

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: P573225

Luminaire Tested: **ARCH-S-PA2-50-730-U-T3**

Issue Date: 10/13/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P573225  
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-PA2-50-730-U-T3  
Description: ARCHEON ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 3000K, 520mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7299 lumens  
Efficiency: N/A  
Efficacy: 136.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2

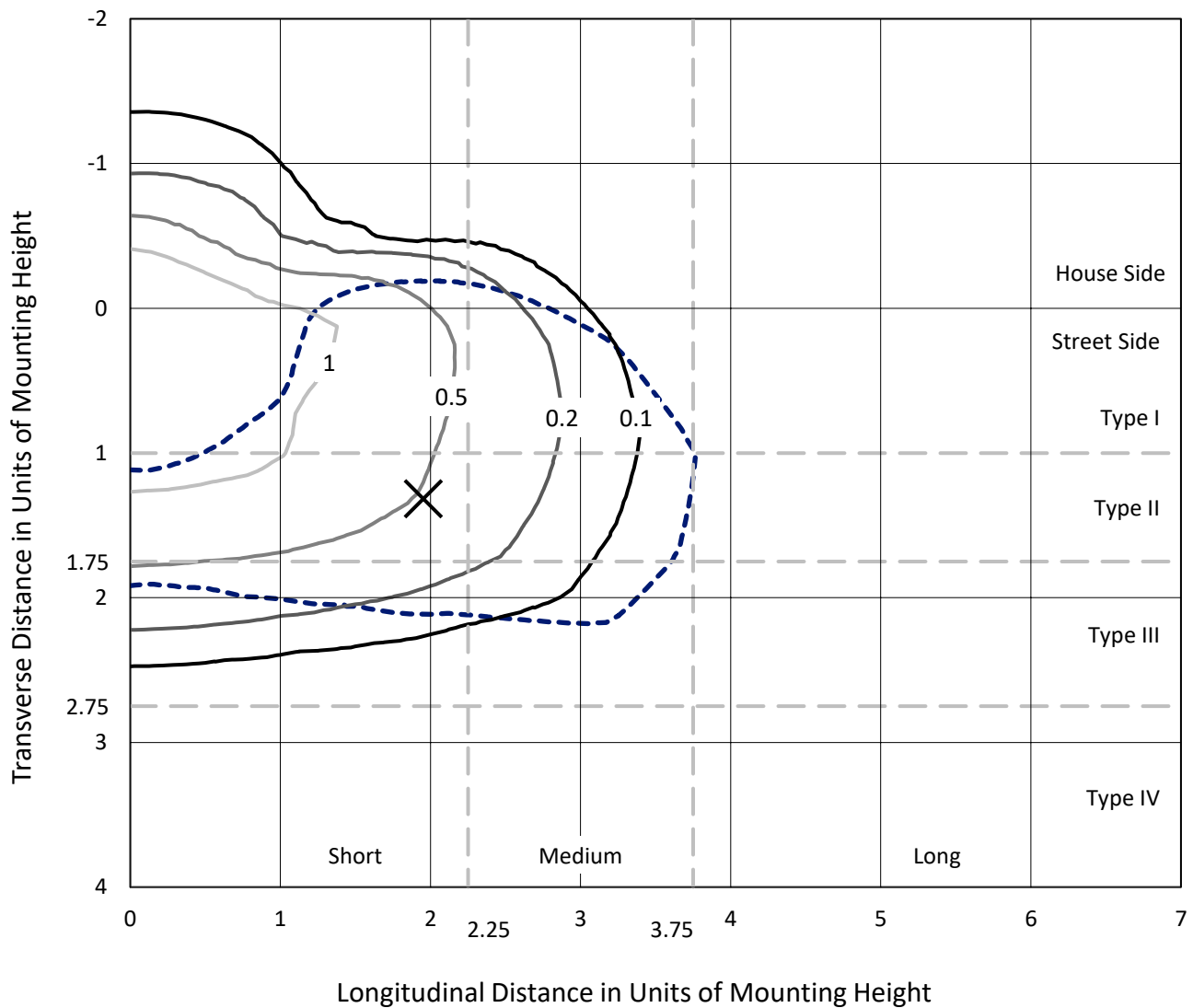
Input Watts (W): 53.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

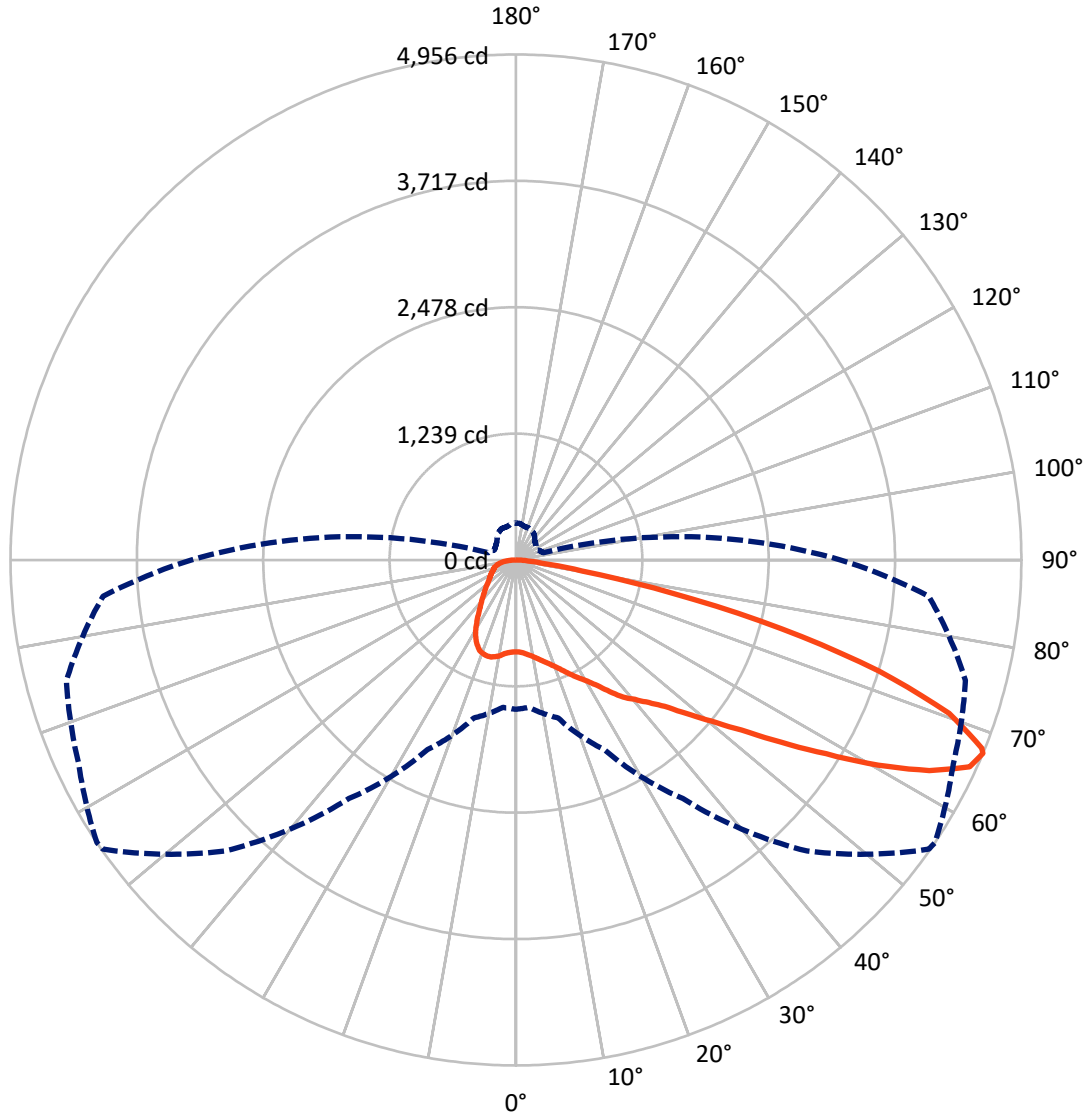
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 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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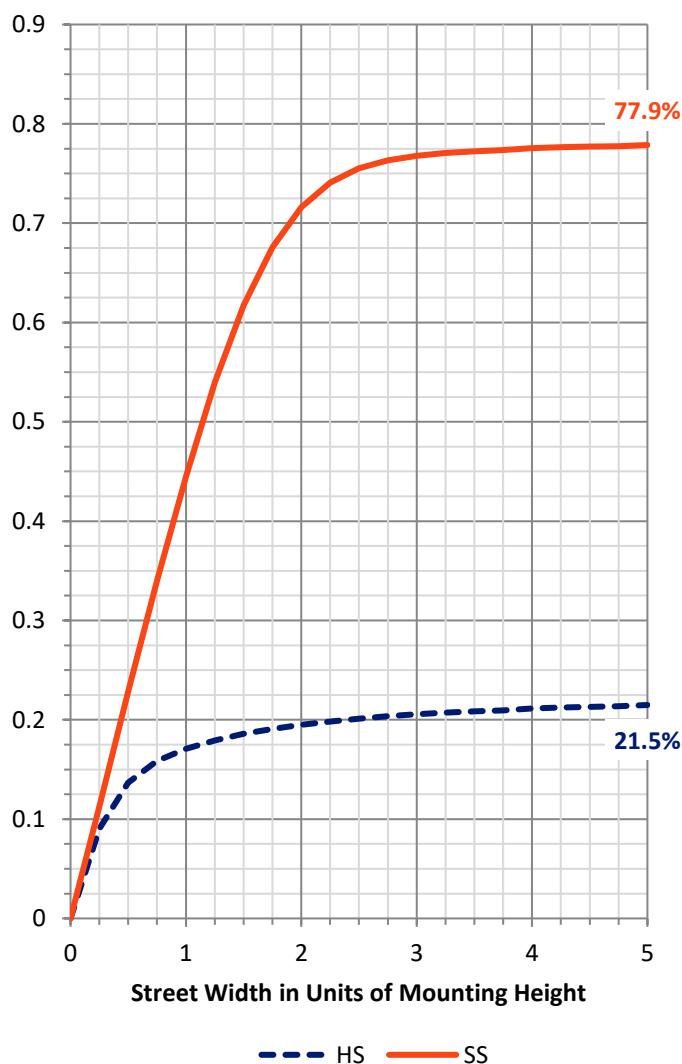
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1596.9	0.0	1596.9
	% Fixture	21.9	0.0	21.9
<b>Street Side</b>	Lumens	5702.1	0.0	5702.1
	% Fixture	78.1	0.0	78.1
<b>Total</b>	Lumens	7299.0	0.0	7299.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	88.6	1.2
10°-20°	284.3	3.9
20°-30°	494.8	6.8
30°-40°	725.5	9.9
40°-50°	1061.6	14.5
50°-60°	1659.0	22.7
60°-70°	1971.9	27.0
