

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: P836096

Luminaire Tested: **ARCH3-140-722-U-T4W-HSS**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836096
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: ARCH3-140-722-U-T4W-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2200K, 1110mA 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: 12204 lumens
Efficiency: N/A
Efficacy: 85.6 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): 142.5
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

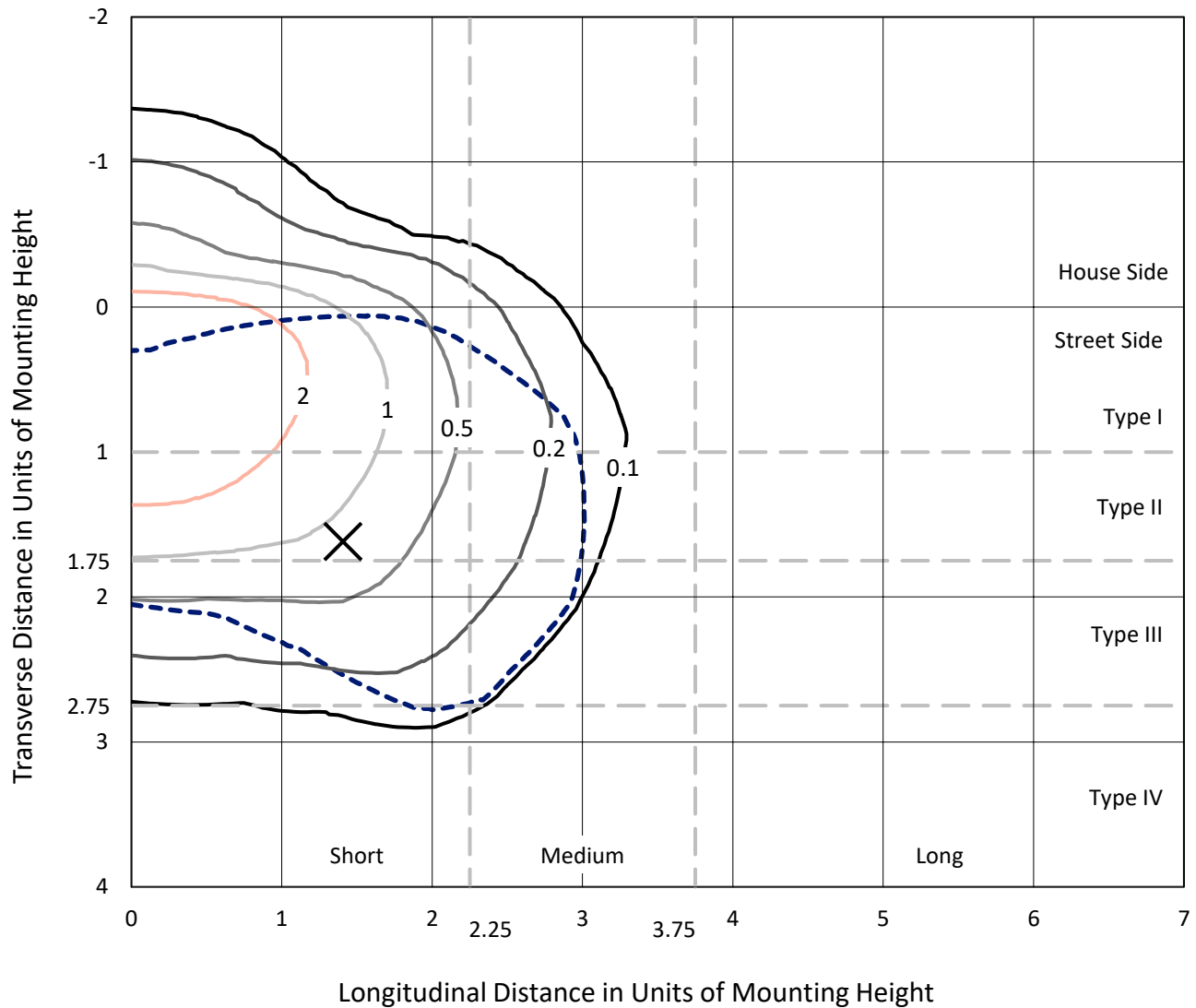


REPORT NUMBER: P836096

CATALOG NUMBER: ARCH3-140-722-U-T4W-HSS

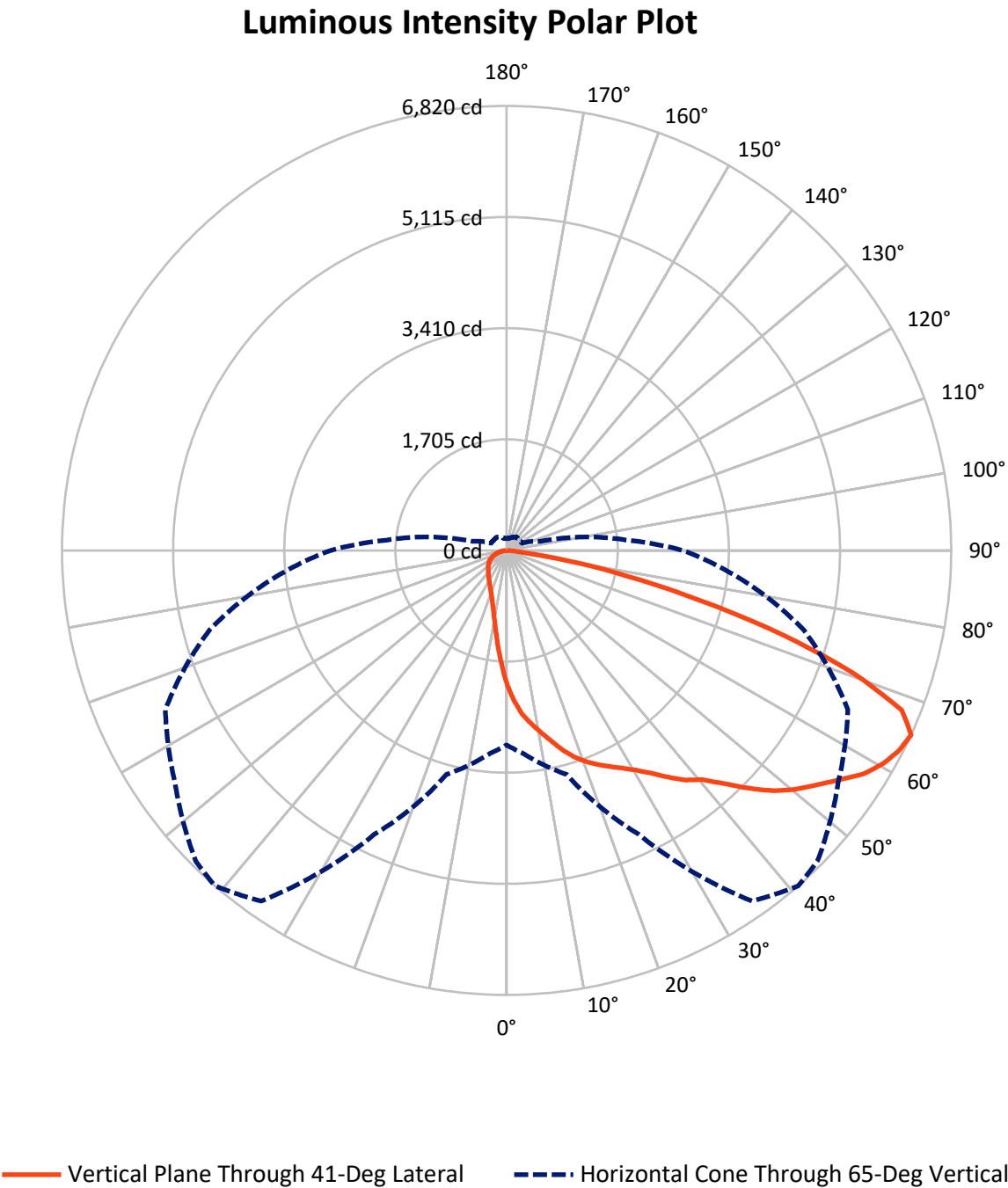
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 fc
Type III - Short - N/A

