

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: P573115

Luminaire Tested: **ARCH-S-PA2-30-830-U-T2U**

Issue Date: 10/13/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P573115  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2108-332-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 10/13/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH-S-PA2-30-830-U-T2U  
Description: ARCHEON ROADWAY AND AREA LUMINAIRE  
(2) 80 CRI, 3000K, 320mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II U OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4119 lumens  
Efficiency: N/A  
Efficacy: 123.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

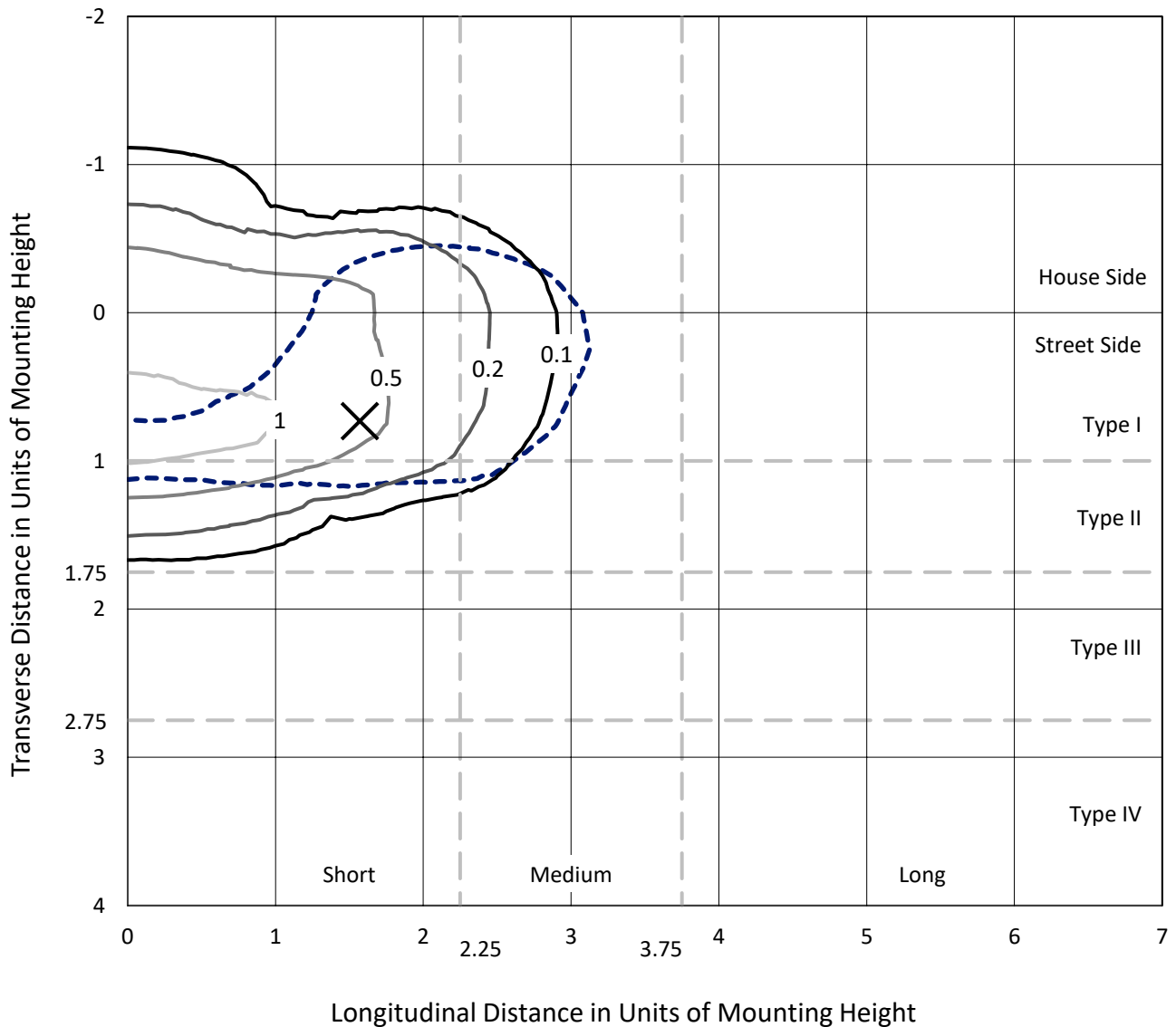
Input Watts (W): 33.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

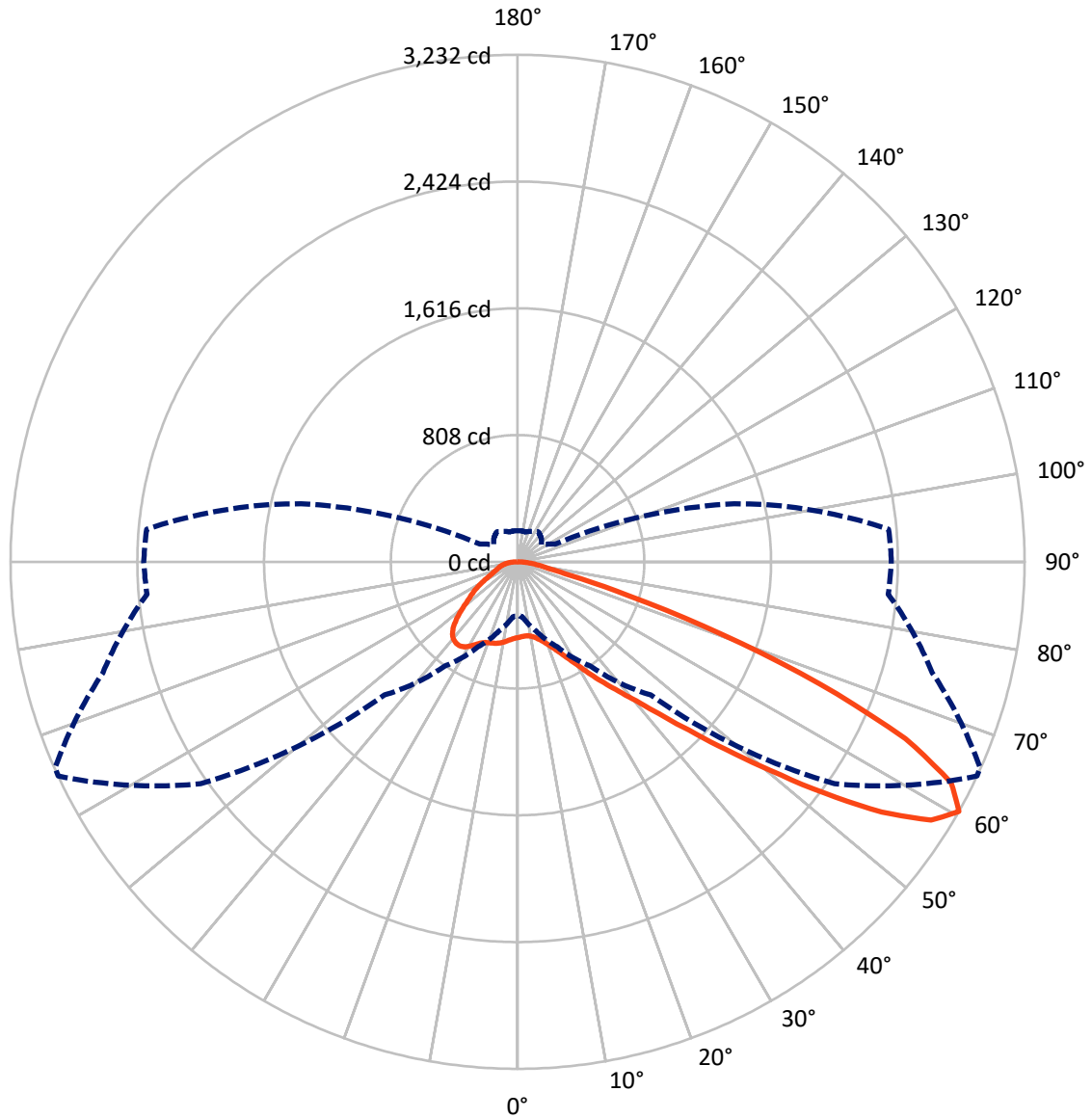
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral      - - - Horizontal Cone Through 60-Deg Vertical

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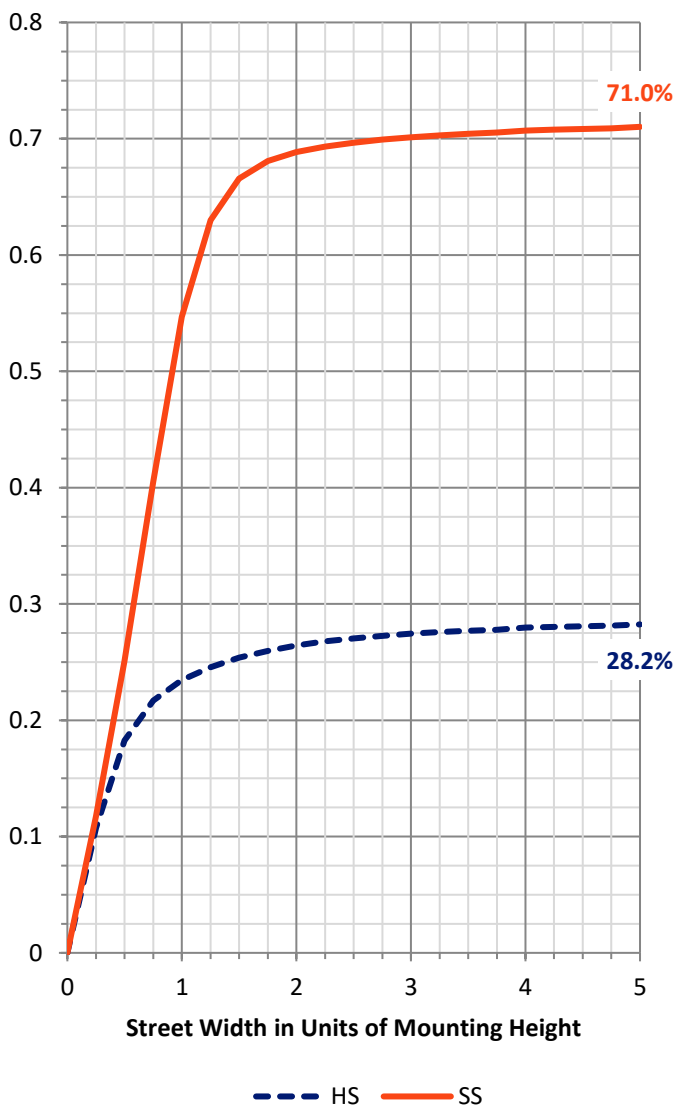
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1179.1	0.0	1179.1
	% Fixture	28.6	0.0	28.6
<b>Street Side</b>	Lumens	2939.8	0.0	2939.8
	% Fixture	71.4	0.0	71.4
