

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: P799416

Luminaire Tested: **ARCH2-110-740-U-T4W-HSS**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P799416
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-27)
Test Lab: INNOVATION CENTER
Issue Date: 4/4/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH2-110-740-U-T4W-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9517 lumens
Efficiency: N/A
Efficacy: 86.9 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 109.5
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

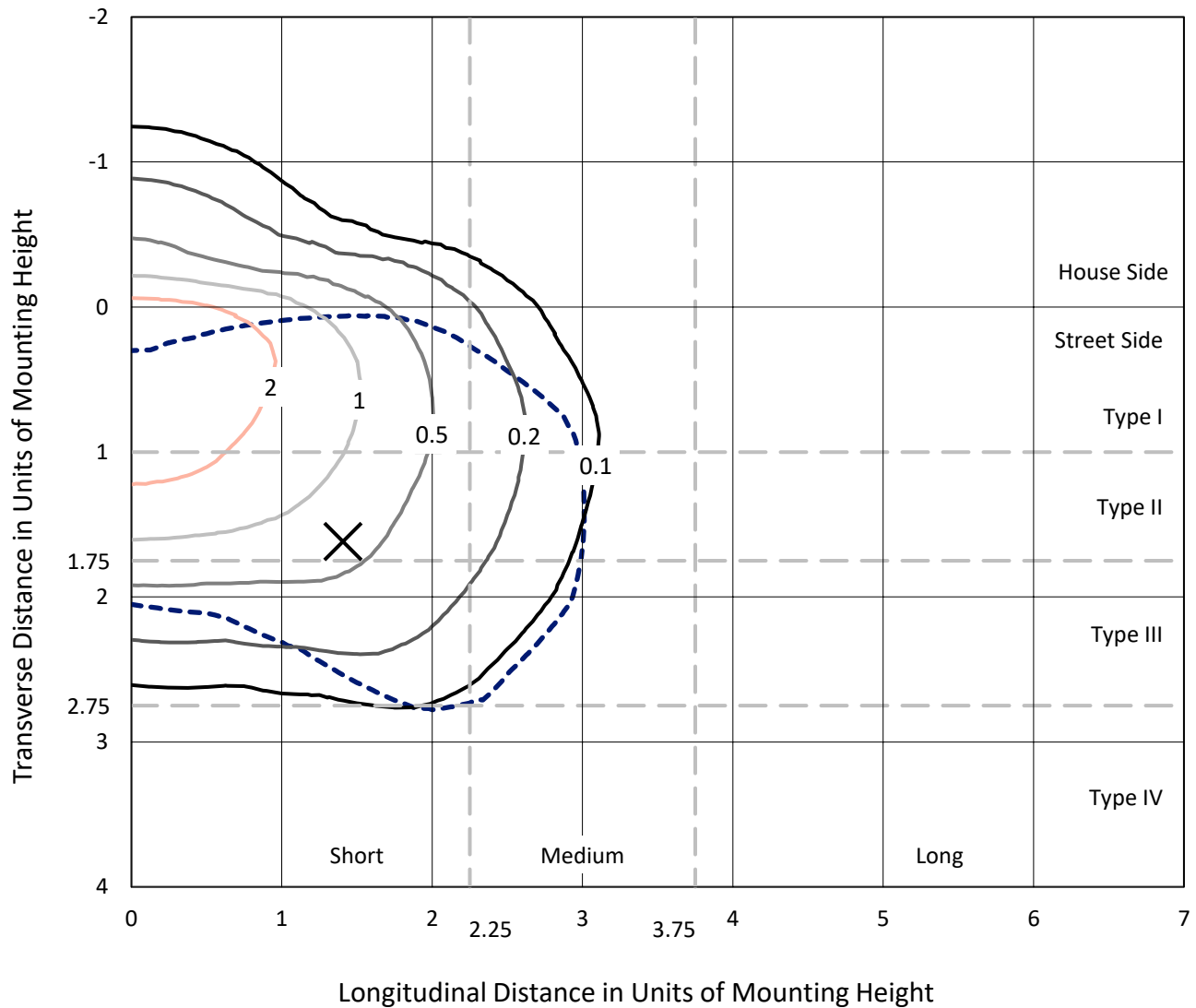


REPORT NUMBER: P799416

CATALOG NUMBER: ARCH2-110-740-U-T4W-HSS

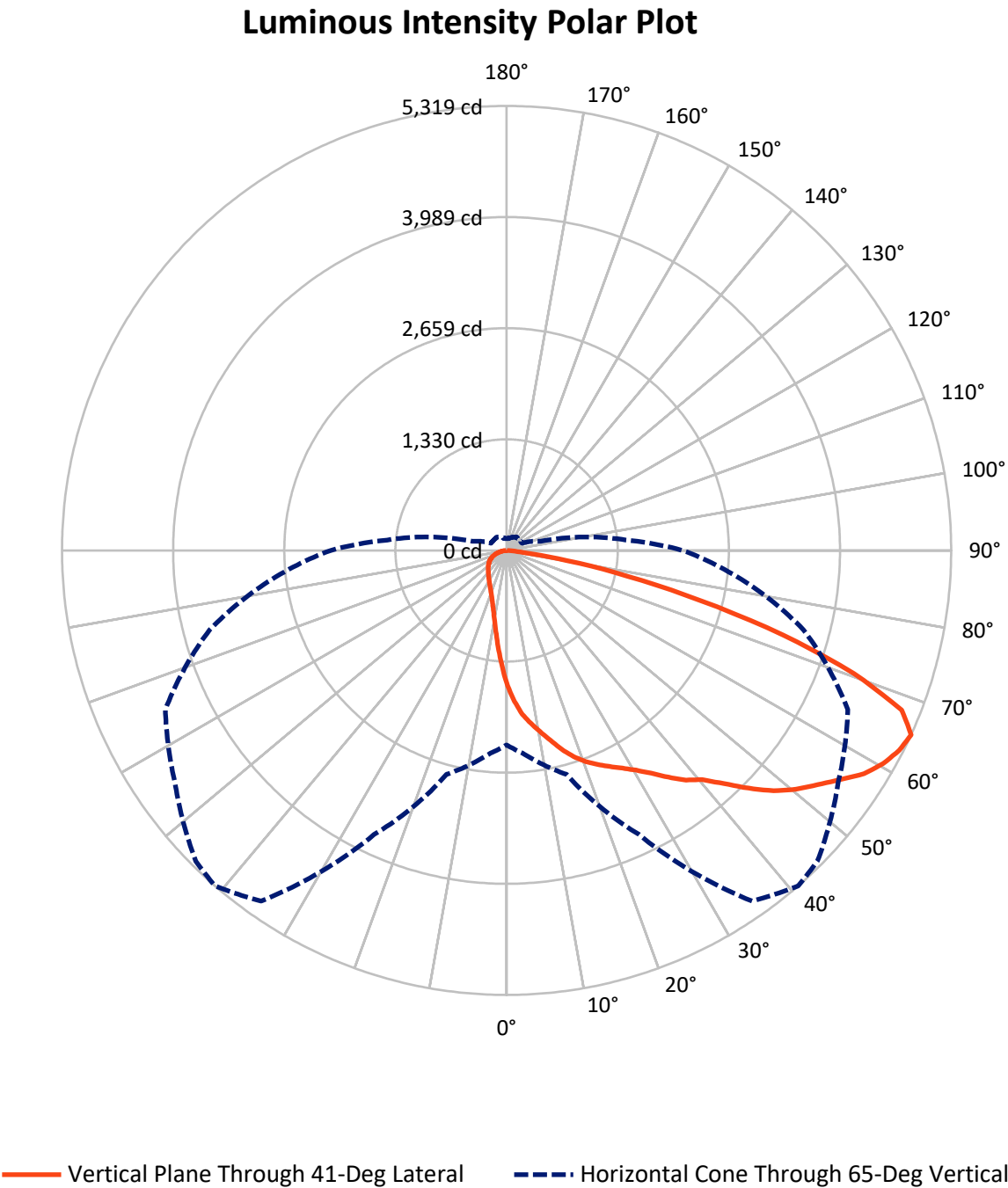
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 fc
Type III - Short - N/A

