

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: P573324

Luminaire Tested: **ARCH-S-PA2-60-740-U-T3**

Issue Date: 10/13/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P573324  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2108-332-38)  
Test Lab: INNOVATION CENTER  
Issue Date: 10/13/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH-S-PA2-60-740-U-T3  
Description: ARCHEON ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 4000K, 625mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9461 lumens  
Efficiency: N/A  
Efficacy: 149.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G2

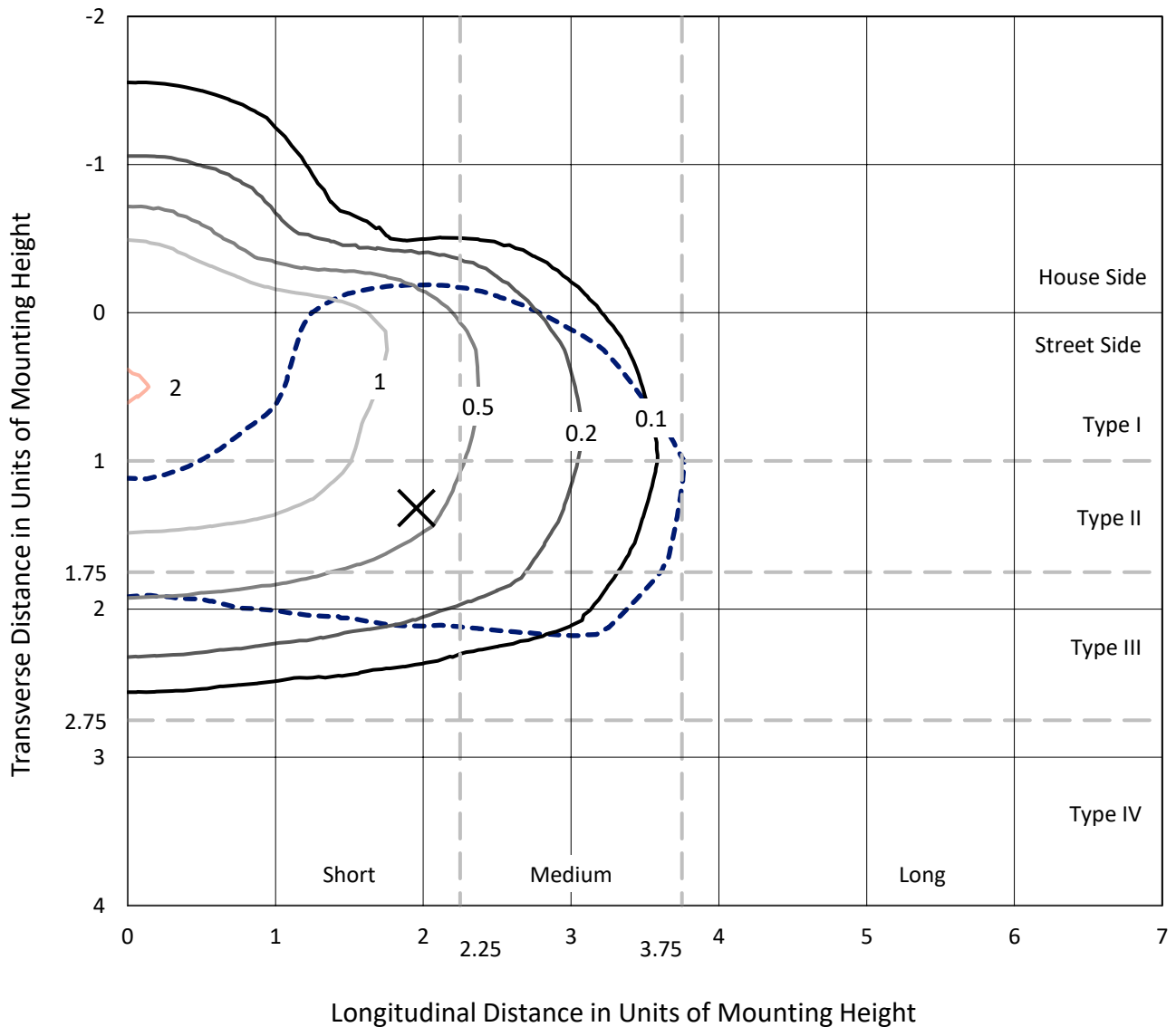
Input Watts (W): 63.1  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

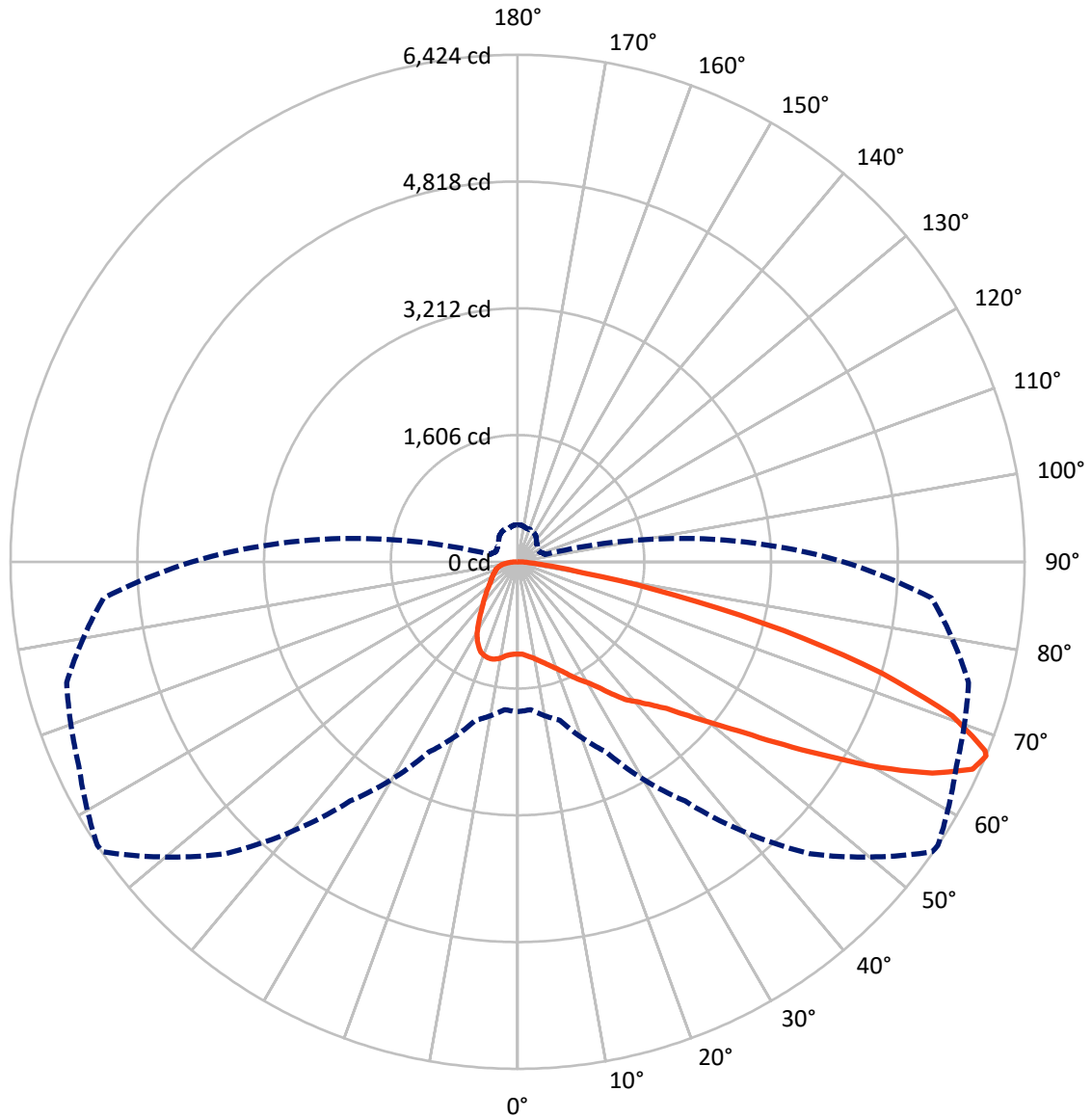
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral      - - - Horizontal Cone Through 67-Deg Vertical

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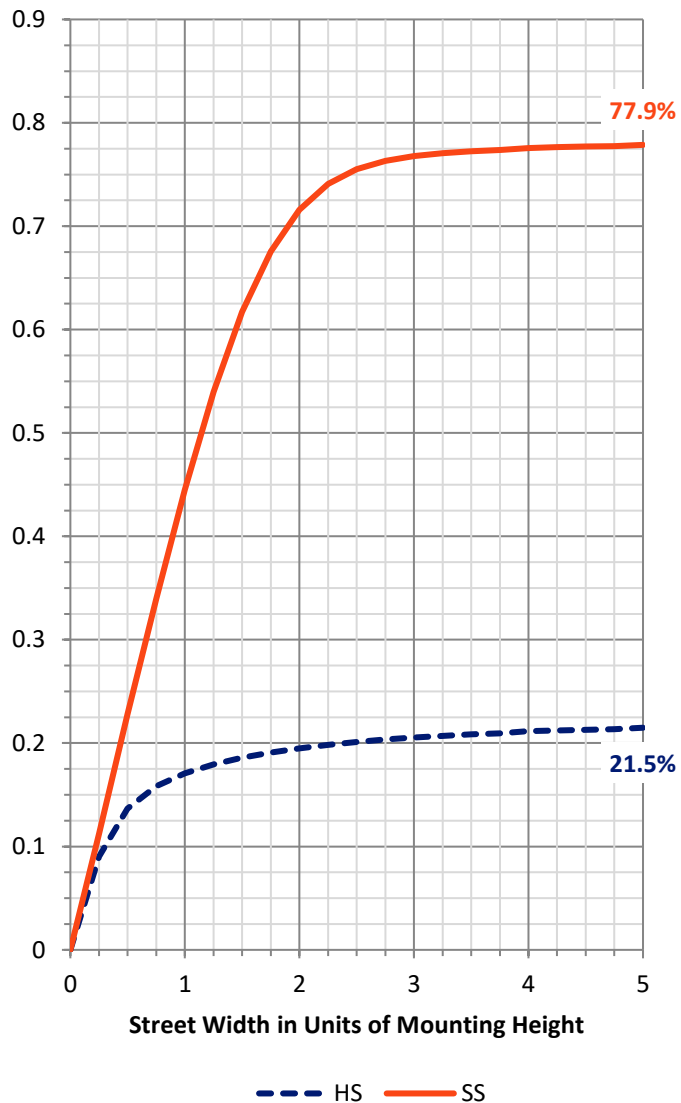
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2069.9	0.0	2069.9
	% Fixture	21.9	0.0	21.9
<b>Street Side</b>	Lumens	7391.1	0.0	7391.1
	% Fixture	78.1	0.0	78.1
<b>Total</b>	Lumens	9461.0	0.0	9461.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	114.9	1.2
10°-20°	368.5	3.9
20°-30°	641.4	6.8
