

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: P835878

Luminaire Tested: **ARCH3-110-722-U-T3-HSS**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P835878
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-26)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-110-722-U-T3-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2200K, 880mA LIGHTSQUARE WITH 40 LEDS AND TYPE III OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10251.1 lumens
Efficiency: N/A
Efficacy: 91.6 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



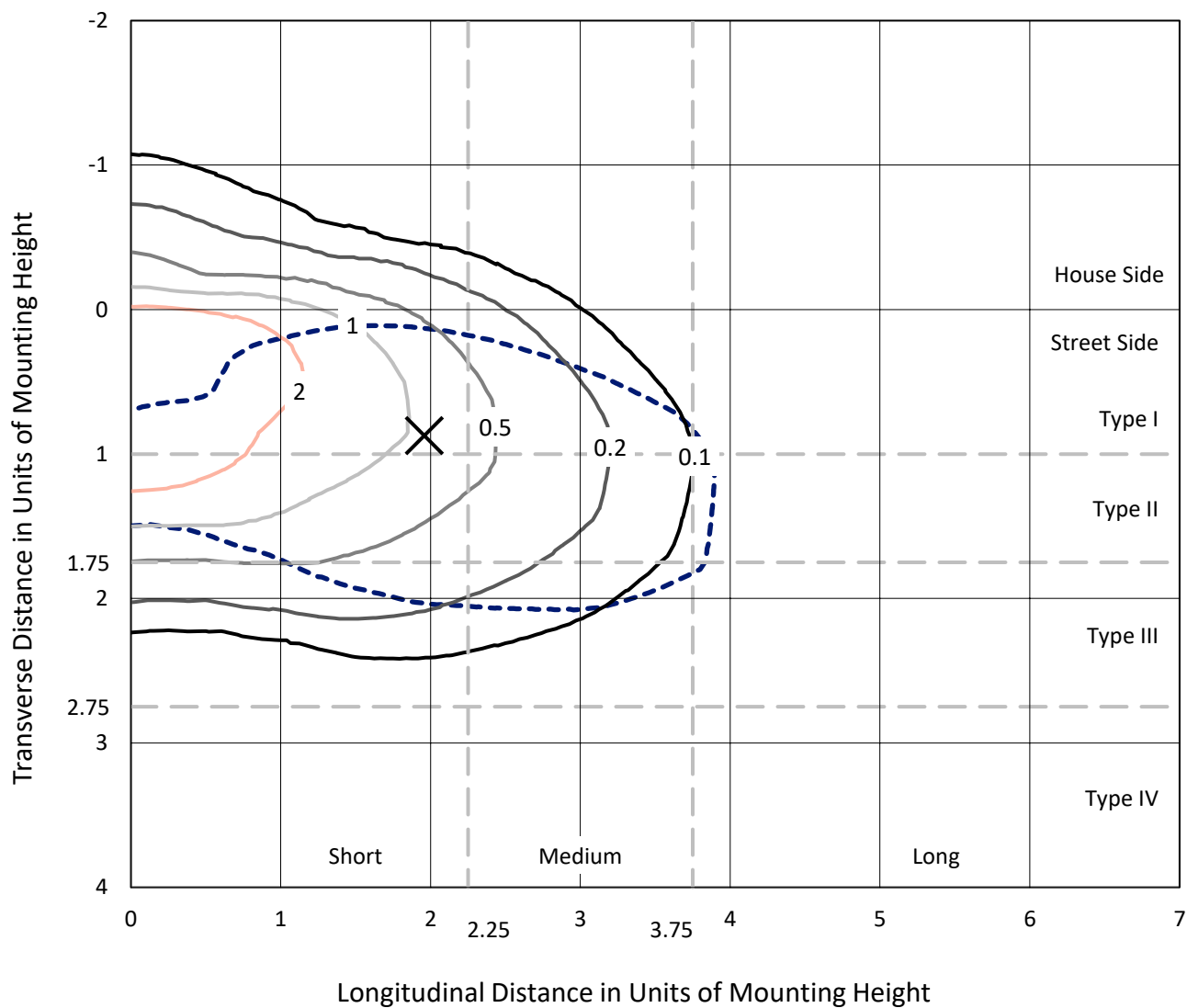
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

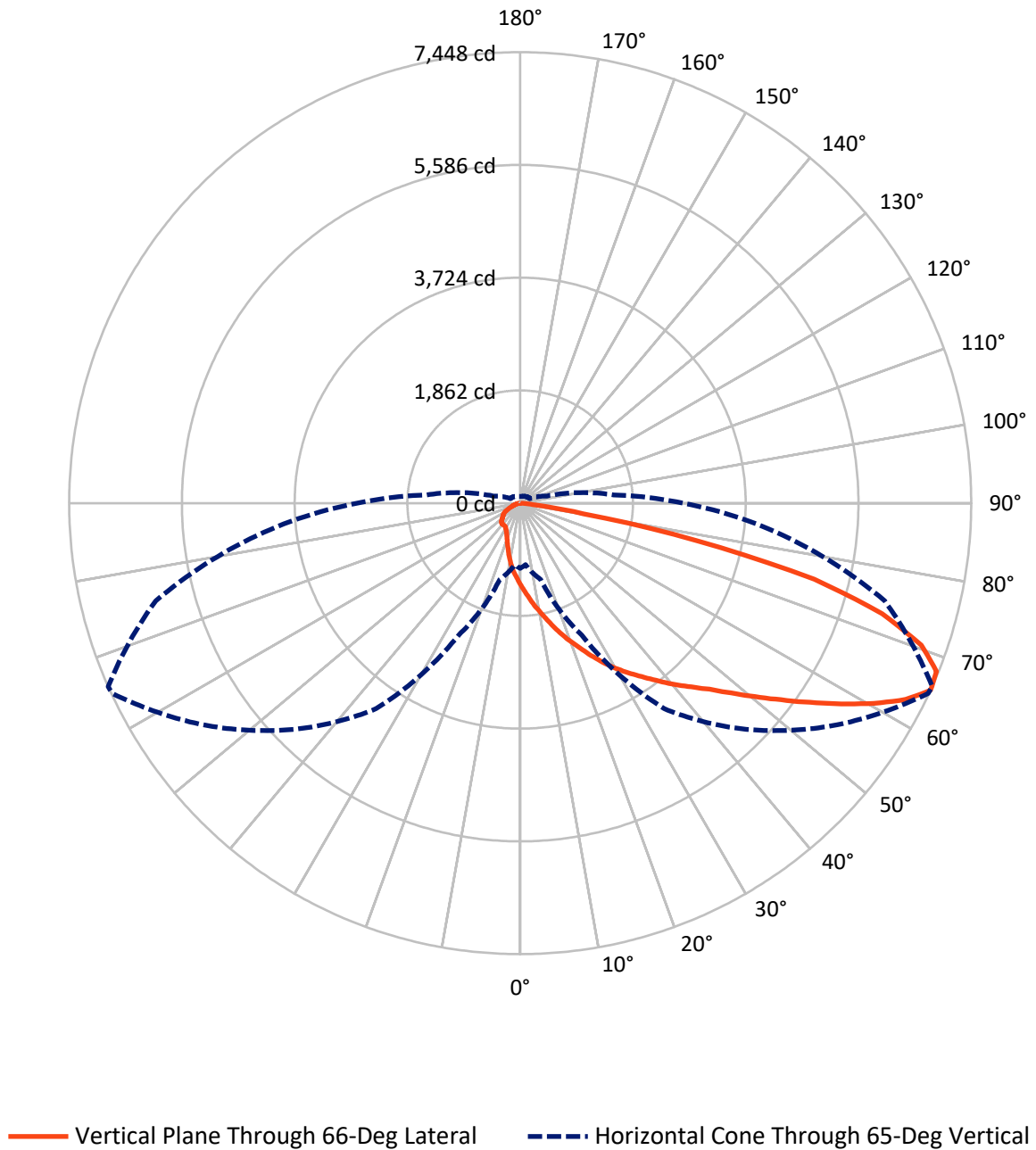


Based on 25 foot mounting height. Maximum calculated value = 3.9 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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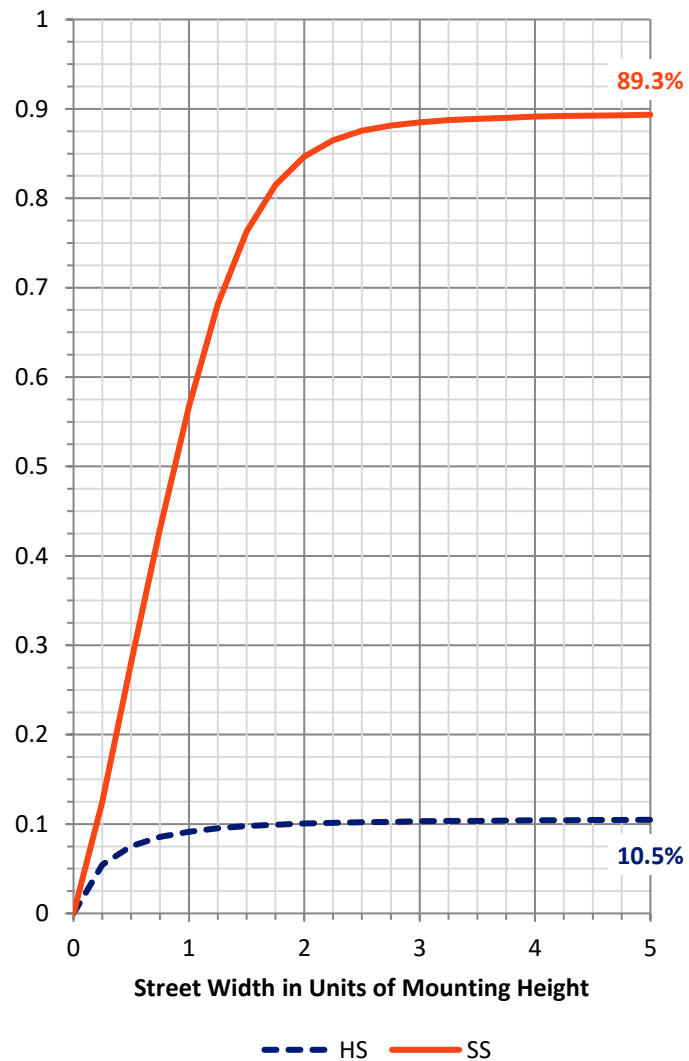
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1084.3	0.0	1084.3
	% Fixture	10.6	0.0	10.6
Street Side	Lumens	9166.7	0.0	9166.7
	% Fixture	89.4	0.0	89.4
Total	Lumens	10251.1	0.0	10251.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.9	1.3
10°-20°	436.4	4.3
20°-30°	789.6	7.7
30°-40°	1234.8	12.0
40°-50°	1873.2	18.3
