

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: P835880

Luminaire Tested: **ARCH3-110-722-U-T4W-HSS**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P835880
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: ARCH3-110-722-U-T4W-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2200K, 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: 10143 lumens
Efficiency: N/A
Efficacy: 90.6 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

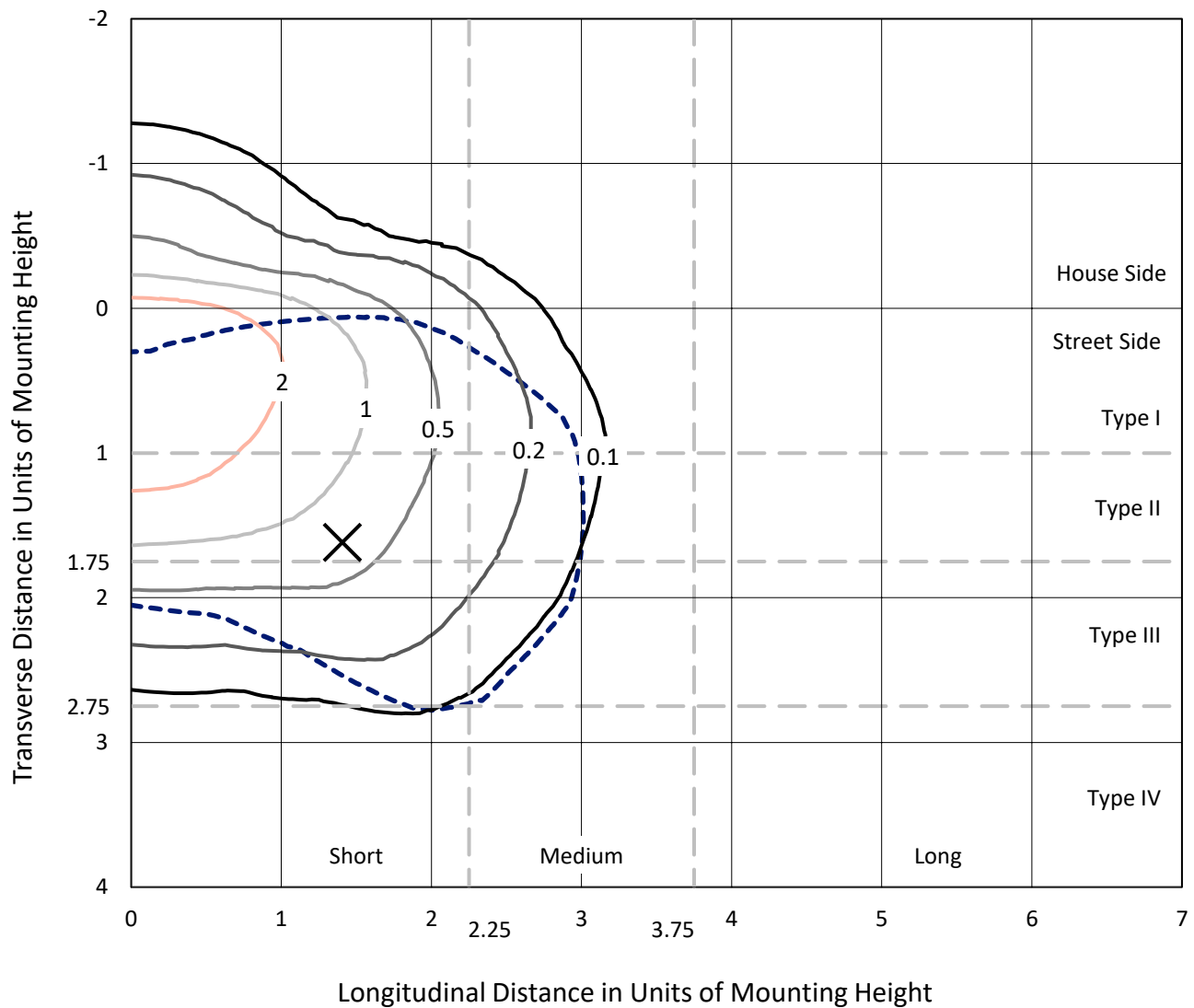


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

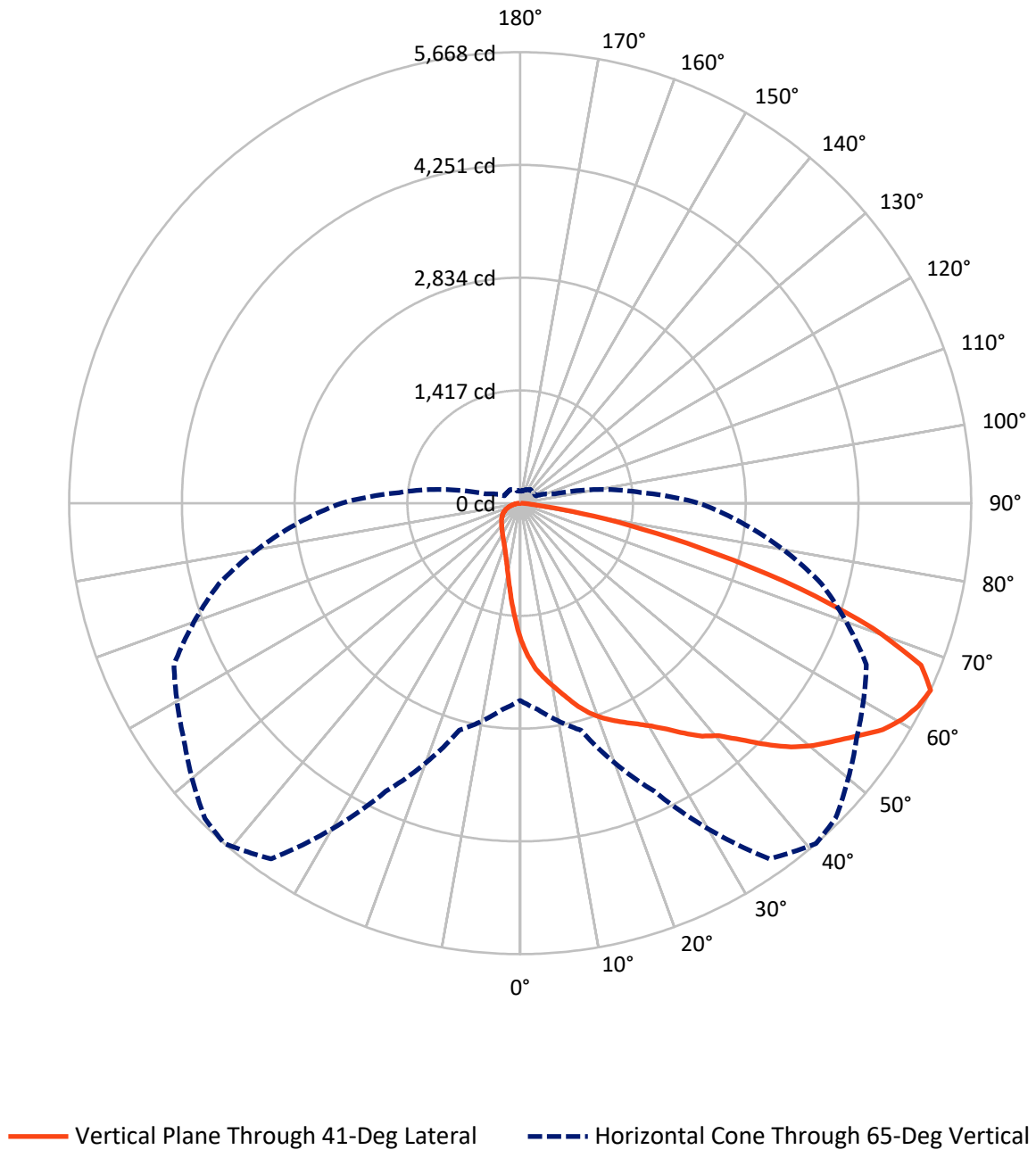


Based on 25 foot mounting height. Maximum calculated value = 4 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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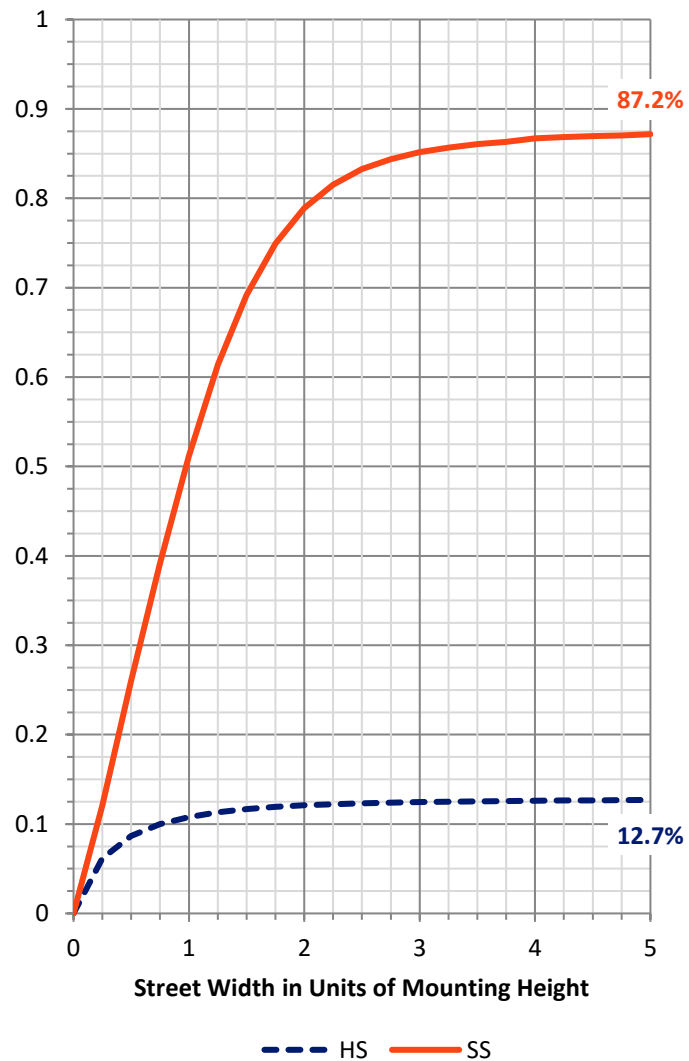
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1302.2	0.0	1302.2
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	8840.8	0.0	8840.8
	% Fixture	87.2	0.0	87.2
Total	Lumens	10143.0	0.0	10143.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.0	1.6
10°-20°	482.9	4.8
20°-30°	830.7	8.2
30°-40°	1259.9	12.4
40°-50°	1845.8	18.2
50°-60°	2330.8	23.0
60°-70°	2185.6	21.5
70°-80°	974.1	9.6