30°-40°	940.4	9.9
40°-50°	1376.0	14.5
50°-60°	2150.5	22.7
60°-70°	2555.9	27.0
70°-80°	1164.1	12.3
80°-90°	149.3	1.6
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°	9461.0	100.0
0°-180°	9461.0	100.0

**Coefficient of Utilization**



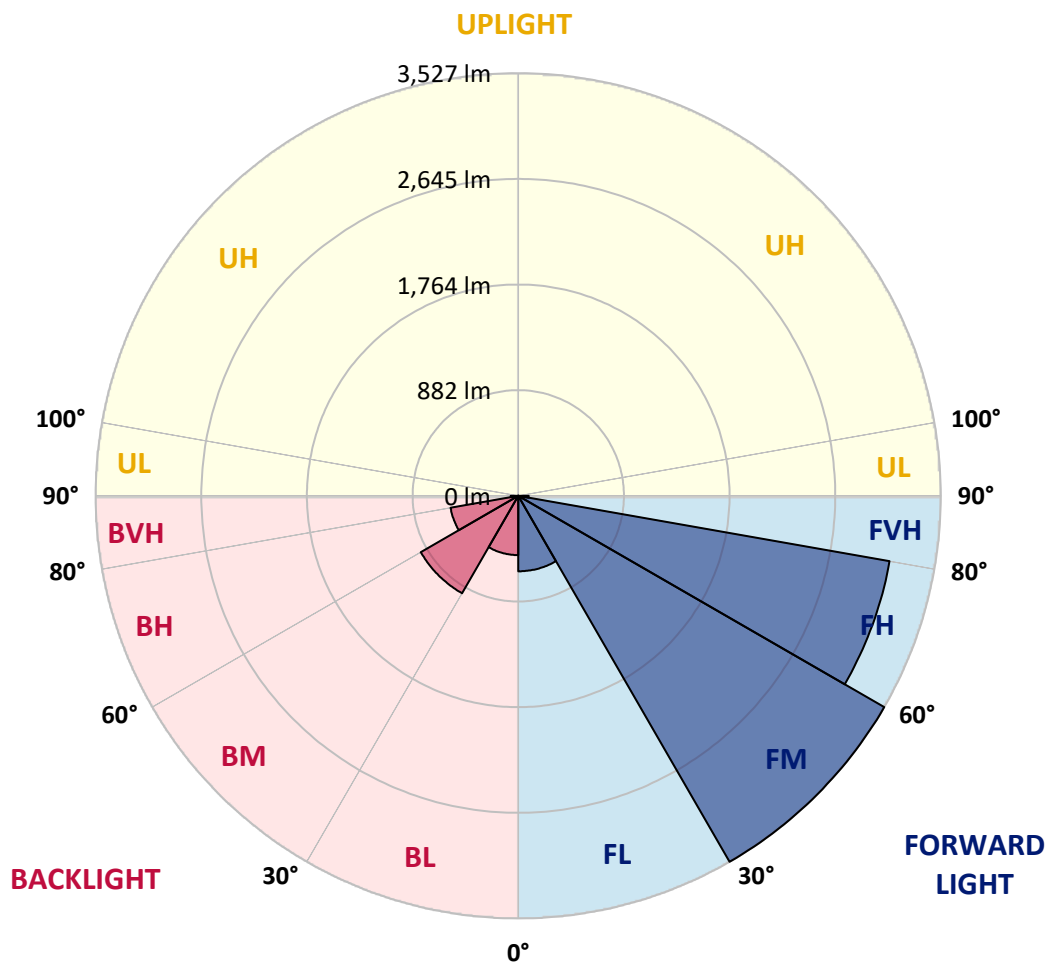
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	630.2	6.7			
FM (30°-60°)	3527.3	37.3			
FH (60°-80°)	3146.6	33.3			G2/5000
FVH (80°-90°)	87.0	0.9			G1/100
BL (0°-30°)	494.7	5.2	B1/500		
BM (30°-60°)	939.6	9.9	B1/1000		
BH (60°-80°)	573.4	6.1	B2/1000		G2/1000
BVH (80°-90°)	62.2	0.7			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	1168.1	1168.1	1168.1	1168.1	1168.1	1168.1	1168.1	1168.1	1168.1	1168.1	1168.1
2.5°	1186.0	1180.9	1178.3	1180.9	1178.3	1173.2	1175.7	1173.2	1170.6	1168.1	1168.1
5°	1201.4	1196.2	1193.7	1196.2	1198.8	1193.7	1193.7	1193.7	1186.0	1183.4	1178.3
7.5°	1211.6	1203.9	1203.9	1209.0	1214.2	1216.7	1221.9	1219.3	1211.6	1206.5	1196.2
10°	1244.9	1234.7	1234.7	1234.7	1239.8	1244.9	1250.0	1252.6	1250.0	1247.5	1239.8
12.5°	1296.1	1285.9	1285.9	1285.9	1285.9	1283.3	1291.0	1293.6	1298.7	1298.7	1285.9
15°	1365.3	1352.5	1347.4	1337.1	1334.6	1329.4	1339.7	1339.7	1347.4	1349.9	1337.1
17.5°	1431.9	1416.5	1411.4	1401.2	1390.9	1378.1	1388.4	1390.9	1406.3	1408.8	1388.4
