

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: P835811

Luminaire Tested: **ARCH3-100-727-U-T2R-HSS**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P835811
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-329-2)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-100-727-U-T2R-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 805mA LIGHTSQUARE WITH 40 LEDS AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10734 lumens
Efficiency: N/A
Efficacy: 104.6 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 102.6
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

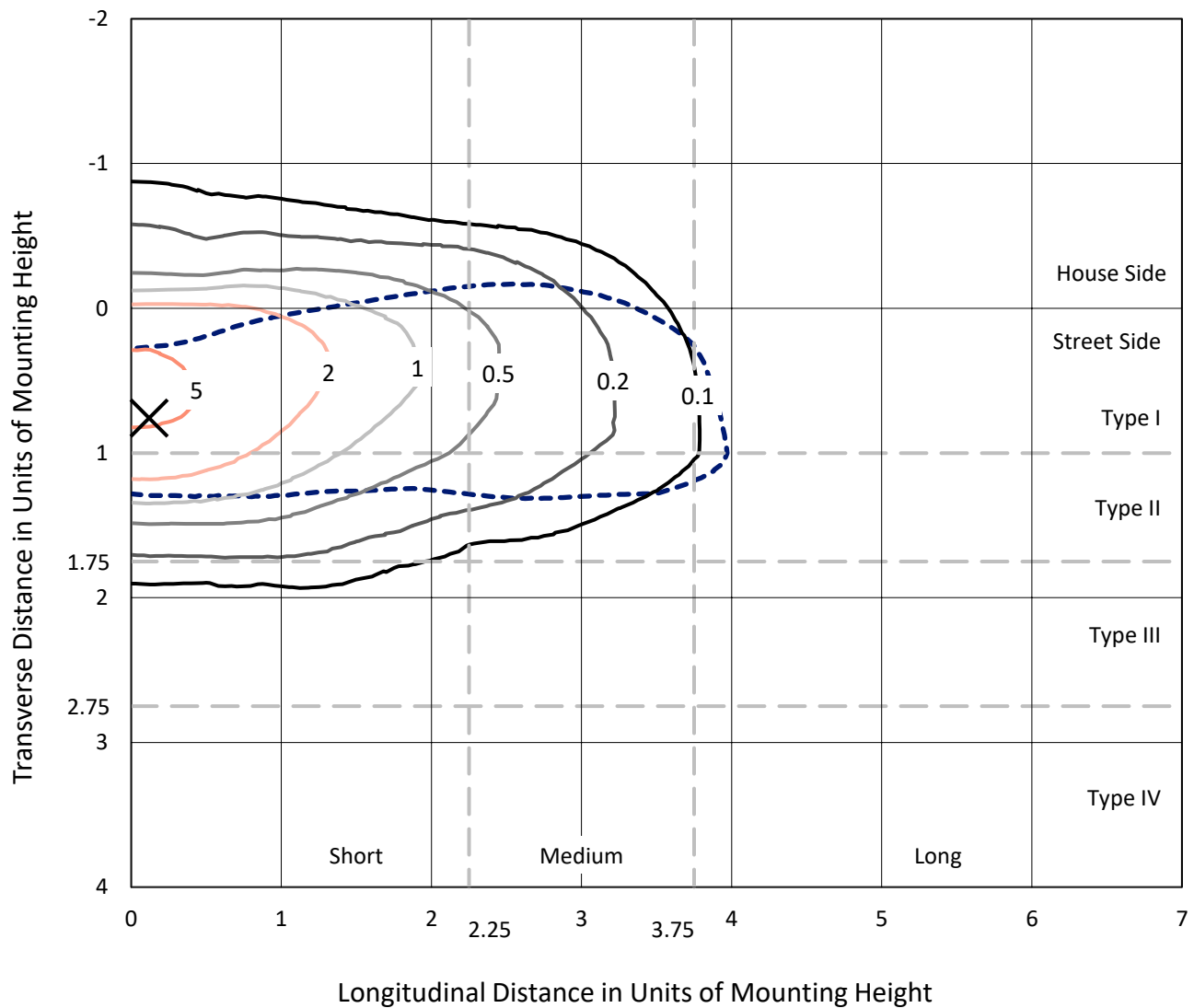


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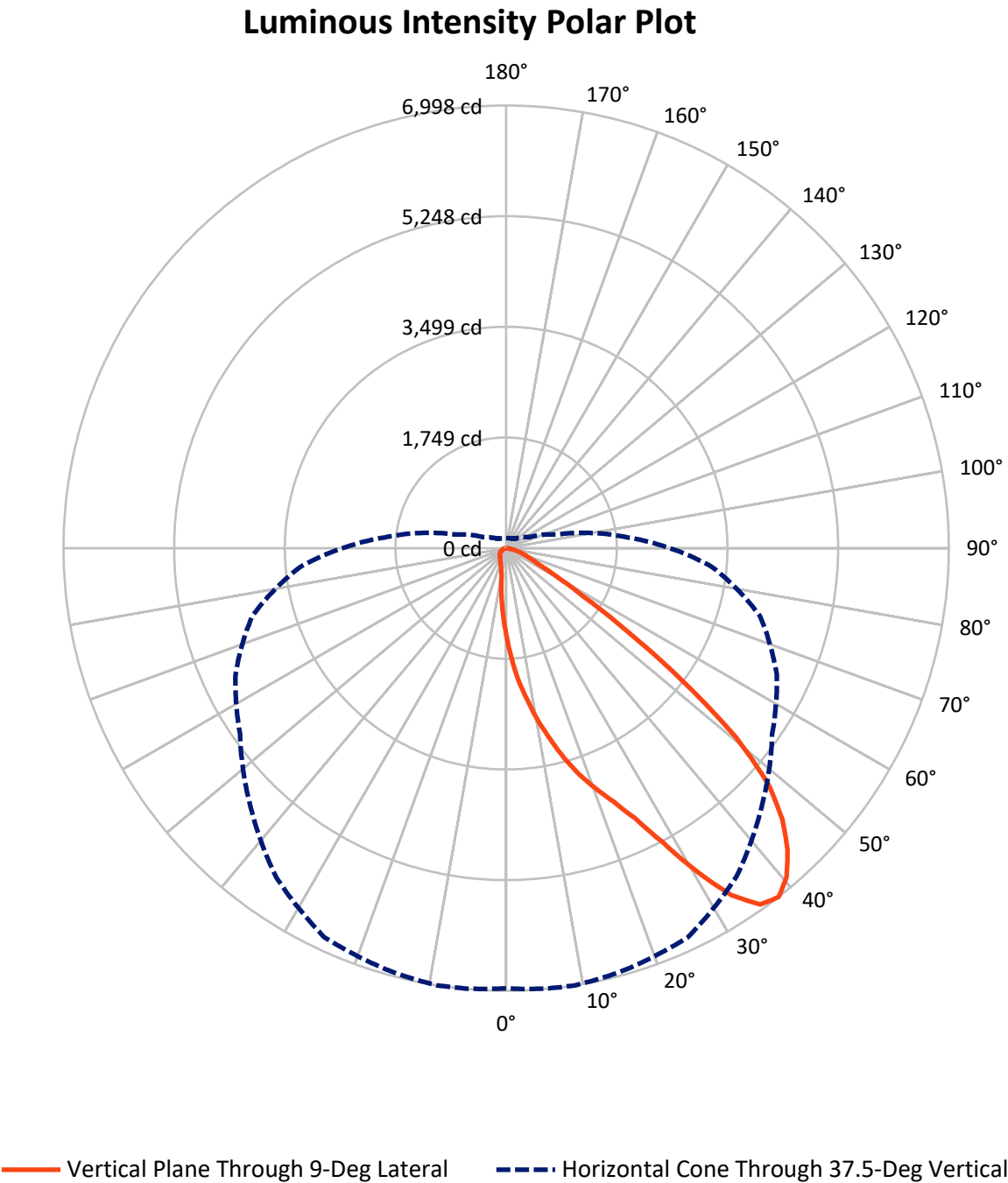
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 fc
Type II - Short - N/A

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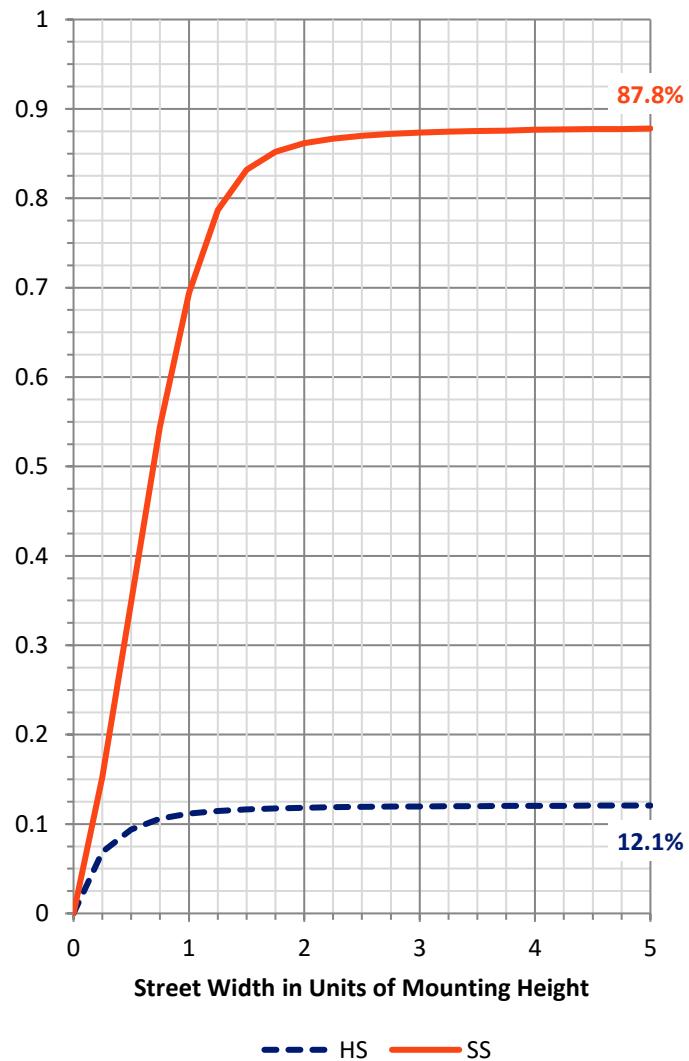
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1305.4	0.0	1305.4
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	9428.5	0.0	9428.5
	% Fixture	87.8	0.0	87.8
Total	Lumens	10734.0	0.0	10734.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.6	1.3
10°-20°	495.7	4.6
20°-30°	1018.6	9.5
30°-40°	1800.4	16.8