<b>Total</b>	Lumens	4119.0	0.0	4119.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	46.7	1.1
10°-20°	150.3	3.6
20°-30°	288.1	7.0
30°-40°	500.3	12.1
40°-50°	848.5	20.6
50°-60°	1056.6	25.7
60°-70°	851.4	20.7
70°-80°	322.4	7.8
80°-90°	54.7	1.3
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°	4119.0	100.0
0°-180°	4119.0	100.0

**Coefficient of Utilization**



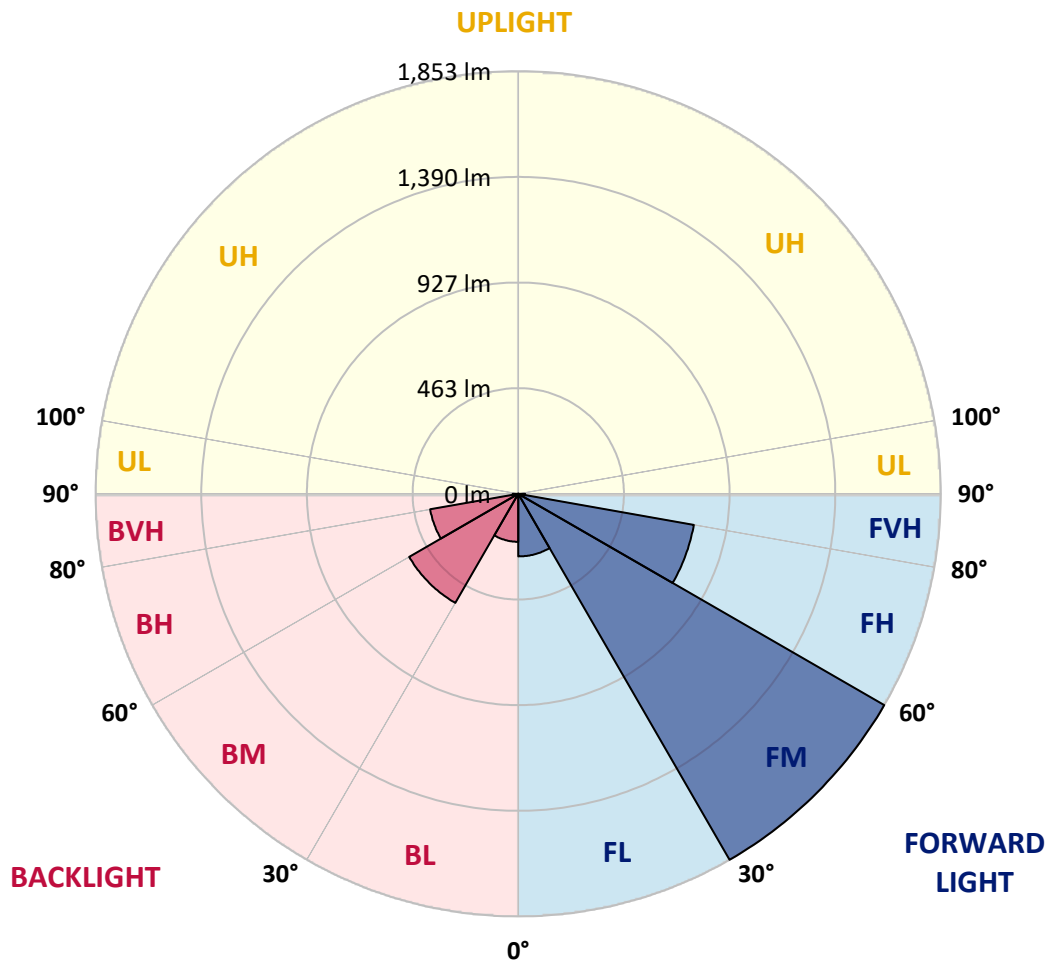
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 CATALOG NUMBER: ARCH-S-PA2-30-830-U-T2U

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	274.6	6.7			
FM (30°-60°)	1853.1	45.0			
FH (60°-80°)	781.8	19.0			G1/1800
FVH (80°-90°)	30.3	0.7			G1/100
BL (0°-30°)	210.4	5.1	B1/500		
BM (30°-60°)	552.3	13.4	B1/1000		
BH (60°-80°)	392.1	9.5	B1/500		G1/500
BVH (80°-90°)	24.4	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	483.3	483.3	483.3	483.3	483.3	483.3	483.3	483.3	483.3	483.3	483.3
2.5°	472.0	472.0	472.0	473.1	474.2	475.4	477.6	477.6	477.6	478.8	481.0
5°	463.0	461.8	463.0	464.1	466.3	468.6	473.1	475.4	475.4	479.9	484.4
7.5°	464.1	461.8	461.8	463.0	465.2	467.5	472.0	475.4	476.5	482.2	490.1
10°	475.4	472.0	472.0	473.1	473.1	475.4	478.8	483.3	484.4	490.1	498.0
12.5°	499.1	495.7	494.6	491.2	487.8	490.1	493.4	494.6	495.7	499.1	507.0
