

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: P799414

Luminaire Tested: **ARCH2-110-740-U-T3-HSS**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P799414
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-26)
Test Lab: INNOVATION CENTER
Issue Date: 4/4/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH2-110-740-U-T3-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9570 lumens
Efficiency: N/A
Efficacy: 87.4 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

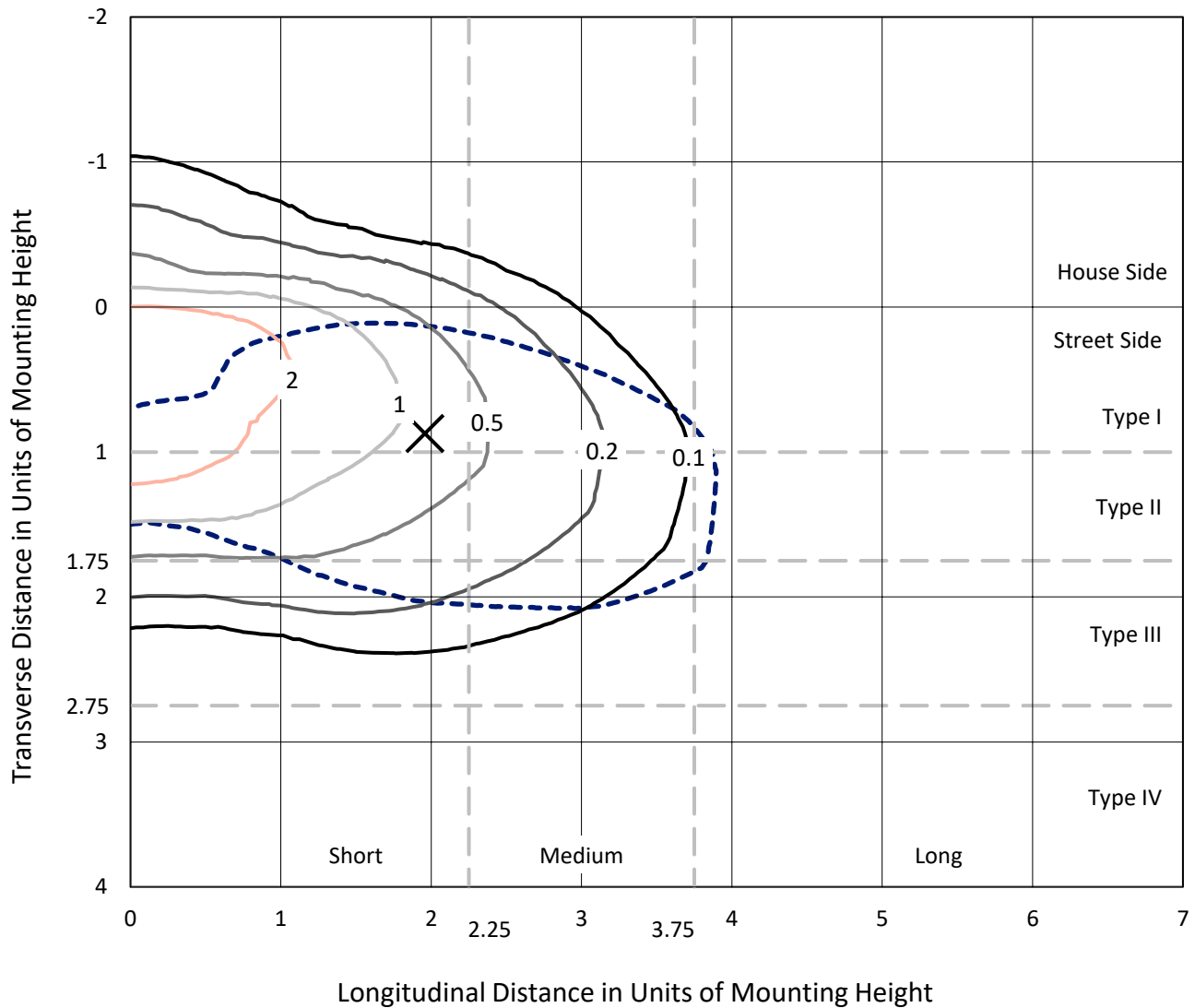


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

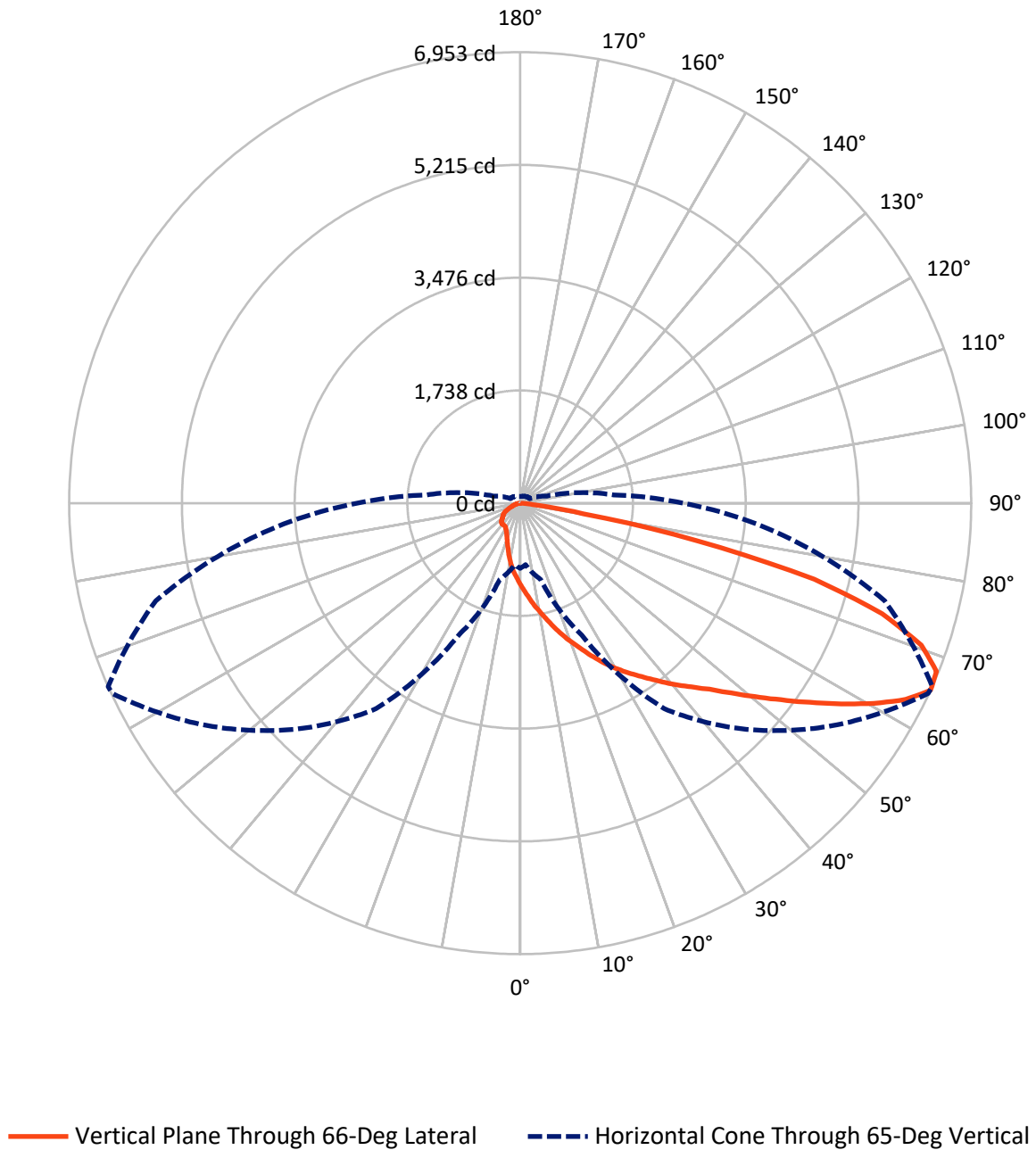


Based on 25 foot mounting height. Maximum calculated value = 3.7 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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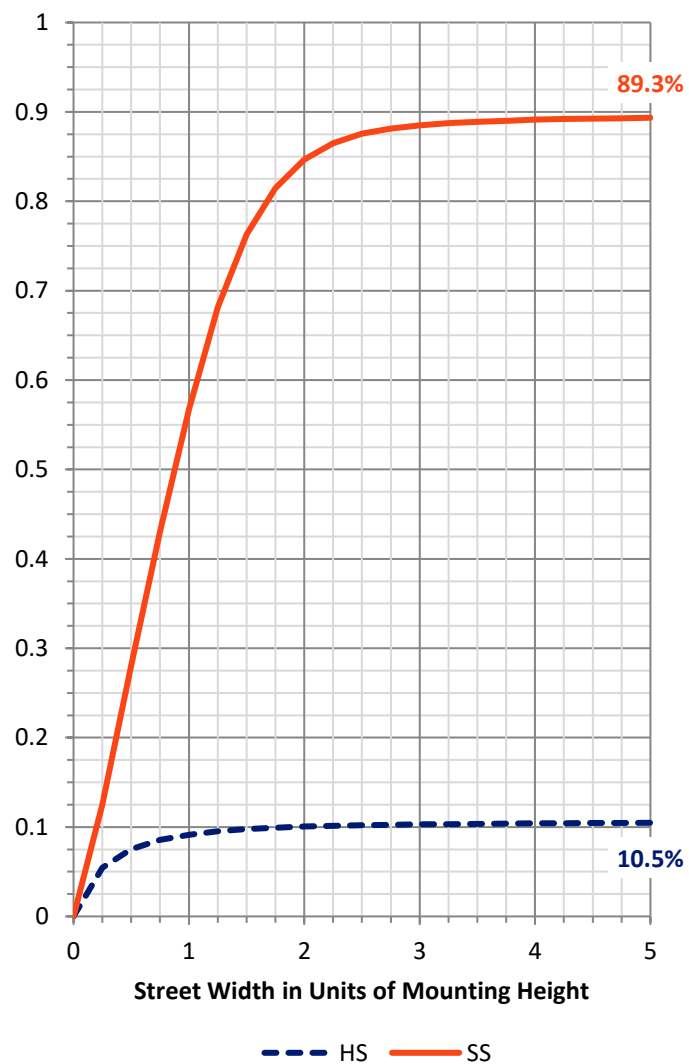
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1012.3	0.0	1012.3
	% Fixture	10.6	0.0	10.6
Street Side	Lumens	8557.7	0.0	8557.7
	% Fixture	89.4	0.0	89.4
Total	Lumens	9570.0	0.0	9570.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.0	1.3
10°-20°	407.4	4.3
20°-30°	737.2	7.7
30°-40°	1152.7	12.0
40°-50°	1748.7	18.3
50°-60°	2221.8	23.2
60°-70°	2076.0	21.7
70°-80°	1031.8	10.8