50°-60°	2379.9	23.2
60°-70°	2223.8	21.7
70°-80°	1105.2	10.8
80°-90°	74.3	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°	10251.1	100.0
0°-180°	10251.1	100.0

Coefficient of Utilization



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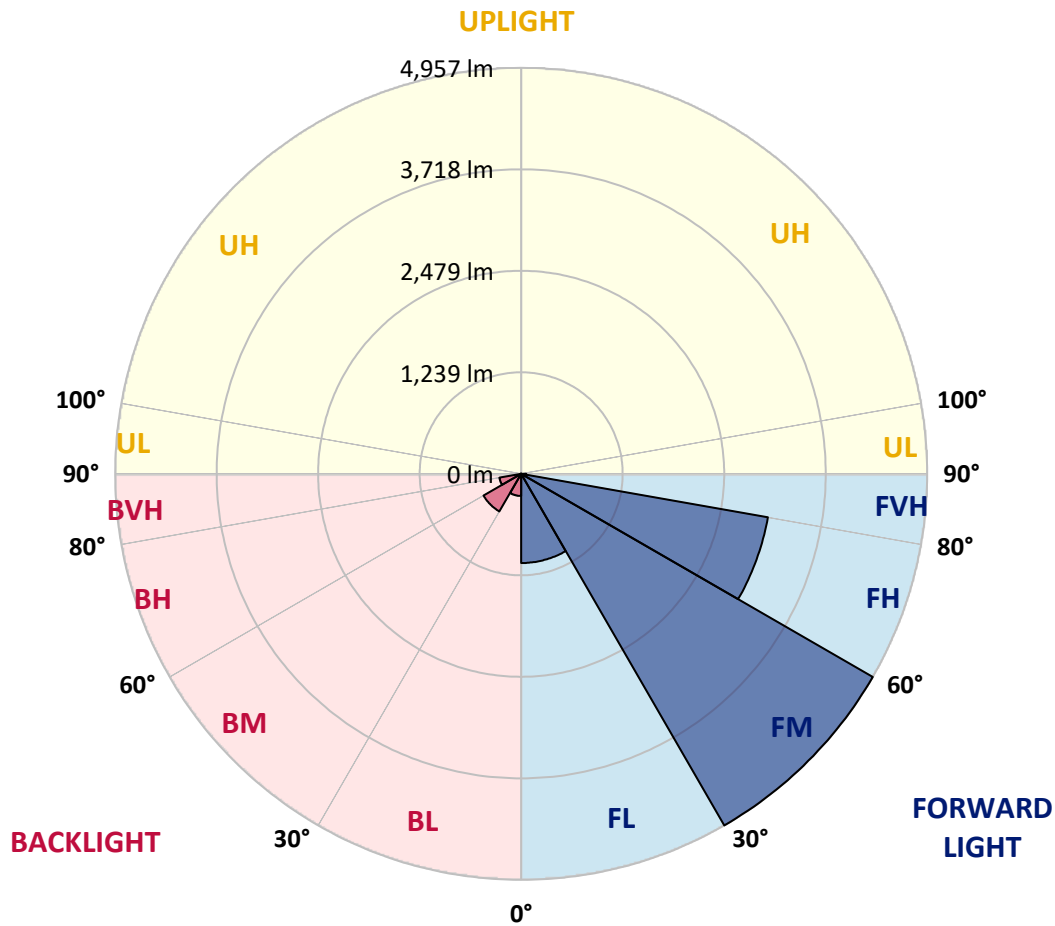
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1089.2	10.6			
FM	(30°-60°)	4957.5	48.4			
FH	(60°-80°)	3058.9	29.8			G2/5000
FVH	(80°-90°)	61.1	0.6			G1/100
BL	(0°-30°)	270.8	2.6	B1/500		
BM	(30°-60°)	530.3	5.2	B1/1000		
BH	(60°-80°)	270.0	2.6	B1/500		G1/500
BVH	(80°-90°)	13.2	0.1			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°	45°	55°	65°	66°	75°	85°
0°	1356.7	1356.7	1356.7	1356.7	1356.7	1356.7	1356.7	1356.7	1356.7	1356.7	1356.7
2.5°	1584.6	1597.5	1603.9	1606.1	1556.6	1535.1	1513.6	1464.2	1453.4	1425.5	1388.9
5°	1864.1	1881.3	1877.0	1868.4	1808.2	1739.4	1683.5	1591.0	1576.0	1509.3	1427.6
7.5°	2139.3	2154.3	2150.0	2117.8	2051.1	1954.4	1861.9	1726.5	1705.0	1597.5	1466.3
10°	2369.3	2382.2	2380.1	2347.8	2268.3	2150.0	2038.2	1857.6	1831.8	1679.2	1498.6
12.5°	2558.5	2575.7	2573.6	2552.1	2481.1	2352.1	2225.3	2008.1	1975.9	1778.1	1543.7
15°	2706.9	2728.4	2728.4	2719.8	2670.3	2562.8	2418.8	2173.7	2135.0	1892.0	1599.6