REPORT NUMBER: P799416
CATALOG NUMBER: ARCH2-110-740-U-T4W-HSS



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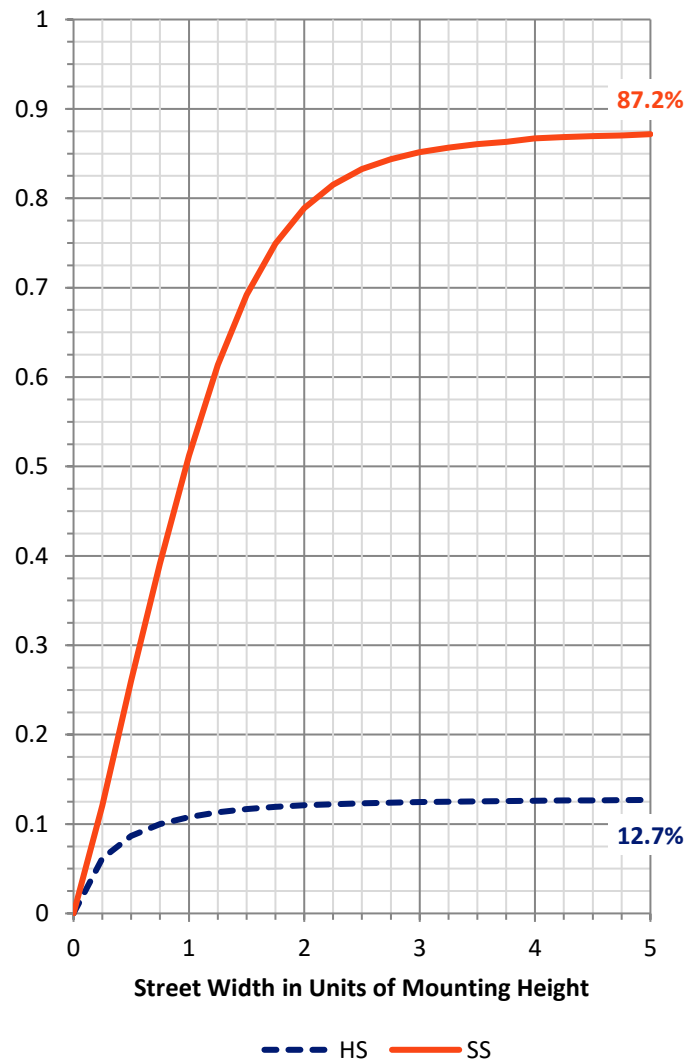
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1221.8	0.0	1221.8
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	8295.2	0.0	8295.2
	% Fixture	87.2	0.0	87.2
Total	Lumens	9517.0	0.0	9517.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.1	1.6
10°-20°	453.1	4.8
20°-30°	779.4	8.2
30°-40°	1182.1	12.4
40°-50°	1731.9	18.2
50°-60°	2187.0	23.0
60°-70°	2050.7	21.5
70°-80°	914.0	9.6
80°-90°	67.7	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°	9517.0	100.0
0°-180°	9517.0	100.0

