6	662.9
17.5°	1998.2	1785.9	1377.8	1045.1	839.9	729.0	665.3	639.3	615.7	613.4	608.7
20°	2026.5	1783.5	1311.7	964.9	769.1	662.9	613.4	589.8	570.9	570.9	568.6
22.5°	2054.8	1778.8	1248.0	889.4	707.7	613.4	570.9	545.0	530.8	530.8	528.5
25°	2097.3	1778.8	1189.0	825.7	658.2	575.6	533.2	514.3	502.5	500.1	500.1
27.5°	2146.8	1793.0	1137.1	769.1	615.7	537.9	504.9	486.0	471.8	467.1	469.5
30°	2201.1	1804.8	1089.9	719.5	575.6	509.6	474.2	455.3	441.2	436.4	438.8
32.5°	2255.4	1818.9	1047.5	674.7	535.5	483.6	448.2	427.0	412.9	410.5	410.5
35°	2314.3	1833.1	1005.0	637.0	502.5	457.7	424.6	401.1	391.6	386.9	389.3
37.5°	2373.3	1856.7	964.9	601.6	478.9	434.1	403.4	379.8	372.7	370.4	370.4
40°	2444.1	1892.1	948.4	578.0	457.7	412.9	386.9	363.3	356.2	356.2	356.2
42.5°	2503.1	1920.4	934.2	552.0	441.2	394.0	370.4	351.5	346.8	344.4	346.8
45°	2562.1	1946.3	915.4	528.5	419.9	375.1	356.2	337.4	332.6	332.6	332.6
47.5°	2621.0	1960.5	889.4	504.9	401.1	358.6	342.1	325.6	320.8	320.8	320.8
50°	2668.2	1972.3	851.7	478.9	379.8	344.4	327.9	311.4	306.7	306.7	306.7
52.5°	2715.4	1974.6	811.6	448.2	358.6	327.9	313.8	297.3	292.5	290.2	290.2
55°	2757.9	1972.3	764.4	412.9	335.0	309.1	297.3	283.1	273.7	264.2	268.9
57.5°	2788.5	1969.9	710.1	377.5	311.4	290.2	285.5	266.6	247.7	224.1	228.8
60°	2776.7	1944.0	651.1	332.6	285.5	271.3	271.3	245.4	212.3	200.5	202.9
62.5°	2701.2	1870.8	589.8	285.5	259.5	252.4	250.1	221.8	195.8	184.0	186.4
65°	2474.8	1686.8	500.1	243.0	233.6	231.2	231.2	205.2	181.7	167.5	169.9
67.5°	2130.3	1415.5	408.1	205.2	207.6	212.3	212.3	188.7	165.1	151.0	153.3
70°	1708.0	1106.4	325.6	176.9	179.3	186.4	191.1	169.9	148.6	134.5	134.5
72.5°	1285.7	839.9	261.9	148.6	160.4	160.4	167.5	151.0	129.8	115.6	118.0
75°	931.9	601.6	207.6	125.0	139.2	136.8	136.8	127.4	110.9	101.4	101.4
77.5°	441.2	316.1	165.1	89.6	108.5	106.2	108.5	101.4	94.4	84.9	87.3
80°	217.0	155.7	106.2	63.7	75.5	77.9	84.9	80.2	77.9	70.8	70.8
82.5°	103.8	61.3	49.5	44.8	51.9	54.3	59.0	59.0	61.3	56.6	56.6
85°	28.3	16.5	21.2	28.3	33.0	35.4	40.1	42.5	42.5	40.1	42.5
87.5°	7.1	7.1	9.4	14.2	16.5	18.9	21.2	21.2	9.4	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)