17.5°	2797.2	2814.4	2829.4	2844.5	2810.1	2728.4	2597.2	2339.2	2298.4	2003.8	1657.7
20°	2844.5	2861.7	2872.4	2904.7	2911.1	2870.3	2767.1	2502.6	2459.6	2130.7	1724.3
22.5°	2921.9	2936.9	2939.1	2967.0	2979.9	2990.7	2926.2	2663.9	2629.5	2270.4	1799.6
25°	3050.9	3068.1	3061.6	3074.5	3076.7	3089.6	3083.1	2848.8	2814.4	2429.5	1889.9
27.5°	3216.4	3237.9	3233.6	3220.7	3201.4	3190.6	3218.6	3035.8	3003.6	2588.6	1982.3
30°	3394.9	3420.7	3414.2	3388.4	3336.8	3291.7	3330.4	3212.1	3182.0	2752.0	2085.5
32.5°	3575.5	3605.6	3603.4	3560.4	3472.3	3394.9	3452.9	3377.7	3356.2	2928.3	2197.3
35°	3693.7	3732.4	3728.1	3702.3	3588.4	3521.7	3592.7	3547.5	3532.5	3143.3	2358.6
37.5°	3885.1	3925.9	3889.4	3824.9	3693.7	3659.3	3745.3	3738.9	3728.1	3371.2	2528.4
40°	4349.5	4409.7	4312.9	4048.5	3833.5	3803.4	3925.9	3951.7	3941.0	3597.0	2681.1
42.5°	4835.4	4925.7	4775.2	4409.7	4087.2	3977.5	4123.7	4160.3	4147.4	3790.5	2818.7
45°	5130.0	5168.7	5018.2	4734.3	4536.5	4188.2	4334.4	4394.6	4383.9	4022.7	2995.0
47.5°	5370.8	5355.7	5183.7	4992.4	5028.9	4484.9	4573.1	4691.3	4682.7	4278.5	3188.5
50°	5422.4	5388.0	5319.2	5198.8	5295.5	4785.9	4824.6	5028.9	5020.3	4562.3	3384.1
52.5°	5059.0	5013.9	5200.9	5302.0	5269.7	5005.3	5102.0	5398.7	5394.4	4869.8	3571.2