REPORT NUMBER: P836096
CATALOG NUMBER: ARCH3-140-722-U-T4W-HSS



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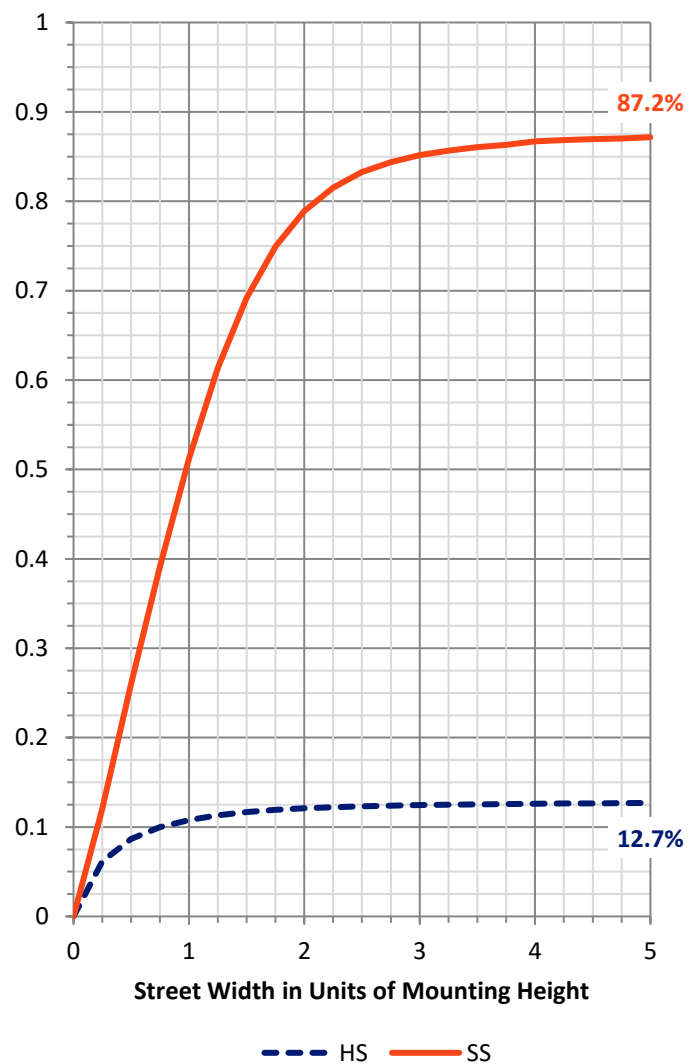
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1566.8	0.0	1566.8
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	10637.2	0.0	10637.2
	% Fixture	87.2	0.0	87.2
Total	Lumens	12204.0	0.0	12204.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	193.8	1.6
10°-20°	581.0	4.8
20°-30°	999.5	8.2
30°-40°	1515.9	12.4
40°-50°	2220.8	18.2
50°-60°	2804.4	23.0
60°-70°	2629.7	21.5
70°-80°	1172.0	9.6
80°-90°	86.8	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°	12204.0	100.0
0°-180°	12204.0	100.0