80°-90°	69.3	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°	9570.0	100.0
0°-180°	9570.0	100.0

Coefficient of Utilization



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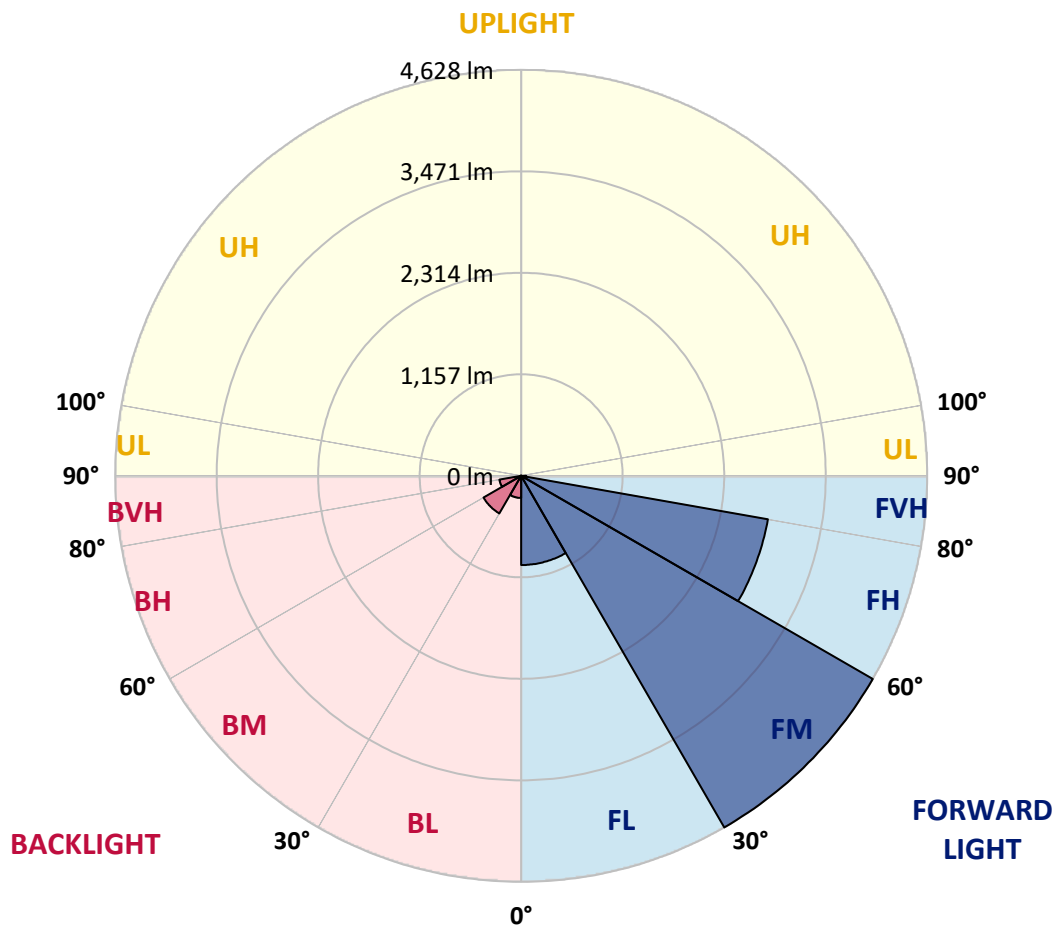
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1016.8	10.6			
FM	(30°-60°)	4628.2	48.4			
FH	(60°-80°)	2855.7	29.8			G2/5000
FVH	(80°-90°)	57.0	0.6			G1/100
BL	(0°-30°)	252.8	2.6	B1/500		
BM	(30°-60°)	495.1	5.2	B1/1000		
BH	(60°-80°)	252.1	2.6	B1/500		G1/500
BVH	(80°-90°)	12.3	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°	1266.5	1266.5	1266.5	1266.5	1266.5	1266.5	1266.5	1266.5	1266.5	1266.5	1266.5
2.5°	1479.3	1491.3	1497.4	1499.4	1453.2	1433.1	1413.1	1366.9	1356.9	1330.8	1296.6
5°	1740.2	1756.3	1752.3	1744.2	1688.0	1623.8	1571.6	1485.3	1471.3	1409.0	1332.8
7.5°	1997.2	2011.2	2007.2	1977.1	1914.9	1824.5	1738.2	1611.8	1591.7	1491.3	1368.9
10°	2211.9	2224.0	2222.0	2191.9	2117.6	2007.2	1902.8	1734.2	1710.1	1567.6	1399.0
12.5°	2388.6	2404.6	2402.6	2382.5	2316.3	2195.9	2077.4	1874.7	1844.6	1659.9	1441.2
15°	2527.1	2547.1	2547.1	2539.1	2492.9	2392.6	2258.1	2029.3	1993.1	1766.3	1493.3
17.5°	2611.4	2627.4	2641.5	2655.5	2623.4	2547.1	2424.7	2183.8	2145.7	1870.7	1547.5