70°-80°	898.1	12.3
80°-90°	115.2	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°	7299.0	100.0
0°-180°	7299.0	100.0

**Coefficient of Utilization**



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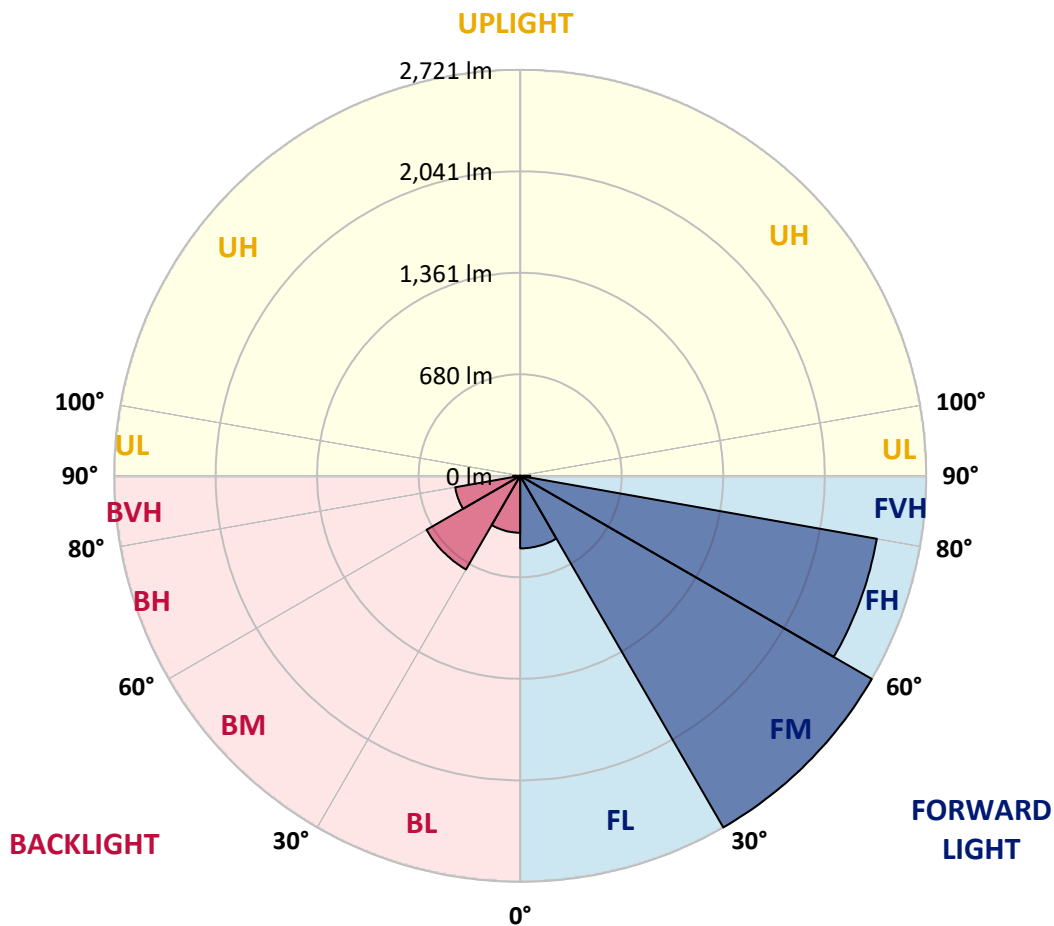
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	486.2	6.7			
FM (30°-60°)	2721.3	37.3			
FH (60°-80°)	2427.5	33.3			G2/5000
FVH (80°-90°)	67.2	0.9			G1/100
BL (0°-30°)	381.6	5.2	B1/500		
BM (30°-60°)	724.9	9.9	B1/1000		
BH (60°-80°)	442.4	6.1	B1/500		G1/500
BVH (80°-90°)	48.0	0.7			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°	56°	65°	75°	85°
0°	901.1	901.1	901.1	901.1	901.1	901.1	901.1	901.1	901.1	901.1	901.1
2.5°	915.0	911.0	909.0	911.0	909.0	905.1	907.1	905.1	903.1	901.1	901.1
5°	926.8	922.9	920.9	922.9	924.9	920.9	920.9	920.9	915.0	913.0	909.0
7.5°	934.7	928.8	928.8	932.8	936.7	938.7	942.6	940.7	934.7	930.8	922.9
10°	960.4	952.5	952.5	952.5	956.5	960.4	964.4	966.4	964.4	962.4	956.5
12.5°	999.9	992.0	992.0	992.0	992.0	990.1	996.0	998.0	1001.9	1001.9	992.0
15°	1053.3	1043.4	1039.5	1031.6	1029.6	1025.6	1033.5	1033.5	1039.5	1041.4	1031.6
17.5°	1104.7	1092.8	1088.9	1081.0	1073.1	1063.2	1071.1	1073.1	1084.9	1086.9	1071.1
20°	1158.0	1154.1	1148.2	1136.3	1122.5	1112.6	1120.5	1118.5	1128.4	1132.4	1112.6