55°	4151.7	4115.1	4618.2	5140.7	5241.8	5160.1	5409.5	5783.6	5807.2	5196.6	3741.0
57.5°	3265.9	3227.2	3721.7	4736.5	5138.6	5302.0	5768.5	6224.3	6254.4	5551.4	3902.3
60°	2603.7	2545.6	2924.0	4100.1	4945.0	5411.6	6114.7	6708.1	6712.4	5876.0	4001.2
62.5°	1769.5	1705.0	2124.2	3293.8	4620.4	5428.8	6381.3	7125.2	7142.4	6119.0	4018.4
65°	1075.0	1021.3	1305.1	2405.9	4140.9	5282.6	6385.6	7432.6	7447.7	6230.8	3915.2
67.5°	623.5	602.0	746.1	1498.6	3345.4	4889.1	6116.8	7385.3	7413.3	6183.5	3680.8
70°	363.4	361.2	415.0	741.8	2360.7	4108.7	5517.0	6987.6	7028.4	5936.2	3321.8
72.5°	266.6	270.9	292.4	397.8	1367.4	2958.4	4672.0	6187.8	6250.1	5452.5	2810.1
75°	210.7	212.9	232.2	270.9	718.1	1672.7	3500.2	4966.5	5016.0	4590.3	2195.2
77.5°	157.0	161.3	176.3	191.4	333.3	767.6	1969.4	3059.5	2977.8	2519.8	1060.0
80°	114.0	124.7	131.2	137.6	176.3	296.7	591.3	1066.4	1057.8	1100.8	501.0
82.5°	73.1	81.7	88.2	92.5	105.4	141.9	176.3	238.7	258.0	427.9	200.0
85°	32.3	36.6	40.9	49.5	45.2	49.5	73.1	47.3	40.9	64.5	36.6
87.5°	0.0	0.0	6.5	10.8	8.6	4.3	12.9	8.6	6.5	6.5	6.5
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°	1356.7	1356.7	1356.7	1356.7	1356.7	1356.7	1356.7	1356.7	1356.7	1356.7	1356.7
2.5°	1369.6	1345.9	1296.5	1249.2	1221.2	1184.7	1152.4	1122.3	1120.2	1111.6	1096.5