20°	1501.1	1495.9	1488.3	1472.9	1455.0	1442.1	1452.4	1449.8	1462.6	1467.8	1442.1
22.5°	1590.7	1577.9	1572.8	1552.3	1531.8	1519.0	1519.0	1524.1	1536.9	1536.9	1498.5
25°	1698.3	1680.4	1667.6	1644.5	1618.9	1603.5	1606.1	1611.2	1629.1	1616.3	1557.4
27.5°	1831.5	1813.6	1795.6	1749.5	1723.9	1693.2	1690.6	1695.7	1723.9	1690.6	1613.8
30°	1957.0	1949.3	1934.0	1898.1	1857.1	1805.9	1782.8	1785.4	1805.9	1759.8	1662.4
32.5°	2064.6	2054.4	2046.7	2021.1	1992.9	1931.4	1900.7	1903.2	1900.7	1844.3	1721.4
35°	2192.7	2177.3	2172.2	2149.1	2113.3	2072.3	2059.5	2054.4	2039.0	1962.1	1798.2
37.5°	2315.6	2300.3	2292.6	2279.8	2251.6	2215.7	2215.7	2213.2	2182.4	2074.8	1875.0
40°	2461.6	2443.7	2420.7	2413.0	2389.9	2364.3	2343.8	2331.0	2277.2	2179.9	2023.6
42.5°	2638.4	2628.1	2615.3	2582.0	2546.2	2541.0	2482.1	2477.0	2438.6	2382.2	2233.7
45°	2892.0	2871.5	2853.6	2843.3	2799.8	2753.7	2671.7	2651.2	2651.2	2638.4	2479.6
47.5°	3148.1	3112.3	3137.9	3130.2	3120.0	3068.7	2909.9	2912.5	2907.3	2940.6	2840.7
50°	3319.8	3299.3	3371.0	3404.3	3476.0	3476.0	3248.0	3219.9	3240.3	3337.7	3209.6
52.5°	3453.0	3440.1	3522.1	3652.8	3865.4	3885.9	3650.2	3591.3	3619.5	3757.8	3706.6
55°	3560.5	3547.7	3642.5	3870.5	4211.2	4336.7	4113.8	4088.2	4031.9	4180.4	4195.8
57.5°	3624.6	3596.4	3739.9	4044.7	4492.9	4782.4	4656.9	4649.2	4518.6	4656.9	4726.0