22.5°	1227.2	1217.3	1213.4	1197.6	1181.8	1171.9	1171.9	1175.8	1185.7	1185.7	1156.1
25°	1310.2	1296.4	1286.5	1268.7	1248.9	1237.1	1239.1	1243.0	1256.9	1247.0	1201.5
27.5°	1413.0	1399.1	1385.3	1349.7	1330.0	1306.3	1304.3	1308.2	1330.0	1304.3	1245.0
30°	1509.8	1503.9	1492.0	1464.4	1432.7	1393.2	1375.4	1377.4	1393.2	1357.6	1282.5
32.5°	1592.8	1584.9	1579.0	1559.2	1537.5	1490.0	1466.3	1468.3	1466.3	1422.9	1328.0
35°	1691.6	1679.8	1675.8	1658.0	1630.4	1598.7	1588.9	1584.9	1573.0	1513.8	1387.3
37.5°	1786.5	1774.6	1768.7	1758.8	1737.1	1709.4	1709.4	1707.4	1683.7	1600.7	1446.6
40°	1899.1	1885.3	1867.5	1861.6	1843.8	1824.0	1808.2	1798.3	1756.8	1681.7	1561.2
42.5°	2035.5	2027.6	2017.7	1992.0	1964.3	1960.4	1914.9	1911.0	1881.3	1837.9	1723.2
45°	2231.1	2215.3	2201.5	2193.6	2160.0	2124.4	2061.2	2045.4	2045.4	2035.5	1912.9
47.5°	2428.7	2401.1	2420.8	2414.9	2407.0	2367.5	2244.9	2246.9	2243.0	2268.7	2191.6
50°	2561.1	2545.3	2600.7	2626.4	2681.7	2681.7	2505.8	2484.1	2499.9	2575.0	2476.2
52.5°	2663.9	2654.0	2717.3	2818.0	2982.1	2997.9	2816.1	2770.6	2792.3	2899.1	2859.5
55°	2746.9	2737.0	2810.1	2986.0	3248.8	3345.7	3173.8	3154.0	3110.5	3225.1	3237.0
57.5°	2796.3	2774.6	2885.2	3120.4	3466.2	3689.5	3592.7	3586.8	3486.0	3592.7	3646.1