5°	1386.8	1341.6	1249.2	1161.0	1094.4	1023.4	963.2	915.9	898.7	885.8	868.6
7.5°	1404.0	1333.0	1195.4	1066.4	961.1	862.2	791.2	726.7	707.4	690.2	679.4
10°	1410.4	1318.0	1133.1	961.1	823.5	718.1	642.9	595.6	578.4	569.8	563.3
12.5°	1429.8	1309.4	1075.0	862.2	703.1	606.3	552.6	524.6	518.2	511.7	505.3
15°	1455.6	1309.4	1017.0	765.4	608.5	531.1	498.8	479.5	475.2	473.0	468.7
17.5°	1483.5	1309.4	961.1	683.7	539.7	481.6	458.0	447.2	445.1	442.9	440.8
20°	1522.2	1311.5	900.9	612.8	490.2	445.1	425.7	412.8	410.7	408.5	408.5
22.5°	1560.9	1315.8	842.8	559.0	458.0	417.1	393.5	380.6	376.3	376.3	376.3
25°	1610.4	1328.7	789.1	513.9	430.0	391.3	361.2	350.5	348.3	348.3	346.2
27.5°	1668.4	1343.8	741.8	479.5	402.1	361.2	331.1	320.4	316.1	316.1	313.9
30°	1730.8	1358.8	703.1	453.7	374.1	331.1	303.2	290.3	286.0	288.1	286.0
32.5°	1799.6	1380.3	673.0	436.5	348.3	305.3	279.5	264.5	262.3	262.3	260.2
35°	1915.7	1440.5	668.7	427.9	326.8	286.0	260.2	245.1	243.0	243.0	240.8
37.5°	2040.4	1509.3	688.0	423.6	309.6	268.8	245.1	230.1	227.9	227.9	227.9
40°	2145.7	1560.9	709.5	423.6	298.9	253.7	232.2	219.3	219.3	219.3	219.3
42.5°	2216.7	1565.2	705.2	423.6	290.3	243.0	223.6	210.7	210.7	212.9	210.7