Coefficient of Utilization



REPORT NUMBER: P836096

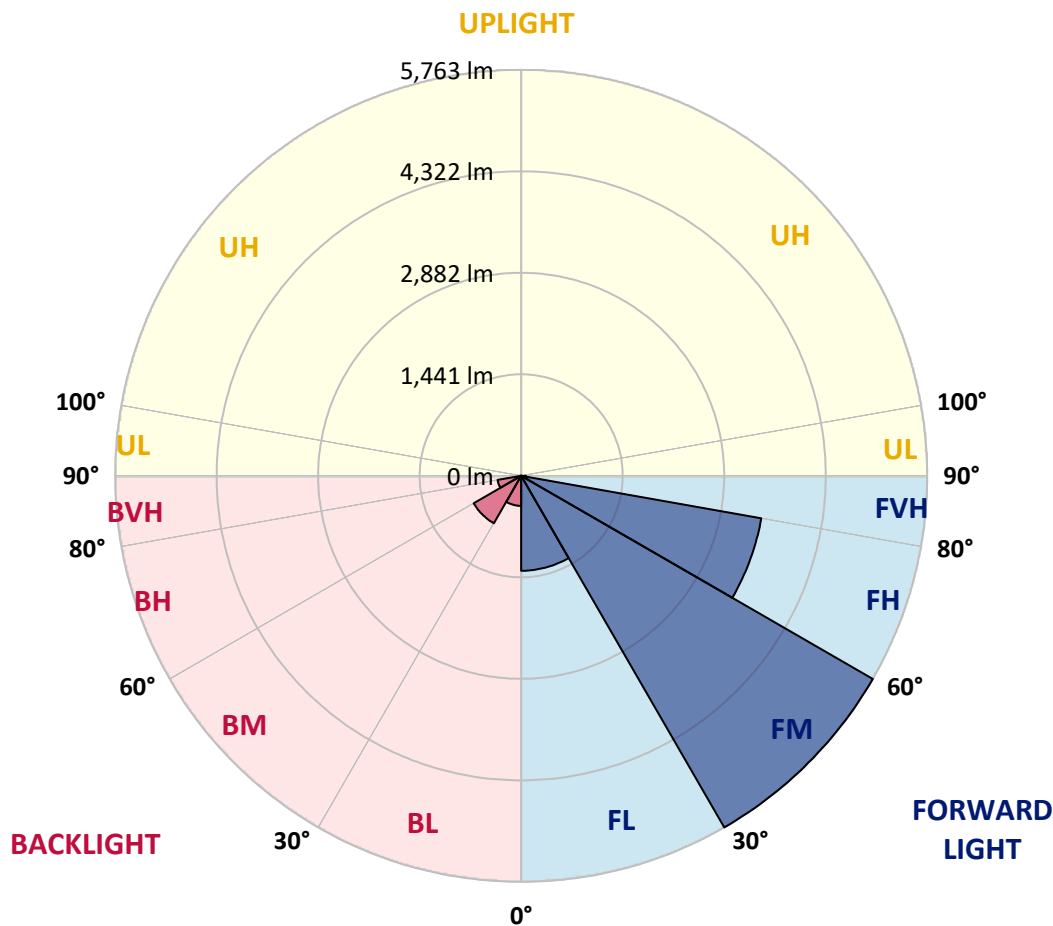
CATALOG NUMBER: ARCH3-140-722-U-T4W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1347.8	11.0			
FM	(30°-60°)	5763.2	47.2			
FH	(60°-80°)	3461.4	28.4			G2/5000
FVH	(80°-90°)	64.8	0.5			G1/100
BL	(0°-30°)	426.5	3.5	B1/500		
BM	(30°-60°)	778.0	6.4	B1/1000		
BH	(60°-80°)	340.4	2.8	B1/500		G1/500
BVH	(80°-90°)	22.0	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