Coefficient of Utilization



REPORT NUMBER: P799416

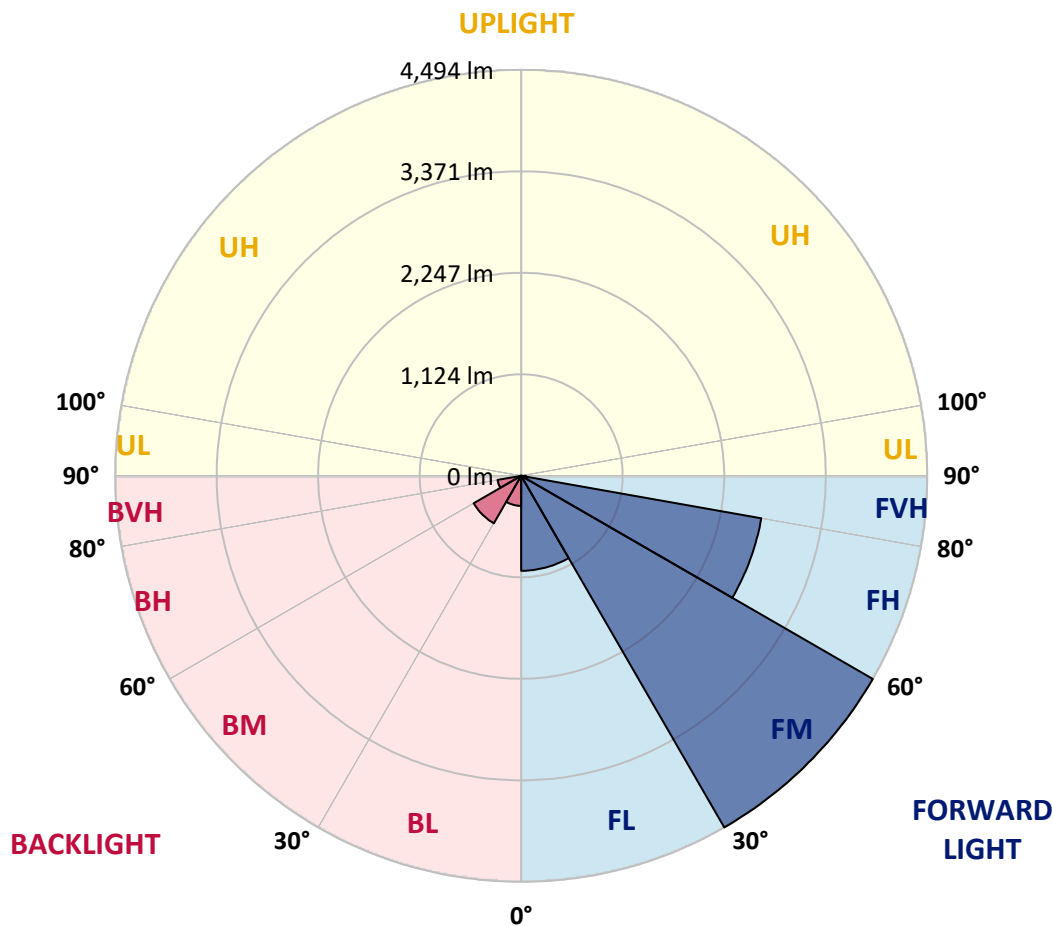
CATALOG NUMBER: ARCH2-110-740-U-T4W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1051.0	11.0			
FM	(30°-60°)	4494.3	47.2			
FH	(60°-80°)	2699.3	28.4			G2/5000
FVH	(80°-90°)	50.6	0.5			G1/100
BL	(0°-30°)	332.6	3.5	B1/500		
BM	(30°-60°)	606.7	6.4	B1/1000		
BH	(60°-80°)	265.4	2.8	B1/500		G1/500
BVH	(80°-90°)	17.1	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