80°-90°	72.2	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°	10143.0	100.0
0°-180°	10143.0	100.0

Coefficient of Utilization



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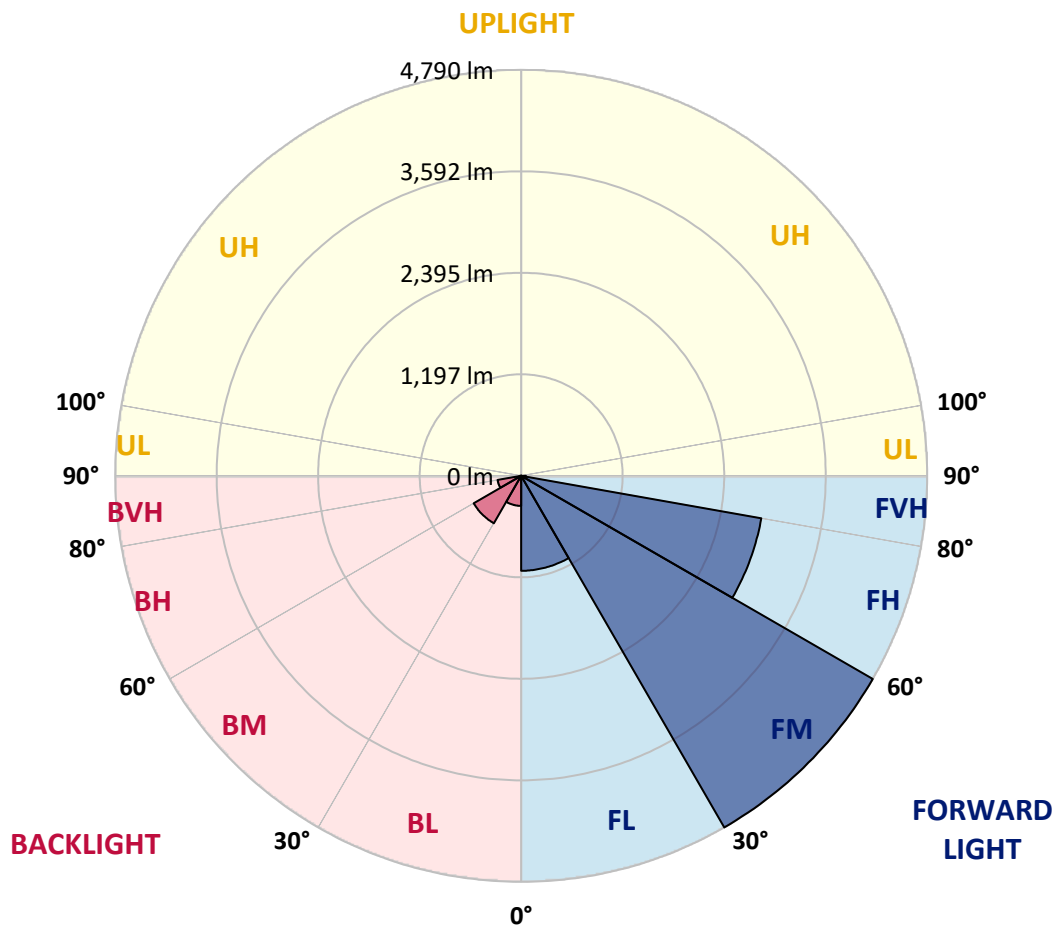
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1120.2	11.0			
FM	(30°-60°)	4789.9	47.2			
FH	(60°-80°)	2876.8	28.4			G2/5000
FVH	(80°-90°)	53.9	0.5			G1/100
BL	(0°-30°)	354.4	3.5	B1/500		
BM	(30°-60°)	646.6	6.4	B1/1000		
BH	(60°-80°)	282.9	2.8	B1/500		G1/500
BVH	(80°-90°)	18.3	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°	1728.3	1728.3	1728.3	1728.3	1728.3	1728.3	1728.3	1728.3	1728.3	1728.3	1728.3
2.5°	1993.6	1987.1	1982.9	1959.3	1959.3	1927.2	1929.4	1899.4	1863.1	1805.3	1743.3
5°	2181.8	2173.2	2162.5	2139.0	2130.4	2098.4	2094.1	2051.3	1989.3	1888.7	1777.5
7.5°	2346.5	2337.9	2323.0	2288.7	2265.2	2226.7	2216.0	2160.4	2091.9	1967.9	1811.7
10°	2496.2	2489.8	2470.5	2427.8	2395.7	2348.6	2329.4	2254.5	2168.9	2032.1	1839.5
12.5°	2648.1	2639.5	2613.9	2577.5	2539.0	2483.4	2459.9	2363.6	2254.5	2102.6	1880.2
15°	2789.3	2776.4	2757.2	2718.7	2684.4	2631.0	2605.3	2491.9	2359.3	2181.8	1933.7
17.5°	2881.2	2870.5	2853.4	2832.0	2804.2	2763.6	2737.9	2626.7	2464.1	2258.8	1989.3
