

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: P572638

Luminaire Tested: **ARCH-S-PA2-100-722-U-T2U**

Issue Date: 10/13/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P572638  
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-PA2-100-722-U-T2U  
Description: ARCHEON ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 2200K, 1010mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II U OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10099 lumens  
Efficiency: N/A  
Efficacy: 98.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2

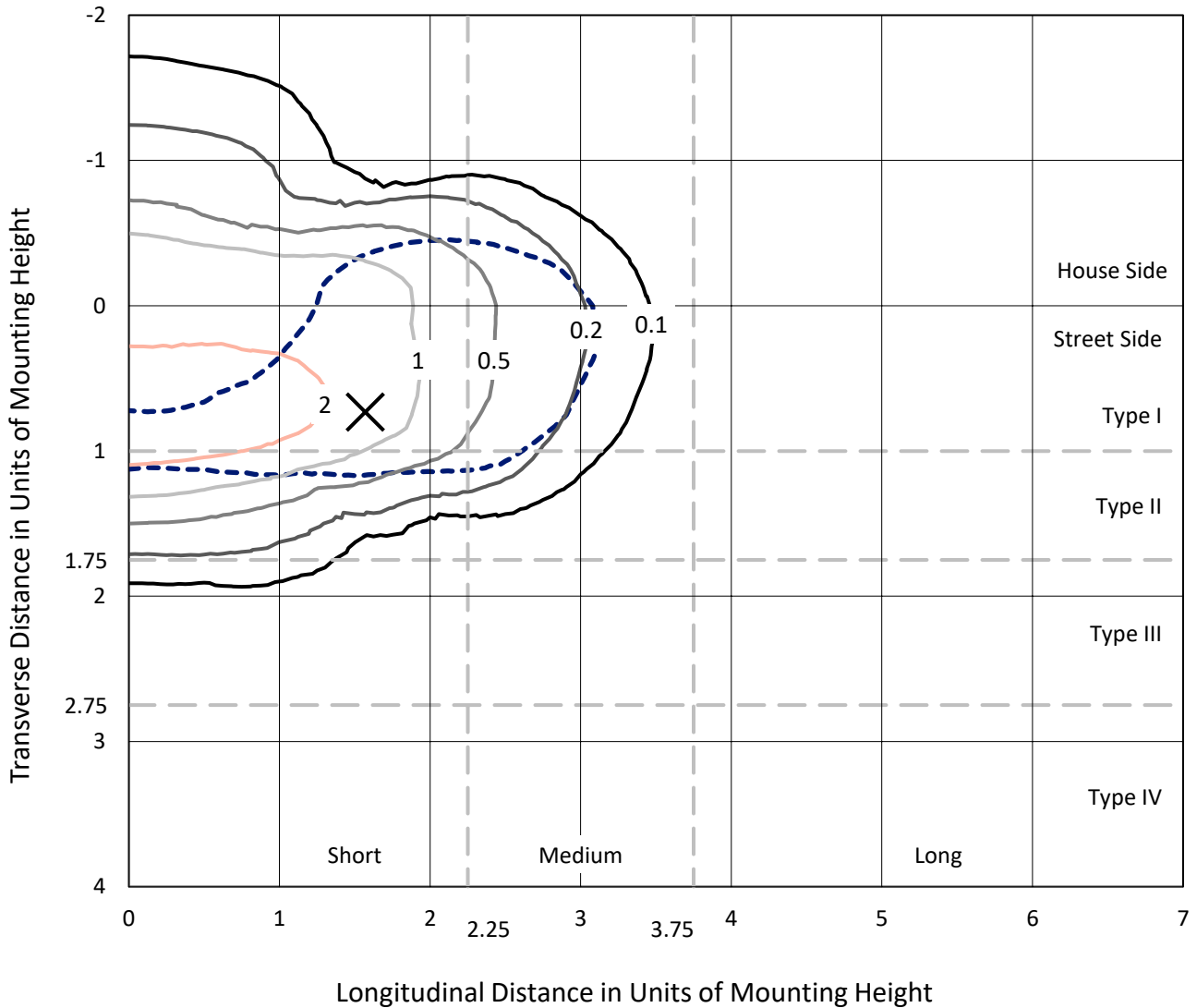
Input Watts (W): 103.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

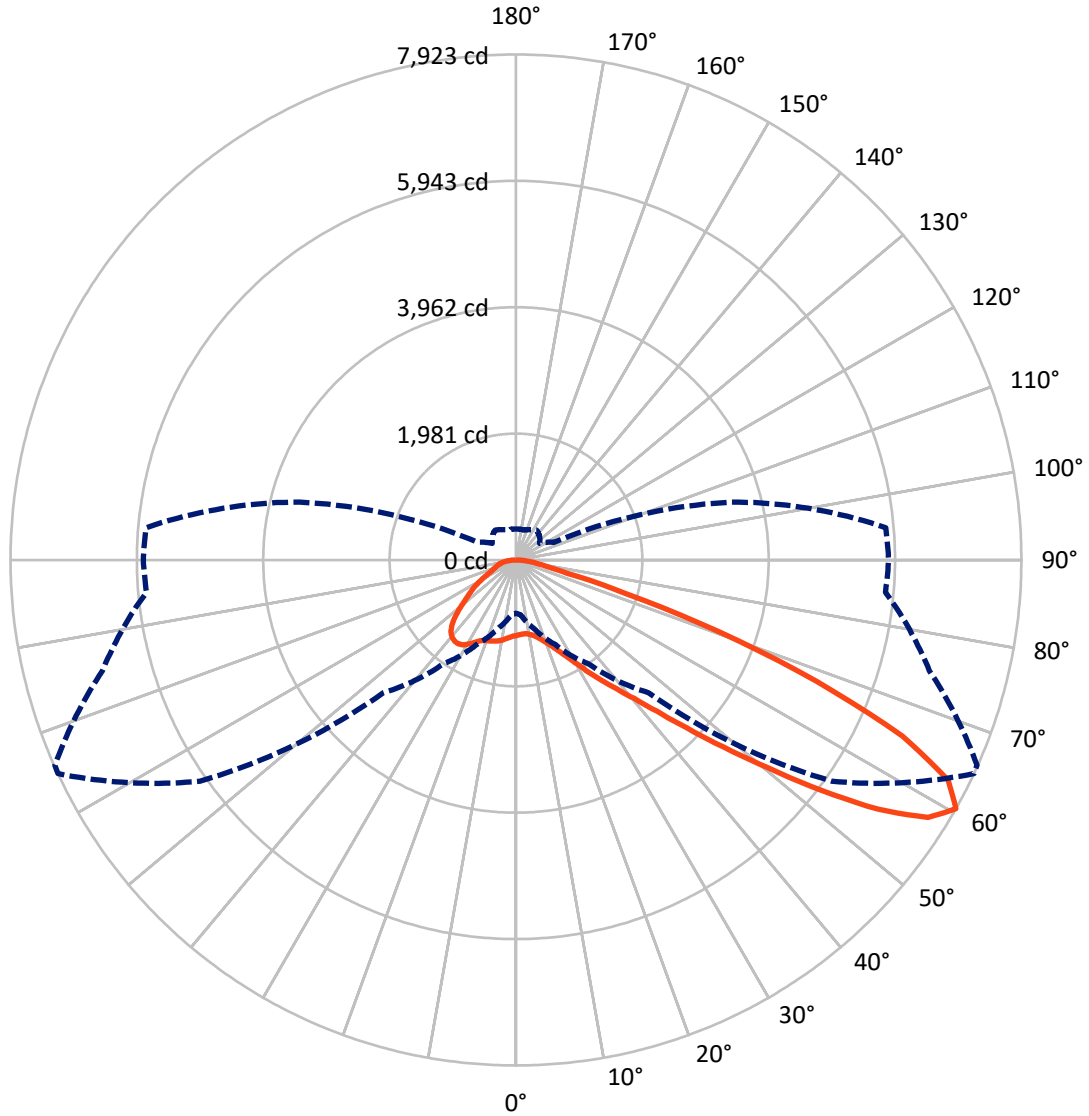
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 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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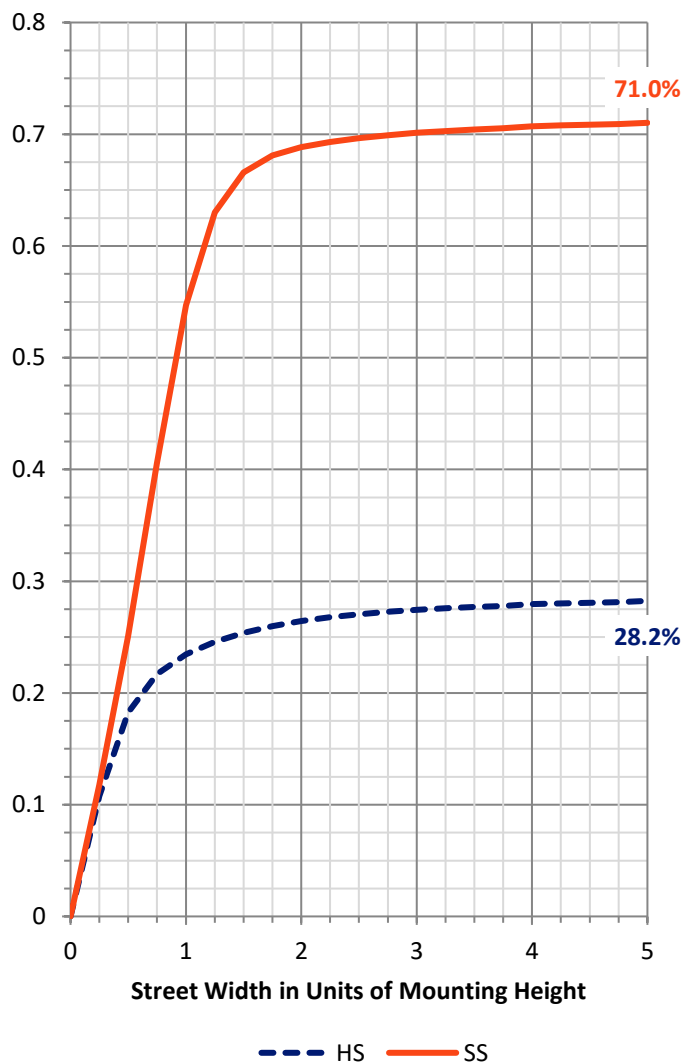
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2891.1	0.0	2891.1
	% Fixture	28.6	0.0	28.6
<b>Street Side</b>	Lumens	7207.9	0.0	7207.9
	% Fixture	71.4	0.0	71.4
<b>Total</b>	Lumens	10099.0	0.0	10099.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	114.5	1.1
10°-20°	368.4	3.6
20°-30°	706.3	7.0
30°-40°	1226.7	12.1
40°-50°	2080.4	20.6