40°-50°	2391.7	22.3
50°-60°	2268.3	21.1
60°-70°	1730.5	16.1
70°-80°	839.0	7.8
80°-90°	47.2	0.4
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°	10734.0	100.0
0°-180°	10734.0	100.0

Coefficient of Utilization



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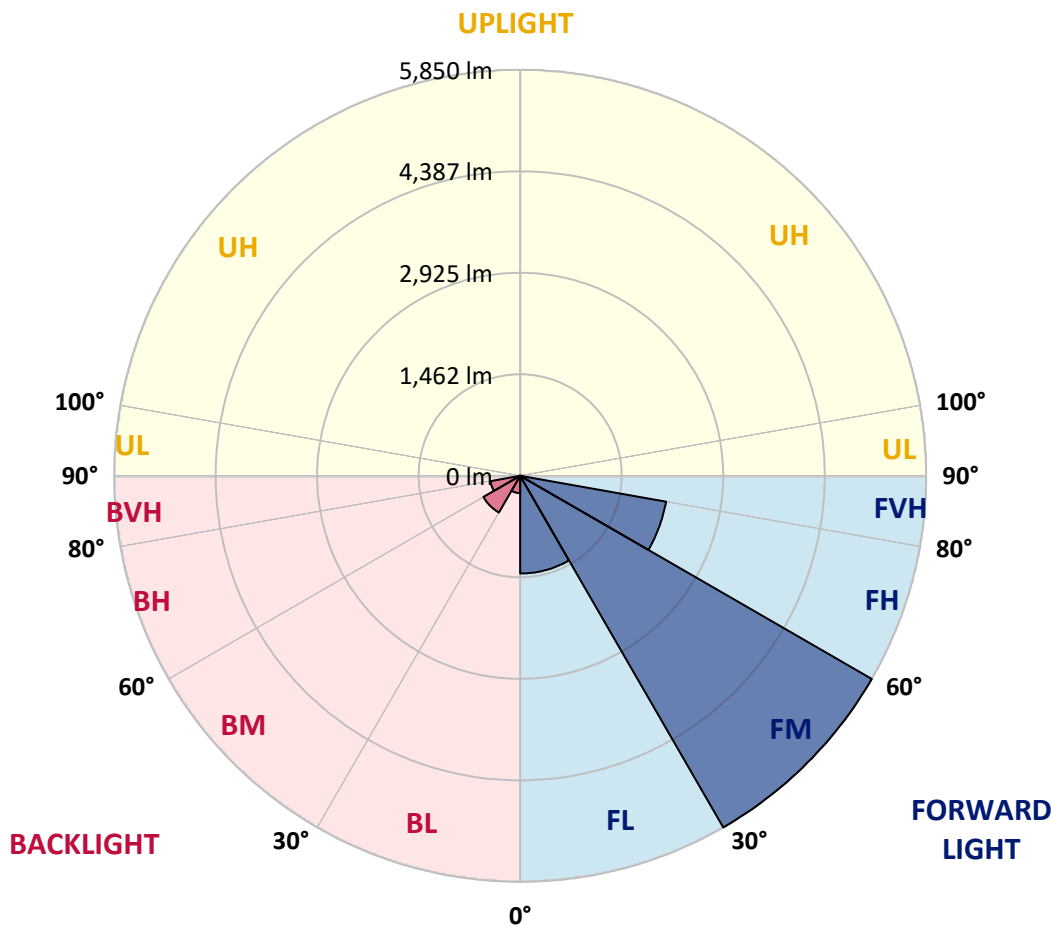
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1407.8	13.1			
FM	(30°-60°)	5849.5	54.5			
FH	(60°-80°)	2133.9	19.9			G2/5000
FVH	(80°-90°)	37.4	0.3			G1/100
BL	(0°-30°)	249.1	2.3	B1/500		
BM	(30°-60°)	610.9	5.7	B1/1000		
BH	(60°-80°)	435.6	4.1	B1/500		G1/500
BVH	(80°-90°)	9.8	0.1			G0/10
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°	9°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1418.9	1418.9	1418.9	1418.9	1418.9	1418.9	1418.9	1418.9	1418.9	1418.9	1418.9
2.5°	1758.2	1727.4	1762.6	1758.2	1727.4	1707.5	1645.8	1626.0	1553.3	1500.4	1454.2
5°	2119.5	2088.7	2119.5	2110.7	2066.7	2018.2	1916.8	1850.7	1720.8	1606.2	1502.6
7.5°	2419.2	2419.2	2432.4	2434.6	2381.7	2306.8	2181.2	2082.1	1899.2	1723.0	1557.7
10°	2743.1	2745.3	2773.9	2754.1	2683.6	2582.2	2423.6	2298.0	2077.7	1846.3	1610.6
12.5°	3089.0	3091.2	3100.0	3091.2	3007.5	2877.5	2685.8	2520.5	2267.2	1987.3	1683.3
