

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: P573457

Luminaire Tested: **ARCH-S-PA2-80-727-U-T2U**

Issue Date: 10/13/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P573457  
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-PA2-80-727-U-T2U  
Description: ARCHEON ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 2700K, 820mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II U OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9776 lumens  
Efficiency: N/A  
Efficacy: 117.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2

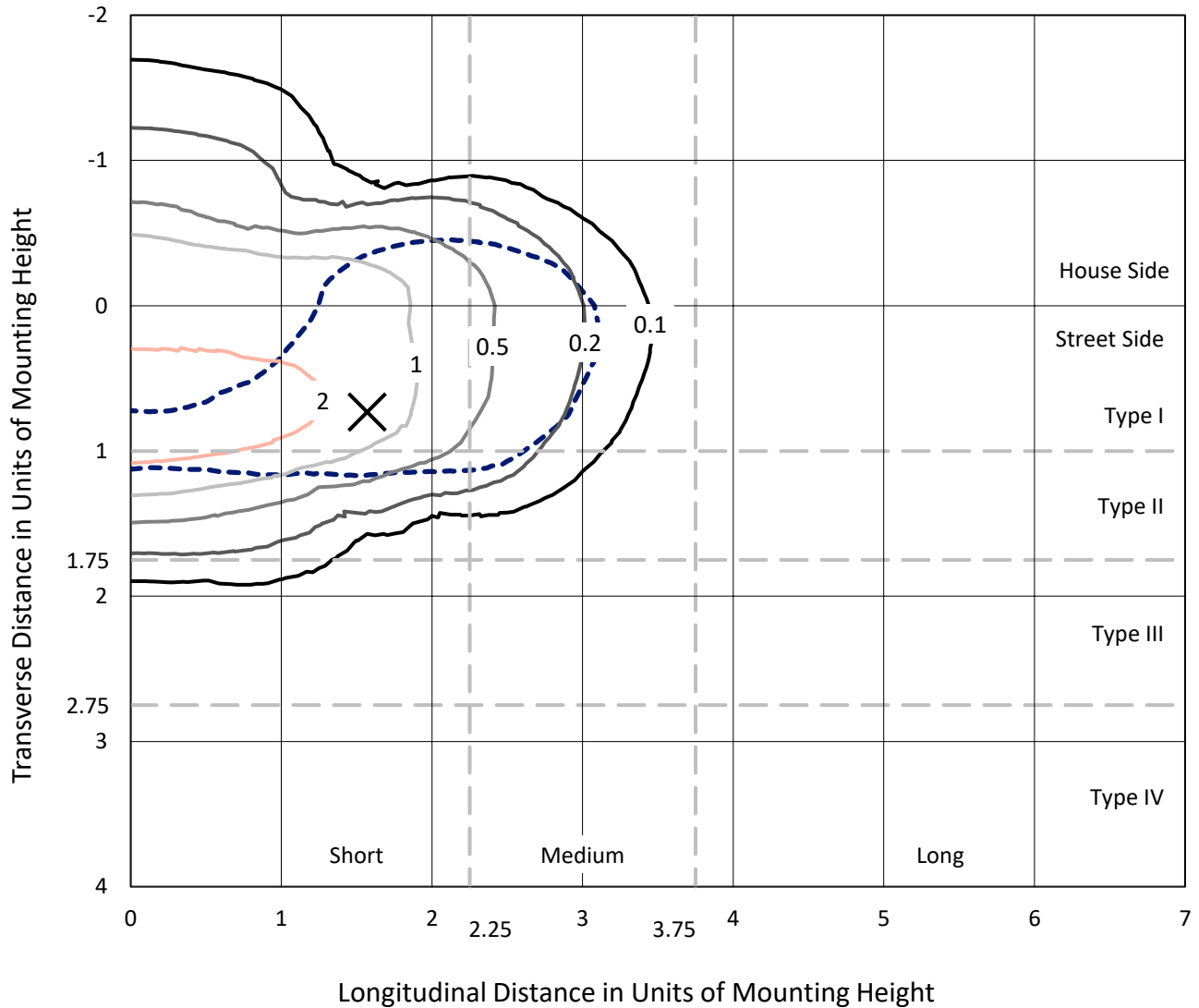
Input Watts (W): 83  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P573457  
 CATALOG NUMBER: ARCH-S-PA2-80-727-U-T2U