50°-60°	2590.6	25.7
60°-70°	2087.5	20.7
70°-80°	790.5	7.8
80°-90°	134.1	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°	10099.0	100.0
0°-180°	10099.0	100.0

**Coefficient of Utilization**



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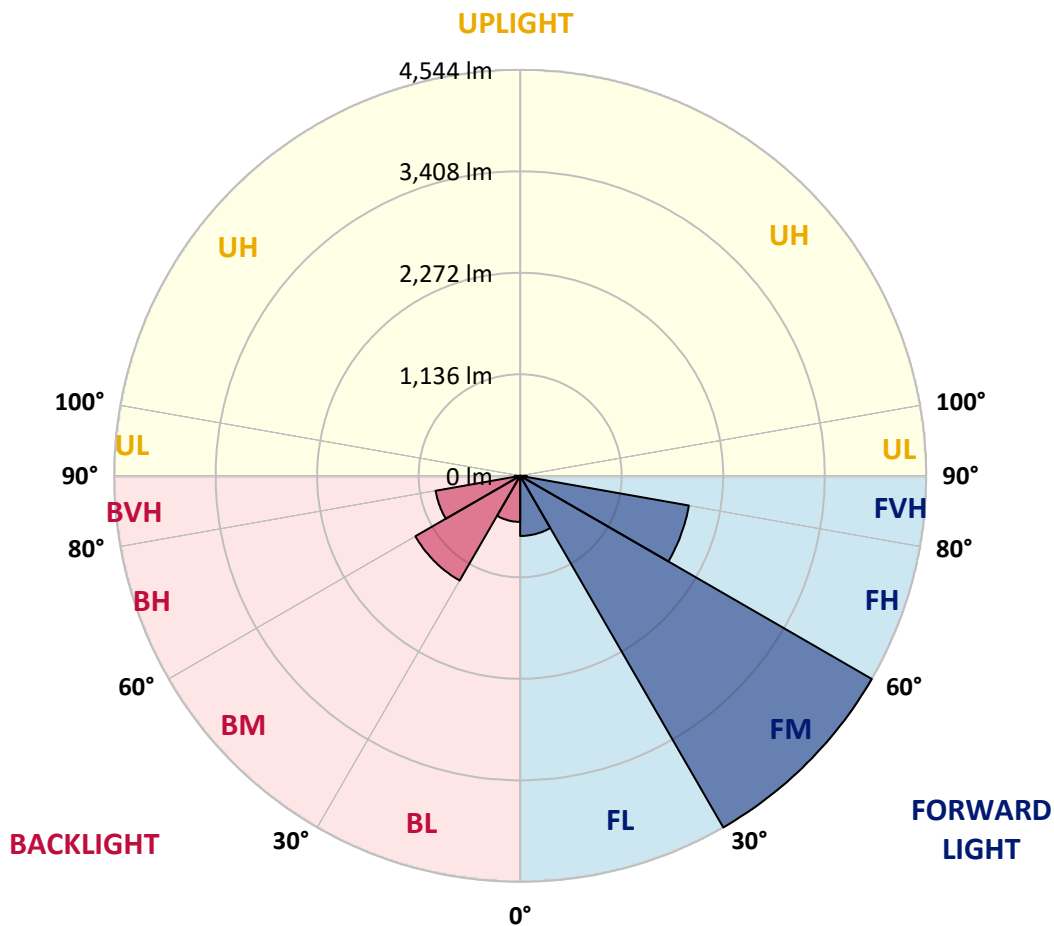
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	673.3	6.7			
FM (30°-60°)	4543.6	45.0			
FH (60°-80°)	1916.7	19.0			G2/5000
FVH (80°-90°)	74.4	0.7			G1/100
BL (0°-30°)	516.0	5.1	B2/1000		
BM (30°-60°)	1354.1	13.4	B2/2500		
BH (60°-80°)	961.3	9.5	B2/1000		G2/1000
BVH (80°-90°)	59.7	0.6			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 II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1184.9	1184.9	1184.9	1184.9	1184.9	1184.9	1184.9	1184.9	1184.9	1184.9	1184.9
2.5°	1157.2	1157.2	1157.2	1160.0	1162.8	1165.5	1171.1	1171.1	1171.1	1173.8	1179.4
5°	1135.1	1132.3	1135.1	1137.9	1143.4	1148.9	1160.0	1165.5	1165.5	1176.6	1187.7
7.5°	1137.9	1132.3	1132.3	1135.1	1140.6	1146.2	1157.2	1165.5	1168.3	1182.1	1201.5
10°	1165.5	1157.2	1157.2	1160.0	1160.0	1165.5	1173.8	1184.9	1187.7	1201.5	1220.9
12.5°	1223.7	1215.4	1212.6	1204.3	1196.0	1201.5	1209.8	1212.6	1215.4	1223.7	1243.1
15°	1345.5	1331.6	1309.5	1292.9	1270.7	1256.9	1254.1	1256.9	1256.9	1259.7	1270.7