15°	3434.9	3437.1	3448.1	3432.7	3340.2	3188.1	2970.0	2767.3	2467.7	2146.0	1771.4
17.5°	3758.8	3763.2	3772.0	3752.2	3655.2	3474.6	3252.0	3007.5	2681.4	2315.6	1870.6
20°	4049.6	4054.0	4060.6	4034.2	3937.2	3756.6	3516.4	3260.8	2899.5	2489.7	1978.5
22.5°	4342.6	4347.0	4358.1	4322.8	4214.9	4007.7	3772.0	3507.6	3130.8	2681.4	2104.1
25°	4717.2	4721.6	4730.4	4679.7	4532.1	4289.8	4040.8	3769.8	3382.0	2897.3	2258.4
27.5°	5265.8	5261.4	5261.4	5168.9	4915.5	4600.4	4311.8	4036.4	3653.0	3128.6	2428.0
30°	5944.4	5933.4	5926.8	5801.2	5439.9	4950.7	4589.4	4285.4	3913.0	3373.2	2610.9
32.5°	6552.5	6552.5	6539.3	6407.1	6023.7	5422.2	4884.6	4527.7	4164.2	3620.0	2800.4
35°	6911.7	6927.1	6920.5	6821.3	6541.5	5929.0	5283.4	4818.5	4428.6	3877.8	3027.3
37.5°	6960.1	6991.0	6997.6	6938.1	6790.5	6343.2	5726.3	5133.6	4719.4	4155.4	3247.6
40°	6764.0	6830.1	6830.1	6821.3	6768.4	6539.3	6098.6	5499.4	5019.0	4444.0	3470.1
42.5°	6462.2	6530.5	6521.7	6554.7	6541.5	6493.0	6308.0	5840.9	5318.7	4741.4	3672.8
45°	6067.8	6138.3	6120.7	6180.2	6206.6	6259.5	6285.9	6078.8	5613.9	5065.3	3899.8
47.5°	5435.5	5554.4	5580.9	5686.6	5796.8	5962.0	6087.6	6164.7	5889.3	5413.4	4146.6
50°	4501.3	4668.7	4721.6	4944.1	5246.0	5587.5	5790.2	6059.0	6083.2	5770.4	4413.1