REPORT NUMBER: P799416

CATALOG NUMBER: ARCH2-110-740-U-T4W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	41°	45°	55°	65°	75°	85°
0°	1621.6	1621.6	1621.6	1621.6	1621.6	1621.6	1621.6	1621.6	1621.6	1621.6	1621.6
2.5°	1870.5	1864.5	1860.5	1838.4	1838.4	1808.3	1810.3	1782.2	1748.1	1693.9	1635.7
5°	2047.1	2039.1	2029.1	2007.0	1999.0	1968.9	1964.8	1924.7	1866.5	1772.2	1667.8
7.5°	2201.7	2193.6	2179.6	2147.5	2125.4	2089.3	2079.2	2027.1	1962.8	1846.4	1699.9
10°	2342.2	2336.1	2318.1	2277.9	2247.8	2203.7	2185.6	2115.4	2035.1	1906.6	1726.0
12.5°	2484.7	2476.6	2452.5	2418.4	2382.3	2330.1	2308.0	2217.7	2115.4	1972.9	1764.1
15°	2617.1	2605.1	2587.0	2550.9	2518.8	2468.6	2444.5	2338.1	2213.7	2047.1	1814.3
17.5°	2703.4	2693.4	2677.3	2657.3	2631.2	2593.0	2568.9	2464.6	2312.1	2119.4	1866.5
20°	2755.6	2751.6	2745.6	2733.5	2721.5	2695.4	2677.3	2579.0	2418.4	2189.6	1916.7
22.5°	2795.7	2791.7	2789.7	2789.7	2791.7	2781.7	2769.6	2685.4	2520.8	2263.9	1962.8
25°	2858.0	2855.9	2851.9	2847.9	2862.0	2864.0	2860.0	2801.8	2649.2	2362.2	2021.0
27.5°	2944.3	2938.2	2930.2	2926.2	2940.2	2950.3	2958.3	2918.2	2785.7	2462.6	2087.3
30°	3076.7	3058.7	3038.6	3024.5	3034.6	3050.6	3068.7	3044.6	2926.2	2587.0	2155.5
32.5°	3233.3	3211.2	3165.0	3138.9	3165.0	3177.1	3191.1	3179.1	3072.7	2721.5	2223.7
35°	3423.9	3397.8	3349.7	3311.5	3357.7	3331.6	3325.6	3313.5	3211.2	2853.9	2300.0
37.5°	3741.0	3702.9	3626.6	3542.3	3542.3	3486.1	3464.1	3427.9	3335.6	2972.4	2374.3
40°	4108.3	4058.1	3959.8	3835.4	3721.0	3604.6	3590.5	3564.4	3482.1	3108.8	2458.6
42.5°	4511.7	4415.4	4278.9	4128.4	3943.7	3811.3	3779.2	3704.9	3624.6	3247.3	2542.9
45°	4959.3	4758.6	4559.9	4483.6	4178.6	4058.1	3997.9	3863.5	3773.1	3391.8	2631.2
47.5°	5031.5	4875.0	4742.5	4730.5	4397.3	4297.0	4228.7	4036.1	3933.7	3546.3	2723.5
50°	4991.4	4897.1	4911.1	4862.9	4557.9	4491.6	4439.5	4220.7	4092.3	3694.9	2807.8
52.5°	4822.8	4875.0	4955.3	4866.9	4710.4	4656.2	4630.1	4419.4	4240.8	3831.3	2884.0
55°	4622.1	4658.2	4830.8	4939.2	4887.0	4838.9	4814.8	4650.2	4387.3	3945.7	2954.3
57.5°	4329.1	4313.0	4503.7	4927.2	5071.7	5043.6	5017.5	4877.0	4523.8	4028.0	2998.4
60°	3889.5	3855.4	4096.3	4686.3	5131.9	5176.0	5164.0	5027.5	4628.1	4026.0	2980.4
62.5°	3128.9	3213.2	3546.3	4292.9	5158.0	5270.4	5248.3	5039.5	4662.2	3909.6	2866.0
65°	2326.1	2446.5	2773.7	3751.1	5121.8	5318.5	5258.3	4842.9	4503.7	3678.8	2615.1
67.5°	1675.8	1782.2	2021.0	3086.7	4774.6	5097.8	5027.5	4521.7	4138.4	3351.7	2267.9
70°	1146.0	1222.3	1384.8	2247.8	4076.2	4407.3	4363.2	4042.1	3562.4	2962.3	1842.4
72.5°	808.8	840.9	945.3	1483.2	3096.8	3458.0	3405.9	3325.6	2862.0	2462.6	1433.0
75°	606.1	626.2	682.4	959.3	2089.3	2396.3	2348.2	2394.3	2137.4	1864.5	1043.6
77.5°	228.8	248.9	387.3	612.1	1236.3	1471.1	1423.0	1451.1	1188.1	941.3	519.8
80°	62.2	66.2	128.4	291.0	562.0	732.6	666.3	572.0	441.5	433.5	275.0
82.5°	26.1	30.1	58.2	156.5	200.7	200.7	168.6	208.7	168.6	202.7	132.5
85°	10.0	12.0	14.0	40.1	26.1	28.1	30.1	40.1	34.1	42.1	30.1
87.5°	0.0	0.0	0.0	2.0	2.0	4.0	2.0	4.0	6.0	6.0	6.0
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: P799416