17.5°	1519.9	1503.3	1470.1	1434.1	1381.5	1337.2	1323.3	1312.3	1312.3	1304.0	1304.0
20°	1733.1	1708.2	1669.4	1616.8	1539.3	1459.0	1411.9	1387.0	1378.7	1364.9	1345.5
22.5°	1979.5	1962.9	1913.0	1832.7	1716.5	1608.5	1531.0	1475.6	1475.6	1442.4	1400.9
25°	2270.2	2239.7	2181.6	2087.4	1929.6	1774.6	1669.4	1589.1	1580.8	1528.2	1461.8
27.5°	2552.6	2533.2	2461.2	2336.6	2148.4	1968.4	1821.7	1727.5	1713.7	1630.6	1528.2
30°	2895.8	2873.7	2765.7	2591.3	2389.2	2184.3	2012.7	1890.9	1877.0	1763.5	1619.6
32.5°	3322.2	3247.4	3114.6	2915.2	2655.0	2425.2	2228.6	2098.5	2081.9	1951.8	1780.1
35°	3839.9	3776.2	3546.4	3336.0	3026.0	2724.2	2488.9	2317.2	2295.1	2140.0	1924.1
37.5°	4205.3	4174.9	4017.1	3851.0	3496.6	3089.6	2801.7	2563.6	2541.5	2336.6	2057.0
40°	4435.1	4404.7	4360.4	4313.3	4116.8	3657.2	3178.2	2854.3	2818.3	2624.5	2322.8
42.5°	4554.2	4529.3	4537.6	4631.7	4687.1	4615.1	3715.3	3241.9	3217.0	2981.7	2646.7
45°	4485.0	4468.4	4548.6	4797.8	5069.1	5600.7	4404.7	3751.3	3684.9	3405.3	3039.8
47.5°	4152.7	4102.9	4291.2	4714.7	5296.1	6071.3	5235.2	4379.8	4307.8	3906.3	3438.5
50°	3468.9	3455.1	3712.6	4249.6	5207.5	6256.8	6123.9	5121.7	5069.1	4446.2	3881.4
52.5°	2832.2	2826.6	3026.0	3518.8	4642.8	6126.7	6769.0	6004.9	5847.1	4988.8	4363.2
55°	2198.2	2195.4	2372.6	2740.8	3704.2	5514.8	7073.5	6904.6	6788.4	5581.3	4858.7