52.5°	3223.4	3417.3	3498.8	3864.5	4485.9	5080.7	5446.5	5825.4	6158.1	6111.9	4701.8
55°	2084.3	2249.5	2328.9	2672.6	3498.8	4433.0	5041.1	5523.6	6116.3	6424.7	5032.3
57.5°	1284.5	1379.2	1432.1	1727.4	2487.5	3602.3	4510.1	5246.0	5988.5	6695.7	5376.0
60°	865.9	921.0	947.4	1086.2	1689.9	2692.4	3780.8	4955.2	5821.0	6878.6	5688.8
62.5°	575.1	592.7	619.1	705.0	1114.9	1890.4	2903.9	4435.2	5695.4	6889.6	5920.2
65°	445.1	453.9	464.9	502.3	687.4	1322.0	2042.4	3593.5	5508.2	6656.1	5992.9
67.5°	350.3	359.1	372.4	392.2	497.9	896.7	1390.3	2632.9	5124.8	6290.3	5873.9
70°	275.4	282.0	290.8	308.5	387.8	650.0	918.8	1749.4	4351.5	5942.2	5499.4
72.5°	218.1	224.7	233.5	251.2	315.1	475.9	630.1	1090.6	3355.6	5517.0	4778.9
75°	171.9	176.3	182.9	200.5	253.4	370.1	427.4	652.2	2280.4	4739.2	3723.5
77.5°	85.9	105.8	121.2	138.8	185.1	255.6	284.2	361.3	962.8	2432.4	1775.8
80°	50.7	61.7	66.1	77.1	121.2	154.2	154.2	145.4	304.1	934.2	724.9
82.5°	28.6	39.7	41.9	44.1	72.7	88.1	70.5	52.9	61.7	312.9	211.5
85°	8.8	13.2	15.4	17.6	24.2	26.4	24.2	22.0	17.6	30.8	19.8
87.5°	0.0	0.0	0.0	0.0	2.2	4.4	4.4	4.4	6.6	6.6	6.6
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°	1418.9	1418.9	1418.9	1418.9	1418.9	1418.9	1418.9	1418.9	1418.9	1418.9	1418.9