REPORT NUMBER: P836096

CATALOG NUMBER: ARCH3-140-722-U-T4W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	41°	45°	55°	65°	75°	85°
0°	2079.5	2079.5	2079.5	2079.5	2079.5	2079.5	2079.5	2079.5	2079.5	2079.5	2079.5
2.5°	2398.6	2390.9	2385.8	2357.5	2357.5	2318.8	2321.4	2285.4	2241.6	2172.1	2097.5
5°	2625.1	2614.8	2601.9	2573.6	2563.3	2524.7	2519.6	2468.1	2393.5	2272.5	2138.7
7.5°	2823.3	2813.0	2795.0	2753.8	2725.5	2679.2	2666.3	2599.4	2517.0	2367.7	2179.9
10°	3003.4	2995.7	2972.5	2921.1	2882.5	2825.9	2802.7	2712.6	2609.7	2445.0	2213.3
12.5°	3186.2	3175.9	3145.0	3101.2	3054.9	2988.0	2959.7	2843.9	2712.6	2529.9	2262.2
15°	3356.0	3340.6	3317.4	3271.1	3229.9	3165.6	3134.7	2998.3	2838.7	2625.1	2326.6
17.5°	3466.7	3453.8	3433.2	3407.5	3374.0	3325.1	3294.3	3160.4	2964.8	2717.8	2393.5
20°	3533.6	3528.5	3520.7	3505.3	3489.9	3456.4	3433.2	3307.1	3101.2	2807.8	2457.8
22.5°	3585.1	3579.9	3577.4	3577.4	3579.9	3567.1	3551.6	3443.5	3232.5	2903.1	2517.0
25°	3664.9	3662.3	3657.1	3652.0	3670.0	3672.6	3667.4	3592.8	3397.2	3029.2	2591.7
27.5°	3775.5	3767.8	3757.5	3752.4	3770.4	3783.2	3793.5	3742.1	3572.2	3157.9	2676.6
30°	3945.4	3922.2	3896.5	3878.5	3891.3	3911.9	3935.1	3904.2	3752.4	3317.4	2764.1
32.5°	4146.1	4117.8	4058.6	4025.2	4058.6	4074.1	4092.1	4076.6	3940.2	3489.9	2851.6
35°	4390.6	4357.2	4295.4	4246.5	4305.7	4272.2	4264.5	4249.1	4117.8	3659.7	2949.4
37.5°	4797.3	4748.4	4650.6	4542.5	4542.5	4470.4	4442.1	4395.8	4277.4	3811.6	3044.6
40°	5268.2	5203.9	5077.8	4918.2	4771.5	4622.3	4604.2	4570.8	4465.3	3986.6	3152.7
42.5°	5785.5	5662.0	5487.0	5294.0	5057.2	4887.3	4846.2	4750.9	4648.0	4164.1	3260.8
45°	6359.5	6102.1	5847.3	5749.5	5358.3	5203.9	5126.7	4954.2	4838.4	4349.4	3374.0
47.5°	6452.1	6251.4	6081.5	6066.1	5638.8	5510.2	5422.7	5175.6	5044.3	4547.6	3492.4
50°	6400.6	6279.7	6297.7	6235.9	5844.7	5759.8	5692.9	5412.4	5247.6	4738.1	3600.5
52.5°	6184.4	6251.4	6354.3	6241.1	6040.3	5970.8	5937.4	5667.1	5438.1	4913.1	3698.3
55°	5927.1	5973.4	6194.7	6333.7	6266.8	6205.0	6174.2	5963.1	5626.0	5059.8	3788.4
57.5°	5551.3	5530.7	5775.2	6318.3	6503.6	6467.5	6434.1	6253.9	5801.0	5165.3	3845.0
60°	4987.7	4944.0	5252.8	6009.4	6580.8	6637.4	6622.0	6447.0	5934.8	5162.7	3821.8
62.5°	4012.3	4120.4	4547.6	5505.0	6614.2	6758.4	6730.1	6462.4	5978.6	5013.4	3675.2
65°	2982.8	3137.3	3556.8	4810.1	6567.9	6820.1	6742.9	6210.2	5775.2	4717.5	3353.4
67.5°	2149.0	2285.4	2591.7	3958.3	6122.7	6537.0	6447.0	5798.4	5306.8	4298.0	2908.2
70°	1469.5	1567.3	1775.8	2882.5	5227.1	5651.7	5595.1	5183.3	4568.2	3798.7	2362.6
72.5°	1037.2	1078.4	1212.2	1901.9	3971.1	4434.4	4367.5	4264.5	3670.0	3157.9	1837.6
75°	777.2	803.0	875.0	1230.2	2679.2	3072.9	3011.2	3070.3	2740.9	2390.9	1338.3
77.5°	293.4	319.1	496.7	785.0	1585.4	1886.5	1824.7	1860.7	1523.6	1207.0	666.6
80°	79.8	84.9	164.7	373.2	720.6	939.4	854.4	733.5	566.2	555.9	352.6
82.5°	33.5	38.6	74.6	200.7	257.4	257.4	216.2	267.7	216.2	259.9	169.9
85°	12.9	15.4	18.0	51.5	33.5	36.0	38.6	51.5	43.8	54.0	38.6
87.5°	0.0	0.0	0.0	2.6	2.6	5.1	2.6	5.1	7.7	7.7	7.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P836096