57.5°	1503.3	1483.9	1713.7	1993.3	2782.3	4368.7	6874.2	7616.1	7544.2	6209.7	5384.7
60°	836.1	863.8	1118.5	1464.5	1990.5	2942.9	6043.6	7923.4	7912.4	6710.8	5813.8
62.5°	592.5	603.5	711.5	1041.0	1309.5	1686.0	4662.1	7605.1	7693.7	6987.7	6057.5
65°	492.8	498.3	550.9	769.6	957.9	974.5	2906.9	6661.0	6777.3	6901.9	6110.1
67.5°	465.1	467.9	495.6	567.5	750.3	706.0	1298.4	5085.7	5332.1	6209.7	5766.8
70°	423.6	426.3	467.9	501.1	606.3	556.5	667.2	3377.6	3709.8	4908.5	4972.2
72.5°	362.7	371.0	404.2	470.6	492.8	462.3	514.9	1805.1	2134.5	3283.4	3839.9
75°	312.8	318.4	343.3	398.7	462.3	368.2	437.4	822.2	963.4	1926.9	2430.7
77.5°	251.9	254.7	290.7	326.7	387.6	299.0	340.5	492.8	517.7	941.3	1099.1
80°	191.0	191.0	215.9	260.2	287.9	287.9	249.2	343.3	357.1	448.5	434.7
82.5°	146.7	144.0	163.3	182.7	207.6	240.9	188.3	227.0	232.6	271.3	232.6
85°	96.9	96.9	108.0	124.6	138.4	132.9	146.7	132.9	138.4	168.9	127.4
87.5°	41.5	41.5	58.1	55.4	60.9	63.7	72.0	63.7	63.7	77.5	58.1
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°	1184.9	1184.9	1184.9	1184.9	1184.9	1184.9	1184.9	1184.9	1184.9	1184.9	1184.9
2.5°	1182.1	1184.9	1190.5	1193.2	1201.5	1204.3	1204.3	1209.8	1209.8	1215.4	1215.4
5°	1190.5	1198.8	1207.1	1215.4	1223.7	1226.4	1232.0	1234.7	1234.7	1240.3	1237.5