45°	2322.0	1586.7	688.0	417.1	283.8	234.4	215.0	204.3	202.1	204.3	204.3
47.5°	2446.7	1625.4	670.8	391.3	281.7	225.8	208.6	195.7	193.5	195.7	193.5
50°	2565.0	1659.8	662.2	356.9	277.4	217.2	200.0	187.1	184.9	187.1	184.9
52.5°	2663.9	1674.9	647.2	333.3	266.6	208.6	191.4	178.5	174.2	176.3	176.3
55°	2743.4	1670.6	625.7	313.9	247.3	200.0	180.6	169.9	163.4	163.4	161.3
57.5°	2816.5	1672.7	606.3	294.6	225.8	187.1	172.0	159.1	150.5	148.4	146.2
60°	2844.5	1662.0	571.9	268.8	204.3	176.3	161.3	146.2	137.6	135.5	133.3
62.5°	2805.8	1623.3	526.8	223.6	184.9	163.4	150.5	135.5	126.9	124.7	122.6
65°	2696.1	1550.2	458.0	176.3	167.7	148.4	137.6	126.9	116.1	111.8	109.7
67.5°	2509.1	1444.8	372.0	141.9	148.4	135.5	129.0	116.1	103.2	98.9	96.8
70°	2242.5	1305.1	279.5	120.4	131.2	120.4	116.1	103.2	92.5	88.2	86.0
72.5°	1868.4	1079.3	195.7	103.2	114.0	105.4	101.1	92.5	81.7	75.3	75.3
75°	1412.6	774.0	129.0	88.2	94.6	90.3	83.9	77.4	71.0	66.7	64.5
77.5°	608.5	301.0	79.6	66.7	77.4	75.3	66.7	62.4	60.2	55.9	55.9
80°	262.3	122.6	49.5	49.5	55.9	53.8	51.6	47.3	47.3	45.2	43.0
82.5°	96.8	49.5	30.1	36.6	40.9	36.6	36.6	36.6	36.6	34.4	34.4
85°	23.7	15.1	15.1	21.5	23.7	21.5	23.7	21.5	21.5	21.5	19.4
87.5°	6.5	6.5	8.6	8.6	8.6	8.6	8.6	6.5	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)