60°	3527.2	3509.3	3706.6	4116.4	4720.9	5202.5	5294.7	5294.7	5061.6	5135.9	5220.4
62.5°	3212.2	3189.1	3396.6	3949.9	4749.1	5545.7	5927.4	5896.7	5584.2	5581.6	5507.3
65°	2612.8	2584.6	2817.7	3401.7	4393.0	5586.7	6355.2	6337.3	5976.1	5873.6	5525.2
67°	1898.1	1880.2	2080.0	2658.9	3701.4	5230.7	6409.0	6424.3	6132.3	5914.6	5266.5
67.5°	1703.4	1700.9	1867.4	2441.1	3499.1	5100.0	6373.1	6388.5	6129.8	5881.3	5164.1
70°	794.1	829.9	986.2	1398.6	2359.2	4016.5	5784.0	5842.9	5801.9	5497.1	4349.5
72.5°	368.9	384.2	453.4	676.2	1268.0	2589.7	4687.6	4828.5	5007.8	4715.8	3445.3
75°	228.0	233.1	271.5	350.9	596.8	1244.9	3337.7	3491.4	3762.9	3547.7	2202.9
77.5°	179.3	181.9	207.5	251.0	348.4	535.4	1831.5	2023.6	2377.1	2097.9	1109.1
80°	133.2	138.3	158.8	194.7	245.9	274.1	778.7	850.4	1147.6	878.6	461.1
82.5°	97.3	102.5	123.0	140.9	171.6	174.2	317.6	335.6	491.8	356.1	199.8
85°	82.0	82.0	94.8	105.0	115.3	97.3	156.3	153.7	189.6	161.4	79.4
87.5°	38.4	41.0	89.7	66.6	56.4	41.0	46.1	48.7	58.9	64.0	30.7
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°	1168.1	1168.1	1168.1	1168.1	1168.1	1168.1	1168.1	1168.1	1168.1	1168.1	1168.1
2.5°	1165.5	1165.5	1165.5	1168.1	1170.6	1170.6	1173.2	1173.2	1175.7	1178.3	1183.4
5°	1175.7	1175.7	1173.2	1175.7	1180.9	1183.4	1188.6	1193.7	1198.8	1203.9	1206.5