7.5°	1207.1	1215.4	1232.0	1240.3	1251.4	1256.9	1254.1	1256.9	1254.1	1256.9	1256.9
10°	1229.2	1240.3	1259.7	1270.7	1279.0	1281.8	1273.5	1265.2	1254.1	1254.1	1254.1
12.5°	1254.1	1262.4	1287.4	1295.7	1301.2	1292.9	1270.7	1254.1	1245.8	1248.6	1245.8
15°	1279.0	1287.4	1306.7	1315.0	1315.0	1290.1	1270.7	1265.2	1262.4	1265.2	1265.2
17.5°	1304.0	1312.3	1328.9	1328.9	1320.6	1301.2	1281.8	1262.4	1248.6	1240.3	1240.3
20°	1337.2	1337.2	1342.7	1342.7	1340.0	1309.5	1262.4	1215.4	1187.7	1171.1	1168.3
22.5°	1381.5	1370.4	1359.3	1359.3	1370.4	1290.1	1198.8	1126.8	1082.5	1076.9	1065.9
25°	1428.5	1403.6	1375.9	1395.3	1375.9	1240.3	1110.2	1013.3	960.7	941.3	946.8
27.5°	1478.4	1439.6	1398.1	1453.5	1348.3	1143.4	985.6	877.6	827.8	813.9	813.9
30°	1547.6	1489.5	1428.5	1514.4	1295.7	1032.6	838.9	761.3	733.7	722.6	719.8
32.5°	1680.5	1591.9	1503.3	1569.7	1237.5	888.7	739.2	692.1	658.9	647.8	656.1
35°	1799.5	1674.9	1616.8	1594.7	1146.2	772.4	678.3	636.8	609.1	595.2	595.2
37.5°	1907.5	1788.4	1744.2	1594.7	1027.1	700.4	639.5	606.3	570.3	559.2	559.2
40°	2142.8	1985.0	1907.5	1572.5	880.4	664.4	620.1	581.4	550.9	539.9	537.1
42.5°	2466.7	2253.6	2076.4	1522.7	755.8	647.8	609.1	564.8	539.9	531.6	528.8
45°	2810.0	2621.8	2236.9	1434.1	675.5	631.2	606.3	559.2	528.8	520.5	517.7