2.5°	1427.7	1399.1	1344.0	1293.3	1244.8	1209.6	1176.5	1145.7	1123.7	1106.0	1103.8
5°	1447.5	1390.3	1284.5	1185.4	1095.0	1020.1	956.2	905.5	868.1	841.6	839.4
7.5°	1474.0	1385.9	1225.0	1077.4	943.0	835.0	742.5	674.2	625.7	605.9	590.5
10°	1496.0	1381.4	1165.5	969.4	793.2	656.6	546.4	478.1	442.9	429.6	423.0
12.5°	1533.5	1385.9	1114.9	870.3	663.2	502.3	418.6	381.2	365.7	354.7	352.5
15°	1588.6	1405.7	1066.4	773.3	531.0	405.4	356.9	332.7	317.3	315.1	312.9
17.5°	1643.6	1423.3	1022.3	674.2	440.7	352.5	319.5	299.6	288.6	286.4	286.4
20°	1707.5	1445.3	973.8	579.5	376.8	317.3	290.8	275.4	262.2	260.0	260.0
22.5°	1782.4	1476.2	927.6	495.7	334.9	290.8	268.8	251.2	240.2	238.0	238.0
25°	1883.8	1522.5	890.1	434.0	306.3	268.8	249.0	233.5	224.7	220.3	220.3
27.5°	1996.2	1586.4	863.7	396.6	286.4	251.2	231.3	218.1	209.3	204.9	204.9
30°	2121.7	1656.9	846.1	381.2	275.4	235.7	218.1	204.9	193.9	191.7	191.7
32.5°	2260.6	1738.4	835.0	383.4	273.2	224.7	204.9	191.7	182.9	178.5	178.5
35°	2414.8	1828.7	828.4	396.6	277.6	215.9	193.9	180.7	171.9	167.4	167.4
37.5°	2586.6	1934.5	828.4	409.8	288.6	213.7	182.9	169.7	163.0	158.6	158.6
40°	2747.5	2046.8	837.2	425.2	299.6	213.7	174.1	163.0	154.2	149.8	149.8
42.5°	2873.1	2110.7	843.9	440.7	306.3	211.5	165.2	154.2	147.6	143.2	143.2