20°	2655.5	2671.6	2681.6	2711.7	2717.7	2679.6	2583.3	2336.4	2296.2	1989.1	1609.8
22.5°	2727.8	2741.8	2743.8	2769.9	2782.0	2792.0	2731.8	2486.9	2454.8	2119.6	1680.0
25°	2848.2	2864.3	2858.2	2870.3	2872.3	2884.3	2878.3	2659.5	2627.4	2268.1	1764.3
27.5°	3002.8	3022.8	3018.8	3006.8	2988.7	2978.7	3004.8	2834.2	2804.0	2416.7	1850.6
30°	3169.4	3193.4	3187.4	3163.3	3115.2	3073.0	3109.1	2998.7	2970.6	2569.2	1947.0
32.5°	3338.0	3366.1	3364.1	3323.9	3241.6	3169.4	3223.5	3153.3	3133.2	2733.8	2051.3
35°	3448.4	3484.5	3480.5	3456.4	3350.0	3287.8	3354.0	3311.9	3297.8	2934.5	2201.9
37.5°	3627.0	3665.1	3631.0	3570.8	3448.4	3416.2	3496.5	3490.5	3480.5	3147.3	2360.5
40°	4060.5	4116.7	4026.4	3779.5	3578.8	3550.7	3665.1	3689.2	3679.2	3358.0	2503.0
42.5°	4514.2	4598.5	4458.0	4116.7	3815.7	3713.3	3849.8	3883.9	3871.9	3538.7	2631.4
45°	4789.2	4825.3	4684.8	4419.8	4235.2	3910.0	4046.5	4102.7	4092.7	3755.5	2796.0
47.5°	5014.0	4999.9	4839.3	4660.7	4694.8	4187.0	4269.3	4379.7	4371.7	3994.3	2976.7
50°	5062.1	5030.0	4965.8	4853.4	4943.7	4468.0	4504.1	4694.8	4686.8	4259.3	3159.3
52.5°	4722.9	4680.8	4855.4	4949.7	4919.6	4672.7	4763.1	5040.1	5036.0	4546.3	3333.9
55°	3875.9	3841.8	4311.4	4799.2	4893.5	4817.3	5050.1	5399.3	5421.4	4851.4	3492.5