15°	548.8	543.1	534.1	527.3	518.3	512.6	511.5	512.6	512.6	513.8	518.3
17.5°	619.9	613.1	599.6	584.9	563.5	545.4	539.7	535.2	535.2	531.8	531.8
20°	706.9	696.7	680.9	659.4	627.8	595.1	575.9	565.7	562.3	556.7	548.8
22.5°	807.4	800.6	780.3	747.5	700.1	656.0	624.4	601.8	601.8	588.3	571.4
25°	925.9	913.5	889.8	851.4	787.0	723.8	680.9	648.1	644.8	623.3	596.2
27.5°	1041.1	1033.2	1003.8	953.0	876.2	802.8	743.0	704.6	699.0	665.1	623.3
30°	1181.1	1172.1	1128.0	1056.9	974.5	890.9	820.9	771.2	765.6	719.3	660.6
32.5°	1355.0	1324.5	1270.3	1189.0	1082.9	989.1	909.0	855.9	849.1	796.1	726.1
35°	1566.2	1540.2	1446.5	1360.6	1234.2	1111.1	1015.1	945.1	936.1	872.8	784.8
37.5°	1715.2	1702.8	1638.4	1570.7	1426.1	1260.1	1142.7	1045.6	1036.6	953.0	839.0
40°	1808.9	1796.5	1778.4	1759.2	1679.1	1491.6	1296.3	1164.2	1149.5	1070.4	947.4
42.5°	1857.5	1847.3	1850.7	1889.1	1911.7	1882.3	1515.3	1322.3	1312.1	1216.1	1079.5
45°	1829.2	1822.5	1855.2	1956.8	2067.5	2284.3	1796.5	1530.0	1502.9	1388.9	1239.8
47.5°	1693.7	1673.4	1750.2	1923.0	2160.1	2476.3	2135.3	1786.3	1757.0	1593.3	1402.4
50°	1414.8	1409.2	1514.2	1733.3	2124.0	2551.9	2497.7	2089.0	2067.5	1813.4	1583.1
52.5°	1155.1	1152.9	1234.2	1435.2	1893.6	2498.8	2760.8	2449.2	2384.8	2034.8	1779.6