CATALOG NUMBER: ARCH3-140-722-U-T4W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2079.5	2079.5	2079.5	2079.5	2079.5	2079.5	2079.5	2079.5	2079.5	2079.5	2079.5
2.5°	2066.6	2038.3	1997.1	1930.2	1860.7	1822.1	1773.2	1765.5	1714.0	1708.9	1688.3
5°	2079.5	2020.3	1914.8	1786.1	1660.0	1562.2	1490.1	1451.5	1376.9	1376.9	1356.3
7.5°	2089.8	1997.1	1827.3	1636.8	1464.4	1333.1	1235.3	1194.2	1127.3	1122.1	1106.7
10°	2092.4	1968.8	1732.1	1485.0	1273.9	1140.1	1044.9	998.6	939.4	934.2	923.9
12.5°	2113.0	1953.4	1647.1	1353.7	1137.5	993.4	900.8	862.2	815.8	810.7	800.4
15°	2146.4	1953.4	1575.1	1243.1	1016.6	882.8	803.0	766.9	733.5	728.3	723.2
17.5°	2179.9	1948.2	1503.0	1140.1	916.2	795.3	725.8	697.5	671.7	669.1	664.0
20°	2210.8	1945.7	1430.9	1052.6	839.0	723.2	669.1	643.4	622.8	622.8	620.2
22.5°	2241.6	1940.5	1361.5	970.3	772.1	669.1	622.8	594.5	579.1	579.1	576.5
25°	2288.0	1940.5	1297.1	900.8	718.0	628.0	581.6	561.1	548.2	545.6	545.6
27.5°	2342.0	1956.0	1240.5	839.0	671.7	586.8	550.8	530.2	514.7	509.6	512.2
30°	2401.2	1968.8	1189.0	785.0	628.0	555.9	517.3	496.7	481.3	476.1	478.7
32.5°	2460.4	1984.3	1142.7	736.1	584.2	527.6	489.0	465.8	450.4	447.8	447.8
35°	2524.7	1999.7	1096.4	694.9	548.2	499.3	463.3	437.5	427.2	422.1	424.6
37.5°	2589.1	2025.5	1052.6	656.3	522.4	473.5	440.1	414.4	406.6	404.1	404.1
40°	2666.3	2064.1	1034.6	630.5	499.3	450.4	422.1	396.3	388.6	388.6	388.6
42.5°	2730.6	2094.9	1019.2	602.2	481.3	429.8	404.1	383.5	378.3	375.8	378.3
45°	2795.0	2123.2	998.6	576.5	458.1	409.2	388.6	368.0	362.9	362.9	362.9
47.5°	2859.3	2138.7	970.3	550.8	437.5	391.2	373.2	355.2	350.0	350.0	350.0
50°	2910.8	2151.6	929.1	522.4	414.4	375.8	357.7	339.7	334.6	334.6	334.6
52.5°	2962.3	2154.1	885.3	489.0	391.2	357.7	342.3	324.3	319.1	316.6	316.6
55°	3008.6	2151.6	833.9	450.4	365.5	337.1	324.3	308.8	298.5	288.2	293.4
57.5°	3042.0	2149.0	774.7	411.8	339.7	316.6	311.4	290.8	270.2	244.5	249.6
60°	3029.2	2120.7	710.3	362.9	311.4	296.0	296.0	267.7	231.6	218.8	221.3
62.5°	2946.8	2040.9	643.4	311.4	283.1	275.4	272.8	241.9	213.6	200.7	203.3
65°	2699.7	1840.1	545.6	265.1	254.8	252.2	252.2	223.9	198.2	182.7	185.3
67.5°	2324.0	1544.2	445.2	223.9	226.5	231.6	231.6	205.9	180.2	164.7	167.3
70°	1863.3	1207.0	355.2	193.0	195.6	203.3	208.5	185.3	162.1	146.7	146.7
72.5°	1402.6	916.2	285.7	162.1	175.0	175.0	182.7	164.7	141.5	126.1	128.7
75°	1016.6	656.3	226.5	136.4	151.8	149.3	149.3	139.0	121.0	110.7	110.7
77.5°	481.3	344.9	180.2	97.8	118.4	115.8	118.4	110.7	102.9	92.7	95.2
80°	236.8	169.9	115.8	69.5	82.4	84.9	92.7	87.5	84.9	77.2	77.2
82.5°	113.2	66.9	54.0	48.9	56.6	59.2	64.3	64.3	66.9	61.8	61.8
85°	30.9	18.0	23.2	30.9	36.0	38.6	43.8	46.3	46.3	43.8	46.3
87.5°	7.7	7.7	10.3	15.4	18.0	20.6	23.2	23.2	10.3	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)