57.5°	3048.9	3012.8	3474.4	4421.8	4797.2	4949.7	5385.3	5810.8	5838.9	5182.6	3643.1
60°	2430.7	2376.5	2729.8	3827.7	4616.5	5052.1	5708.4	6262.4	6266.4	5485.7	3735.4
62.5°	1651.9	1591.7	1983.1	3075.0	4313.5	5068.2	5957.3	6651.8	6667.9	5712.5	3751.4
65°	1003.6	953.4	1218.4	2246.0	3865.8	4931.7	5961.4	6938.9	6952.9	5816.8	3655.1
67.5°	582.1	562.0	696.5	1399.0	3123.2	4564.4	5710.5	6894.7	6920.8	5772.7	3436.3
70°	339.2	337.2	387.4	692.5	2203.9	3835.7	5150.4	6523.4	6561.5	5541.9	3101.1
72.5°	248.9	252.9	273.0	371.3	1276.6	2761.9	4361.6	5776.7	5834.9	5090.2	2623.4
75°	196.7	198.7	216.8	252.9	670.4	1561.6	3267.7	4636.6	4682.8	4285.4	2049.3
77.5°	146.5	150.5	164.6	178.6	311.1	716.6	1838.6	2856.2	2780.0	2352.4	989.5
80°	106.4	116.4	122.4	128.5	164.6	277.0	552.0	995.6	987.5	1027.7	467.7
82.5°	68.2	76.3	82.3	86.3	98.4	132.5	164.6	222.8	240.9	399.4	186.7
85°	30.1	34.1	38.1	46.2	42.2	46.2	68.2	44.2	38.1	60.2	34.1
87.5°	0.0	0.0	6.0	10.0	8.0	4.0	12.0	8.0	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

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1266.5	1266.5	1266.5	1266.5	1266.5	1266.5	1266.5	1266.5	1266.5	1266.5	1266.5
2.5°	1278.6	1256.5	1210.3	1166.2	1140.1	1106.0	1075.9	1047.8	1045.7	1037.7	1023.7