20°	2936.9	2932.6	2926.2	2913.3	2900.5	2872.7	2853.4	2748.6	2577.5	2333.7	2042.7
22.5°	2979.6	2975.4	2973.2	2973.2	2975.4	2964.7	2951.8	2862.0	2686.6	2412.8	2091.9
25°	3045.9	3043.8	3039.5	3035.2	3050.2	3052.4	3048.1	2986.0	2823.5	2517.6	2154.0
27.5°	3137.9	3131.5	3122.9	3118.7	3133.6	3144.3	3152.9	3110.1	2968.9	2624.6	2224.6
30°	3279.1	3259.8	3238.5	3223.5	3234.2	3251.3	3270.5	3244.9	3118.7	2757.2	2297.3
32.5°	3445.9	3422.4	3373.2	3345.4	3373.2	3386.0	3401.0	3388.2	3274.8	2900.5	2370.0
35°	3649.1	3621.3	3570.0	3529.4	3578.6	3550.7	3544.3	3531.5	3422.4	3041.7	2451.3
37.5°	3987.1	3946.5	3865.2	3775.3	3775.3	3715.4	3691.9	3653.4	3555.0	3167.9	2530.4
40°	4378.5	4325.1	4220.3	4087.6	3965.7	3841.6	3826.7	3798.9	3711.2	3313.3	2620.3
42.5°	4808.5	4705.8	4560.4	4399.9	4203.1	4062.0	4027.7	3948.6	3863.0	3460.9	2710.1
45°	5285.5	5071.6	4859.8	4778.5	4453.4	4325.1	4260.9	4117.6	4021.3	3614.9	2804.2
47.5°	5362.5	5195.6	5054.5	5041.6	4686.6	4579.6	4506.9	4301.5	4192.4	3779.6	2902.6
50°	5319.7	5219.2	5234.1	5182.8	4857.7	4787.1	4731.5	4498.3	4361.4	3937.9	2992.5
52.5°	5140.0	5195.6	5281.2	5187.1	5020.2	4962.5	4934.7	4710.1	4519.7	4083.4	3073.7
55°	4926.1	4964.6	5148.6	5264.1	5208.5	5157.1	5131.5	4956.1	4675.9	4205.3	3148.6