55°	896.6	895.4	967.7	1117.9	1510.8	2249.3	2885.0	2816.1	2768.7	2276.4	1981.7
57.5°	613.1	605.2	699.0	813.0	1134.8	1781.8	2803.7	3106.3	3077.0	2532.7	2196.2
60°	341.0	352.3	456.2	597.3	811.9	1200.3	2465.0	3231.7	3227.2	2737.1	2371.2
62.5°	241.6	246.2	290.2	424.6	534.1	687.7	1901.5	3101.8	3137.9	2850.0	2470.6
65°	201.0	203.2	224.7	313.9	390.7	397.5	1185.6	2716.8	2764.2	2815.0	2492.1
67.5°	189.7	190.8	202.1	231.5	306.0	287.9	529.6	2074.3	2174.8	2532.7	2352.1
70°	172.8	173.9	190.8	204.4	247.3	227.0	272.1	1377.6	1513.1	2002.0	2028.0
72.5°	147.9	151.3	164.9	192.0	201.0	188.6	210.0	736.2	870.6	1339.2	1566.2
75°	127.6	129.9	140.0	162.6	188.6	150.2	178.4	335.4	392.9	785.9	991.4
77.5°	102.8	103.9	118.6	133.2	158.1	121.9	138.9	201.0	211.2	383.9	448.3
80°	77.9	77.9	88.1	106.1	117.4	117.4	101.6	140.0	145.7	182.9	177.3
82.5°	59.8	58.7	66.6	74.5	84.7	98.2	76.8	92.6	94.8	110.7	94.8
85°	39.5	39.5	44.0	50.8	56.5	54.2	59.8	54.2	56.5	68.9	51.9
87.5°	16.9	16.9	23.7	22.6	24.8	26.0	29.4	26.0	26.0	31.6	23.7
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°	483.3	483.3	483.3	483.3	483.3	483.3	483.3	483.3	483.3	483.3	483.3
2.5°	482.2	483.3	485.5	486.7	490.1	491.2	491.2	493.4	493.4	495.7	495.7