7.5°	1196.2	1193.7	1193.7	1193.7	1198.8	1203.9	1211.6	1216.7	1224.4	1227.0	1232.1
10°	1234.7	1229.5	1229.5	1232.1	1234.7	1227.0	1224.4	1221.9	1229.5	1234.7	1239.8
12.5°	1280.8	1275.6	1273.1	1265.4	1255.2	1239.8	1227.0	1216.7	1219.3	1224.4	1232.1
15°	1329.4	1319.2	1314.1	1296.1	1270.5	1237.2	1216.7	1203.9	1203.9	1203.9	1211.6
17.5°	1380.7	1370.4	1349.9	1316.6	1268.0	1221.9	1196.2	1173.2	1162.9	1160.4	1165.5
20°	1429.3	1414.0	1380.7	1329.4	1252.6	1191.1	1157.8	1119.4	1104.0	1093.8	1098.9
22.5°	1475.4	1455.0	1408.8	1329.4	1227.0	1145.0	1086.1	1034.9	1009.2	1004.1	1006.7
25°	1524.1	1498.5	1437.0	1314.1	1170.6	1075.8	993.9	940.1	906.8	901.7	909.3
27.5°	1572.8	1534.4	1460.1	1273.1	1106.6	981.1	894.0	842.7	824.8	814.6	817.1
30°	1613.8	1577.9	1483.1	1216.7	1019.5	870.9	791.5	768.5	755.7	750.5	750.5
32.5°	1667.6	1634.3	1498.5	1150.1	917.0	771.0	719.8	701.9	691.6	678.8	681.4
35°	1734.2	1703.4	1490.8	1065.6	819.7	704.4	663.4	637.8	614.8	596.8	594.3
37.5°	1823.8	1800.8	1452.4	963.1	730.0	655.8	614.8	581.5	548.2	520.0	514.9
40°	1972.4	1918.6	1396.0	850.4	668.6	617.3	568.7	527.7	486.7	456.0	448.3
42.5°	2161.9	2049.2	1319.2	735.2	617.3	576.3	527.7	473.9	435.5	407.3	407.3
45°	2382.2	2190.1	1227.0	648.1	563.5	535.4	476.4	430.3	407.3	389.4	386.8
47.5°	2643.5	2331.0	1109.1	578.9	520.0	499.5	440.6	412.4	397.0	381.7	379.1