57.5°	4613.8	4596.7	4799.9	5251.3	5405.3	5375.3	5347.5	5197.8	4821.3	4293.0	3195.7
60°	4145.4	4109.0	4365.7	4994.6	5469.4	5516.5	5503.7	5358.2	4932.5	4290.8	3176.4
62.5°	3334.7	3424.5	3779.6	4575.3	5497.2	5617.0	5593.5	5371.0	4968.9	4166.8	3054.5
65°	2479.1	2607.4	2956.1	3997.8	5458.7	5668.4	5604.2	5161.4	4799.9	3920.8	2787.1
67.5°	1786.1	1899.4	2154.0	3289.8	5088.7	5433.1	5358.2	4819.2	4410.6	3572.1	2417.1
70°	1221.4	1302.7	1475.9	2395.7	4344.3	4697.2	4650.2	4308.0	3796.7	3157.2	1963.6
72.5°	862.0	896.2	1007.5	1580.7	3300.5	3685.5	3629.9	3544.3	3050.2	2624.6	1527.2
75°	646.0	667.4	727.3	1022.4	2226.7	2554.0	2502.6	2551.8	2278.0	1987.1	1112.3
77.5°	243.8	265.2	412.8	652.4	1317.6	1567.9	1516.6	1546.5	1266.3	1003.2	554.0
80°	66.3	70.6	136.9	310.2	598.9	780.7	710.1	609.6	470.6	462.0	293.0
82.5°	27.8	32.1	62.0	166.8	213.9	213.9	179.7	222.5	179.7	216.0	141.2
85°	10.7	12.8	15.0	42.8	27.8	29.9	32.1	42.8	36.4	44.9	32.1
87.5°	0.0	0.0	0.0	2.1	2.1	4.3	2.1	4.3	6.4	6.4	6.4
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°	1728.3	1728.3	1728.3	1728.3	1728.3	1728.3	1728.3	1728.3	1728.3	1728.3	1728.3
2.5°	1717.6	1694.1	1659.9	1604.3	1546.5	1514.4	1473.8	1467.4	1424.6	1420.3	1403.2
5°	1728.3	1679.1	1591.4	1484.5	1379.7	1298.4	1238.5	1206.4	1144.4	1144.4	1127.3