60°	2721.2	2707.4	2859.5	3175.7	3642.1	4013.6	4084.8	4084.8	3904.9	3962.3	4027.5
62.5°	2478.1	2460.4	2620.4	3047.3	3663.8	4278.4	4572.9	4549.2	4308.1	4306.1	4248.8
65°	2015.7	1994.0	2173.8	2624.4	3389.2	4310.1	4902.9	4889.1	4610.4	4531.4	4262.6
67°	1464.4	1450.5	1604.7	2051.3	2855.6	4035.4	4944.4	4956.3	4731.0	4563.0	4063.0
67.5°	1314.2	1312.2	1440.6	1883.3	2699.5	3934.6	4916.7	4928.6	4729.0	4537.3	3984.0
70°	612.6	640.3	760.8	1079.0	1820.1	3098.7	4462.2	4507.7	4476.1	4240.9	3355.6
72.5°	284.6	296.4	349.8	521.7	978.2	1997.9	3616.4	3725.1	3863.4	3638.2	2658.0
75°	175.9	179.8	209.5	270.7	460.5	960.4	2575.0	2693.5	2903.0	2737.0	1699.5
77.5°	138.3	140.3	160.1	193.7	268.8	413.0	1413.0	1561.2	1833.9	1618.5	855.7
80°	102.8	106.7	122.5	150.2	189.7	211.5	600.8	656.1	885.3	677.8	355.7
82.5°	75.1	79.0	94.9	108.7	132.4	134.4	245.0	258.9	379.4	274.7	154.1
85°	63.2	63.2	73.1	81.0	88.9	75.1	120.5	118.6	146.2	124.5	61.3
87.5°	29.6	31.6	69.2	51.4	43.5	31.6	35.6	37.5	45.5	49.4	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°	901.1	901.1	901.1	901.1	901.1	901.1	901.1	901.1	901.1	901.1	901.1
2.5°	899.2	899.2	899.2	901.1	903.1	903.1	905.1	905.1	907.1	909.0	913.0
5°	907.1	907.1	905.1	907.1	911.0	913.0	916.9	920.9	924.9	928.8	930.8