45°	3016.3	2179.0	830.6	447.3	306.3	207.1	158.6	147.6	141.0	136.6	136.6
47.5°	3174.9	2262.8	828.4	451.7	299.6	198.3	152.0	141.0	136.6	132.2	132.2
50°	3335.7	2355.3	832.8	449.5	290.8	185.1	143.2	136.6	130.0	125.6	125.6
52.5°	3518.6	2452.2	841.6	445.1	271.0	169.7	136.6	130.0	123.4	119.0	116.8
55°	3721.3	2558.0	859.3	436.2	244.6	154.2	130.0	123.4	114.6	110.2	108.0
57.5°	3954.9	2688.0	879.1	418.6	215.9	141.0	123.4	114.6	101.4	94.7	92.5
60°	4177.4	2835.6	901.1	376.8	187.3	127.8	116.8	103.6	90.3	85.9	83.7
62.5°	4386.7	2981.0	912.2	301.8	158.6	116.8	110.2	94.7	81.5	77.1	74.9
65°	4521.1	3139.7	887.9	204.9	130.0	108.0	101.4	88.1	74.9	68.3	68.3
67.5°	4529.9	3214.6	804.2	134.4	105.8	96.9	92.5	79.3	66.1	61.7	59.5
70°	4307.4	3102.2	614.7	105.8	88.1	83.7	83.7	70.5	57.3	52.9	50.7
72.5°	3796.2	2747.5	392.2	85.9	74.9	70.5	70.5	59.5	50.7	44.1	41.9
75°	2996.4	2119.5	209.3	70.5	61.7	59.5	55.1	48.5	41.9	37.5	35.3
77.5°	1377.0	934.2	96.9	50.7	46.3	46.3	41.9	35.3	33.0	28.6	28.6
80°	544.2	317.3	48.5	33.0	30.8	30.8	30.8	24.2	24.2	19.8	17.6
82.5°	149.8	66.1	24.2	19.8	19.8	19.8	17.6	15.4	15.4	13.2	13.2
85°	15.4	11.0	11.0	11.0	11.0	8.8	8.8	6.6	4.4	4.4	4.4
87.5°	6.6	6.6	6.6	6.6	6.6	4.4	2.2	0.0	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)