5°	1294.6	1252.5	1166.2	1083.9	1021.7	955.4	899.2	855.1	839.0	827.0	810.9
7.5°	1310.7	1244.5	1116.0	995.6	897.2	804.9	738.6	678.4	660.4	644.3	634.3
10°	1316.7	1230.4	1057.8	897.2	768.8	670.4	600.1	556.0	539.9	531.9	525.9
12.5°	1334.8	1222.4	1003.6	804.9	656.4	566.0	515.8	489.8	483.7	477.7	471.7
15°	1358.9	1222.4	949.4	714.6	568.0	495.8	465.7	447.6	443.6	441.6	437.6
17.5°	1385.0	1222.4	897.2	638.3	503.8	449.6	427.5	417.5	415.5	413.5	411.5
20°	1421.1	1224.4	841.0	572.0	457.6	415.5	397.4	385.4	383.4	381.4	381.4
22.5°	1457.2	1228.4	786.8	521.9	427.5	389.4	367.3	355.3	351.3	351.3	351.3
25°	1503.4	1240.4	736.6	479.7	401.4	365.3	337.2	327.2	325.2	325.2	323.2
27.5°	1557.6	1254.5	692.5	447.6	375.3	337.2	309.1	299.1	295.1	295.1	293.0
30°	1615.8	1268.5	656.4	423.5	349.3	309.1	283.0	271.0	267.0	269.0	267.0
32.5°	1680.0	1288.6	628.3	407.5	325.2	285.0	260.9	246.9	244.9	244.9	242.9
35°	1788.4	1344.8	624.2	399.4	305.1	267.0	242.9	228.8	226.8	226.8	224.8
37.5°	1904.8	1409.0	642.3	395.4	289.0	250.9	228.8	214.8	212.8	212.8	212.8
40°	2003.2	1457.2	662.4	395.4	279.0	236.8	216.8	204.7	204.7	204.7	204.7
42.5°	2069.4	1461.2	658.4	395.4	271.0	226.8	208.7	196.7	196.7	198.7	196.7
45°	2167.8	1481.3	642.3	389.4	264.9	218.8	200.7	190.7	188.7	190.7	190.7