7.5°	922.9	920.9	920.9	920.9	924.9	928.8	934.7	938.7	944.6	946.6	950.5
10°	952.5	948.6	948.6	950.5	952.5	946.6	944.6	942.6	948.6	952.5	956.5
12.5°	988.1	984.1	982.2	976.2	968.3	956.5	946.6	938.7	940.7	944.6	950.5
15°	1025.6	1017.7	1013.8	999.9	980.2	954.5	938.7	928.8	928.8	928.8	934.7
17.5°	1065.2	1057.3	1041.4	1015.8	978.2	942.6	922.9	905.1	897.2	895.2	899.2
20°	1102.7	1090.9	1065.2	1025.6	966.4	918.9	893.2	863.6	851.7	843.8	847.8
22.5°	1138.3	1122.5	1086.9	1025.6	946.6	883.4	837.9	798.4	778.6	774.7	776.6
25°	1175.8	1156.1	1108.6	1013.8	903.1	830.0	766.8	725.3	699.6	695.6	701.5
27.5°	1213.4	1183.7	1126.4	982.2	853.7	756.9	689.7	650.2	636.3	628.4	630.4
30°	1245.0	1217.3	1144.2	938.7	786.5	671.9	610.6	592.9	583.0	579.0	579.0
32.5°	1286.5	1260.8	1156.1	887.3	707.5	594.8	555.3	541.5	533.6	523.7	525.7
35°	1337.9	1314.2	1150.1	822.1	632.4	543.5	511.8	492.1	474.3	460.5	458.5
37.5°	1407.0	1389.3	1120.5	743.0	563.2	505.9	474.3	448.6	422.9	401.2	397.2
40°	1521.7	1480.2	1077.0	656.1	515.8	476.3	438.7	407.1	375.5	351.8	345.8
42.5°	1667.9	1580.9	1017.7	567.2	476.3	444.6	407.1	365.6	336.0	314.2	314.2
45°	1837.9	1689.6	946.6	500.0	434.8	413.0	367.6	332.0	314.2	300.4	298.4
47.5°	2039.4	1798.3	855.7	446.6	401.2	385.4	339.9	318.2	306.3	294.5	292.5