5°	485.5	488.9	492.3	495.7	499.1	500.2	502.5	503.6	503.6	505.9	504.7
7.5°	492.3	495.7	502.5	505.9	510.4	512.6	511.5	512.6	511.5	512.6	512.6
10°	501.3	505.9	513.8	518.3	521.7	522.8	519.4	516.0	511.5	511.5	511.5
12.5°	511.5	514.9	525.1	528.4	530.7	527.3	518.3	511.5	508.1	509.3	508.1
15°	521.7	525.1	533.0	536.4	536.4	526.2	518.3	516.0	514.9	516.0	516.0
17.5°	531.8	535.2	542.0	542.0	538.6	530.7	522.8	514.9	509.3	505.9	505.9
20°	545.4	545.4	547.6	547.6	546.5	534.1	514.9	495.7	484.4	477.6	476.5
22.5°	563.5	558.9	554.4	554.4	558.9	526.2	488.9	459.6	441.5	439.2	434.7
25°	582.6	572.5	561.2	569.1	561.2	505.9	452.8	413.3	391.8	383.9	386.2
27.5°	603.0	587.2	570.2	592.8	549.9	466.3	402.0	357.9	337.6	332.0	332.0
30°	631.2	607.5	582.6	617.7	528.4	421.2	342.1	310.5	299.2	294.7	293.6
32.5°	685.4	649.3	613.1	640.2	504.7	362.5	301.5	282.3	268.7	264.2	267.6
35°	734.0	683.1	659.4	650.4	467.5	315.0	276.6	259.7	248.4	242.8	242.8
37.5°	778.0	729.4	711.4	650.4	418.9	285.7	260.8	247.3	232.6	228.1	228.1
40°	874.0	809.6	778.0	641.4	359.1	271.0	252.9	237.1	224.7	220.2	219.1
42.5°	1006.1	919.1	846.9	621.0	308.3	264.2	248.4	230.3	220.2	216.8	215.7
45°	1146.1	1069.3	912.4	584.9	275.5	257.4	247.3	228.1	215.7	212.3	211.2