50°	2994.4	2520.6	1022.1	520.0	476.4	458.5	430.3	407.3	391.9	381.7	379.1
52.5°	3396.6	2763.9	960.6	473.9	440.6	432.9	427.8	409.8	394.5	386.8	384.2
55°	3832.1	3063.6	901.7	435.5	412.4	422.7	432.9	415.0	404.7	394.5	389.4
57.5°	4241.9	3317.2	806.9	402.2	391.9	409.8	430.3	417.5	404.7	397.0	394.5
60°	4521.1	3445.3	676.2	371.4	371.4	391.9	422.7	404.7	391.9	394.5	394.5
62.5°	4610.8	3396.6	535.4	343.2	350.9	371.4	399.6	389.4	384.2	397.0	397.0
65°	4477.6	3199.4	427.8	320.2	330.4	345.8	386.8	397.0	412.4	440.6	443.1
67°	4129.2	2881.7	361.2	302.3	312.5	338.1	402.2	438.0	438.0	468.8	468.8
67.5°	4026.7	2774.1	350.9	297.1	309.9	338.1	409.8	448.3	438.0	473.9	473.9
70°	3273.6	2182.4	297.1	281.8	299.7	356.1	443.1	450.8	427.8	461.1	458.5
72.5°	2428.3	1577.9	271.5	266.4	279.2	335.6	440.6	432.9	399.6	409.8	402.2
75°	1501.1	914.5	251.0	245.9	253.6	297.1	407.3	394.5	356.1	348.4	340.7
77.5°	724.9	463.6	215.2	222.9	230.5	258.7	358.6	345.8	312.5	294.6	292.0
80°	315.1	238.2	184.4	197.2	199.8	220.3	297.1	281.8	251.0	222.9	222.9
82.5°	156.3	133.2	146.0	163.9	158.8	176.7	233.1	207.5	184.4	153.7	148.6
85°	71.7	76.8	107.6	123.0	107.6	110.1	158.8	146.0	115.3	87.1	89.7
87.5°	25.6	35.9	61.5	74.3	53.8	51.2	84.5	61.5	35.9	10.2	12.8
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)