50°	2310.2	1944.6	788.5	401.2	367.6	353.7	332.0	314.2	302.4	294.5	292.5
52.5°	2620.4	2132.3	741.1	365.6	339.9	334.0	330.0	316.2	304.3	298.4	296.4
55°	2956.4	2363.5	695.6	336.0	318.2	326.1	334.0	320.1	312.2	304.3	300.4
57.5°	3272.6	2559.2	622.5	310.3	302.4	316.2	332.0	322.1	312.2	306.3	304.3
60°	3488.0	2658.0	521.7	286.5	286.5	302.4	326.1	312.2	302.4	304.3	304.3
62.5°	3557.1	2620.4	413.0	264.8	270.7	286.5	308.3	300.4	296.4	306.3	306.3
65°	3454.4	2468.3	330.0	247.0	254.9	266.8	298.4	306.3	318.2	339.9	341.9
67°	3185.6	2223.2	278.6	233.2	241.1	260.9	310.3	337.9	337.9	361.6	361.6
67.5°	3106.6	2140.2	270.7	229.2	239.1	260.9	316.2	345.8	337.9	365.6	365.6
70°	2525.6	1683.7	229.2	217.4	231.2	274.7	341.9	347.8	330.0	355.7	353.7
72.5°	1873.4	1217.3	209.5	205.5	215.4	258.9	339.9	334.0	308.3	316.2	310.3
75°	1158.0	705.5	193.7	189.7	195.6	229.2	314.2	304.3	274.7	268.8	262.8
77.5°	559.3	357.7	166.0	171.9	177.9	199.6	276.7	266.8	241.1	227.3	225.3
80°	243.1	183.8	142.3	152.2	154.1	170.0	229.2	217.4	193.7	171.9	171.9
82.5°	120.5	102.8	112.6	126.5	122.5	136.4	179.8	160.1	142.3	118.6	114.6
85°	55.3	59.3	83.0	94.9	83.0	85.0	122.5	112.6	88.9	67.2	69.2
87.5°	19.8	27.7	47.4	57.3	41.5	39.5	65.2	47.4	27.7	7.9	9.9
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)