47.5°	1315.5	1236.4	988.0	529.6	252.9	252.9	246.2	224.7	213.4	210.0	210.0
50°	1502.9	1437.4	1084.0	466.3	236.0	249.5	243.9	224.7	212.3	208.9	207.8
52.5°	1694.9	1664.4	1184.5	404.2	219.1	245.0	242.8	224.7	210.0	206.6	206.6
55°	1938.8	1913.9	1300.8	357.9	205.5	236.0	242.8	222.4	206.6	204.4	204.4
57.5°	2178.2	2169.1	1391.1	317.3	195.3	224.7	239.4	219.1	203.2	202.1	202.1
60°	2382.5	2373.5	1429.5	266.5	185.2	213.4	232.6	213.4	197.6	198.7	198.7
62.5°	2509.0	2457.1	1401.3	220.2	175.0	203.2	224.7	206.6	192.0	195.3	194.2
65°	2531.6	2410.8	1291.8	184.1	163.7	192.0	215.7	198.7	184.1	192.0	190.8
67.5°	2365.6	2164.6	1086.3	160.3	152.4	179.5	205.5	187.4	175.0	186.3	182.9
70°	2006.5	1758.1	804.0	142.3	141.1	164.9	192.0	173.9	162.6	168.2	163.7
72.5°	1493.9	1269.2	520.5	128.7	128.7	147.9	172.8	157.0	145.7	146.8	142.3
75°	931.6	780.3	295.8	116.3	116.3	131.0	153.6	137.8	129.9	125.3	131.0
77.5°	423.4	343.3	155.8	103.9	105.0	111.8	132.1	117.4	108.4	101.6	105.0
80°	157.0	140.0	101.6	89.2	91.5	92.6	106.1	93.7	85.8	81.3	79.0
82.5°	81.3	75.7	68.9	71.1	74.5	71.1	82.4	70.0	61.0	57.6	48.6
85°	40.6	39.5	41.8	47.4	51.9	44.0	49.7	45.2	37.3	27.1	27.1
87.5°	15.8	16.9	15.8	21.5	23.7	20.3	22.6	15.8	11.3	5.6	4.5
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)