7.5°	1736.9	1659.9	1518.7	1360.4	1217.1	1108.0	1026.7	992.5	936.9	932.6	919.8
10°	1739.0	1636.3	1439.5	1234.2	1058.8	947.6	868.4	829.9	780.7	776.5	767.9
12.5°	1756.1	1623.5	1369.0	1125.1	945.4	825.7	748.7	716.6	678.1	673.8	665.2
15°	1783.9	1623.5	1309.1	1033.1	844.9	733.7	667.4	637.4	609.6	605.3	601.1
17.5°	1811.7	1619.2	1249.2	947.6	761.5	661.0	603.2	579.7	558.3	556.1	551.9
20°	1837.4	1617.1	1189.3	874.9	697.3	601.1	556.1	534.8	517.6	517.6	515.5
22.5°	1863.1	1612.8	1131.5	806.4	641.7	556.1	517.6	494.1	481.3	481.3	479.1
25°	1901.6	1612.8	1078.1	748.7	596.8	521.9	483.4	466.3	455.6	453.5	453.5
27.5°	1946.5	1625.6	1031.0	697.3	558.3	487.7	457.7	440.6	427.8	423.5	425.7
30°	1995.7	1636.3	988.2	652.4	521.9	462.0	429.9	412.8	400.0	395.7	397.9
32.5°	2044.9	1649.2	949.7	611.8	485.6	438.5	406.4	387.2	374.3	372.2	372.2
35°	2098.4	1662.0	911.2	577.5	455.6	415.0	385.0	363.6	355.1	350.8	352.9
37.5°	2151.8	1683.4	874.9	545.4	434.2	393.6	365.8	344.4	338.0	335.8	335.8
40°	2216.0	1715.5	859.9	524.1	415.0	374.3	350.8	329.4	323.0	323.0	323.0
42.5°	2269.5	1741.1	847.0	500.5	400.0	357.2	335.8	318.7	314.4	312.3	314.4
45°	2323.0	1764.7	829.9	479.1	380.7	340.1	323.0	305.9	301.6	301.6	301.6