CATALOG NUMBER: ARCH2-110-740-U-T4W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1621.6	1621.6	1621.6	1621.6	1621.6	1621.6	1621.6	1621.6	1621.6	1621.6	1621.6
2.5°	1611.6	1589.5	1557.4	1505.2	1451.1	1420.9	1382.8	1376.8	1336.7	1332.6	1316.6
5°	1621.6	1575.5	1493.2	1392.9	1294.5	1218.2	1162.0	1131.9	1073.7	1073.7	1057.7
7.5°	1629.7	1557.4	1425.0	1276.4	1142.0	1039.6	963.4	931.2	879.1	875.0	863.0
10°	1631.7	1535.3	1350.7	1158.0	993.5	889.1	814.8	778.7	732.6	728.5	720.5
12.5°	1647.7	1523.3	1284.5	1055.7	887.1	774.7	702.4	672.3	636.2	632.2	624.2
15°	1673.8	1523.3	1228.3	969.4	792.8	688.4	626.2	598.1	572.0	568.0	564.0
17.5°	1699.9	1519.3	1172.1	889.1	714.5	620.2	566.0	543.9	523.8	521.8	517.8
20°	1724.0	1517.3	1115.9	820.9	654.3	564.0	521.8	501.7	485.7	485.7	483.7
22.5°	1748.1	1513.3	1061.7	756.6	602.1	521.8	485.7	463.6	451.6	451.6	449.6
25°	1784.2	1513.3	1011.5	702.4	559.9	489.7	453.6	437.5	427.5	425.5	425.5
27.5°	1826.4	1525.3	967.4	654.3	523.8	457.6	429.5	413.4	401.4	397.4	399.4
30°	1872.5	1535.3	927.2	612.1	489.7	433.5	403.4	387.3	375.3	371.3	373.3
32.5°	1918.7	1547.4	891.1	574.0	455.6	411.4	381.3	363.3	351.2	349.2	349.2
35°	1968.9	1559.4	855.0	541.9	427.5	389.4	361.3	341.2	333.2	329.1	331.2
37.5°	2019.0	1579.5	820.9	511.8	407.4	369.3	343.2	323.1	317.1	315.1	315.1
40°	2079.2	1609.6	806.8	491.7	389.4	351.2	329.1	309.1	303.1	303.1	303.1
42.5°	2129.4	1633.7	794.8	469.6	375.3	335.2	315.1	299.0	295.0	293.0	295.0
45°	2179.6	1655.8	778.7	449.6	357.2	319.1	303.1	287.0	283.0	283.0	283.0
47.5°	2229.8	1667.8	756.6	429.5	341.2	305.1	291.0	277.0	273.0	273.0	273.0
50°	2269.9	1677.8	724.5	407.4	323.1	293.0	279.0	264.9	260.9	260.9	260.9
52.5°	2310.0	1679.8	690.4	381.3	305.1	279.0	266.9	252.9	248.9	246.9	246.9
55°	2346.2	1677.8	650.3	351.2	285.0	262.9	252.9	240.8	232.8	224.8	228.8
57.5°	2372.3	1675.8	604.1	321.1	264.9	246.9	242.8	226.8	210.7	190.7	194.7
60°	2362.2	1653.8	553.9	283.0	242.8	230.8	230.8	208.7	180.6	170.6	172.6
62.5°	2298.0	1591.5	501.7	242.8	220.8	214.7	212.7	188.7	166.6	156.5	158.6
65°	2105.3	1435.0	425.5	206.7	198.7	196.7	196.7	174.6	154.5	142.5	144.5
67.5°	1812.3	1204.2	347.2	174.6	176.6	180.6	180.6	160.6	140.5	128.4	130.5
70°	1453.1	941.3	277.0	150.5	152.5	158.6	162.6	144.5	126.4	114.4	114.4
72.5°	1093.8	714.5	222.8	126.4	136.5	136.5	142.5	128.4	110.4	98.3	100.3
75°	792.8	511.8	176.6	106.4	118.4	116.4	116.4	108.4	94.3	86.3	86.3
77.5°	375.3	268.9	140.5	76.3	92.3	90.3	92.3	86.3	80.3	72.3	74.3
80°	184.6	132.5	90.3	54.2	64.2	66.2	72.3	68.2	66.2	60.2	60.2
82.5°	88.3	52.2	42.1	38.1	44.2	46.2	50.2	50.2	52.2	48.2	48.2
85°	24.1	14.0	18.1	24.1	28.1	30.1	34.1	36.1	36.1	34.1	36.1
87.5°	6.0	6.0	8.0	12.0	14.0	16.1	18.1	18.1	8.0	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)