47.5°	2284.2	1517.4	626.2	365.3	262.9	210.8	194.7	182.7	180.6	182.7	180.6
50°	2394.6	1549.6	618.2	333.2	258.9	202.7	186.7	174.6	172.6	174.6	172.6
52.5°	2486.9	1563.6	604.2	311.1	248.9	194.7	178.6	166.6	162.6	164.6	164.6
55°	2561.2	1559.6	584.1	293.0	230.8	186.7	168.6	158.6	152.5	152.5	150.5
57.5°	2629.4	1561.6	566.0	275.0	210.8	174.6	160.6	148.5	140.5	138.5	136.5
60°	2655.5	1551.6	533.9	250.9	190.7	164.6	150.5	136.5	128.5	126.5	124.4
62.5°	2619.4	1515.4	491.8	208.7	172.6	152.5	140.5	126.5	118.4	116.4	114.4
65°	2517.0	1447.2	427.5	164.6	156.6	138.5	128.5	118.4	108.4	104.4	102.4
67.5°	2342.4	1348.8	347.2	132.5	138.5	126.5	120.4	108.4	96.3	92.3	90.3
70°	2093.5	1218.4	260.9	112.4	122.4	112.4	108.4	96.3	86.3	82.3	80.3
72.5°	1744.2	1007.6	182.7	96.3	106.4	98.4	94.3	86.3	76.3	70.3	70.3
75°	1318.7	722.6	120.4	82.3	88.3	84.3	78.3	72.3	66.2	62.2	60.2
77.5°	568.0	281.0	74.3	62.2	72.3	70.3	62.2	58.2	56.2	52.2	52.2
80°	244.9	114.4	46.2	46.2	52.2	50.2	48.2	44.2	44.2	42.2	40.1
82.5°	90.3	46.2	28.1	34.1	38.1	34.1	34.1	34.1	34.1	32.1	32.1
85°	22.1	14.1	14.1	20.1	22.1	20.1	22.1	20.1	20.1	20.1	18.1
87.5°	6.0	6.0	8.0	8.0	8.0	8.0	8.0	6.0	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)