47.5°	2376.4	1777.5	806.4	457.7	363.6	325.1	310.2	295.2	290.9	290.9	290.9
50°	2419.2	1788.2	772.2	434.2	344.4	312.3	297.3	282.3	278.1	278.1	278.1
52.5°	2462.0	1790.3	735.8	406.4	325.1	297.3	284.5	269.5	265.2	263.1	263.1
55°	2500.5	1788.2	693.0	374.3	303.7	280.2	269.5	256.7	248.1	239.6	243.8
57.5°	2528.3	1786.1	643.8	342.2	282.3	263.1	258.8	241.7	224.6	203.2	207.5
60°	2517.6	1762.5	590.4	301.6	258.8	246.0	246.0	222.5	192.5	181.8	184.0
62.5°	2449.2	1696.2	534.8	258.8	235.3	228.9	226.7	201.1	177.5	166.8	169.0
65°	2243.8	1529.4	453.5	220.3	211.8	209.6	209.6	186.1	164.7	151.9	154.0
67.5°	1931.5	1283.4	370.0	186.1	188.2	192.5	192.5	171.1	149.7	136.9	139.0
70°	1548.6	1003.2	295.2	160.4	162.6	169.0	173.3	154.0	134.8	121.9	121.9
72.5°	1165.8	761.5	237.4	134.8	145.5	145.5	151.9	136.9	117.6	104.8	107.0
75°	844.9	545.4	188.2	113.4	126.2	124.1	124.1	115.5	100.5	92.0	92.0
77.5°	400.0	286.6	149.7	81.3	98.4	96.3	98.4	92.0	85.6	77.0	79.1
80°	196.8	141.2	96.3	57.8	68.4	70.6	77.0	72.7	70.6	64.2	64.2
82.5°	94.1	55.6	44.9	40.6	47.1	49.2	53.5	53.5	55.6	51.3	51.3
85°	25.7	15.0	19.3	25.7	29.9	32.1	36.4	38.5	38.5	36.4	38.5
87.5°	6.4	6.4	8.6	12.8	15.0	17.1	19.3	19.3	8.6	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)