47.5°	3225.3	3031.5	2422.4	1298.4	620.1	620.1	603.5	550.9	523.2	514.9	514.9
50°	3684.9	3524.3	2657.8	1143.4	578.6	611.8	598.0	550.9	520.5	512.2	509.4
52.5°	4155.5	4080.8	2904.2	991.1	537.1	600.8	595.2	550.9	514.9	506.6	506.6
55°	4753.5	4692.6	3189.3	877.6	503.9	578.6	595.2	545.4	506.6	501.1	501.1
57.5°	5340.4	5318.3	3410.8	777.9	478.9	550.9	586.9	537.1	498.3	495.6	495.6
60°	5841.5	5819.4	3504.9	653.4	454.0	523.2	570.3	523.2	484.5	487.3	487.3
62.5°	6151.6	6024.2	3435.7	539.9	429.1	498.3	550.9	506.6	470.6	478.9	476.2
65°	6207.0	5910.7	3167.2	451.3	401.4	470.6	528.8	487.3	451.3	470.6	467.9
67.5°	5800.0	5307.2	2663.3	393.1	373.7	440.2	503.9	459.6	429.1	456.8	448.5
70°	4919.6	4310.5	1971.2	348.8	346.1	404.2	470.6	426.3	398.7	412.5	401.4
72.5°	3662.7	3111.8	1276.3	315.6	315.6	362.7	423.6	384.8	357.1	359.9	348.8
75°	2284.0	1913.0	725.3	285.2	285.2	321.1	376.5	337.8	318.4	307.3	321.1
77.5°	1038.2	841.6	382.1	254.7	257.5	274.1	323.9	287.9	265.8	249.2	257.5
80°	384.8	343.3	249.2	218.7	224.2	227.0	260.2	229.8	210.4	199.3	193.8
82.5°	199.3	185.5	168.9	174.4	182.7	174.4	202.1	171.6	149.5	141.2	119.0
85°	99.7	96.9	102.4	116.3	127.4	108.0	121.8	110.7	91.4	66.4	66.4
87.5°	38.8	41.5	38.8	52.6	58.1	49.8	55.4	38.8	27.7	13.8	11.1
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)