### Iso-Footcandle Lines of Horizontal Illumination

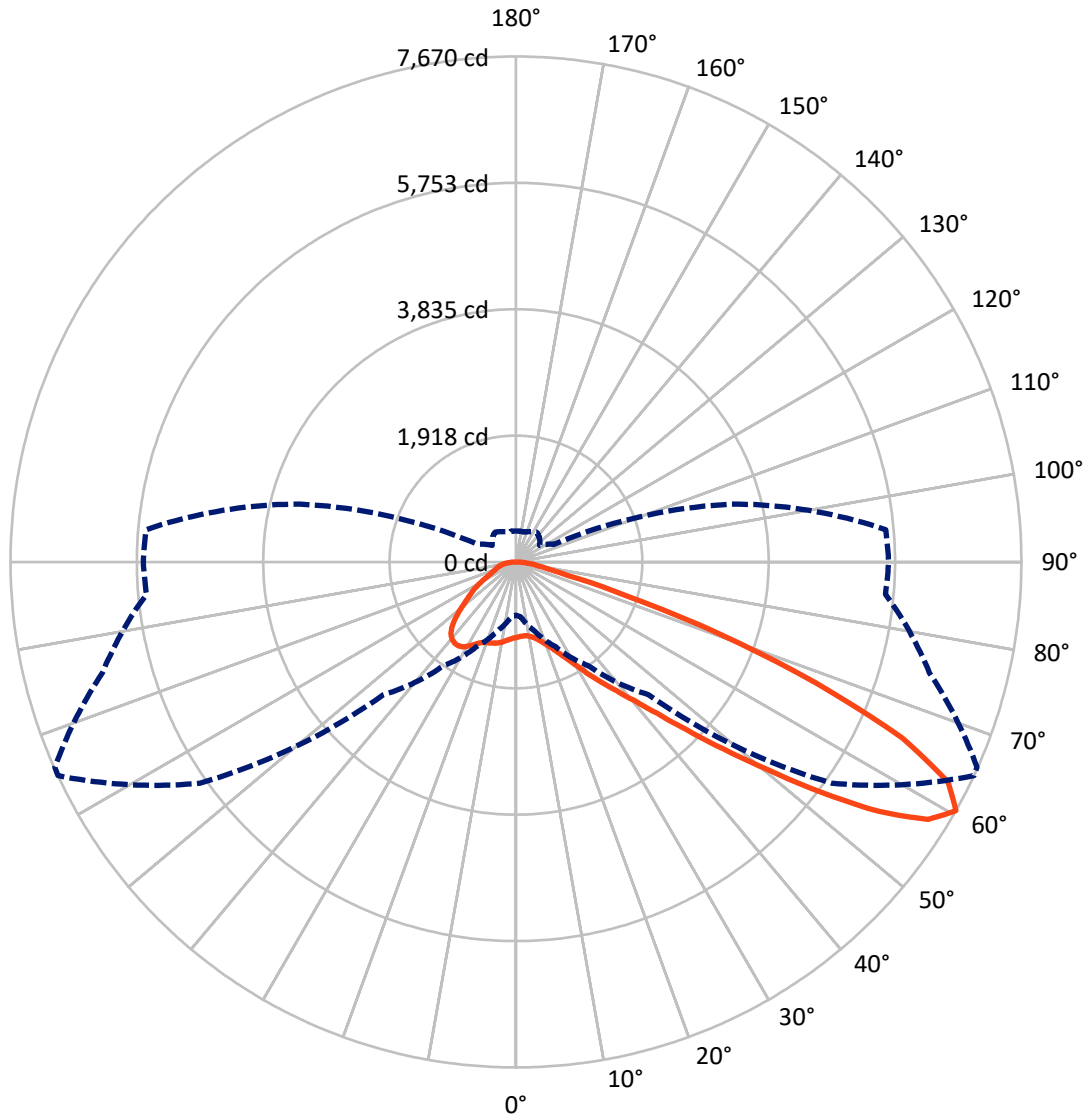
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 fc  
 Type II - Short - N/A

REPORT NUMBER: P573457  
CATALOG NUMBER: ARCH-S-PA2-80-727-U-T2U

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P573457  
 CATALOG NUMBER: ARCH-S-PA2-80-727-U-T2U

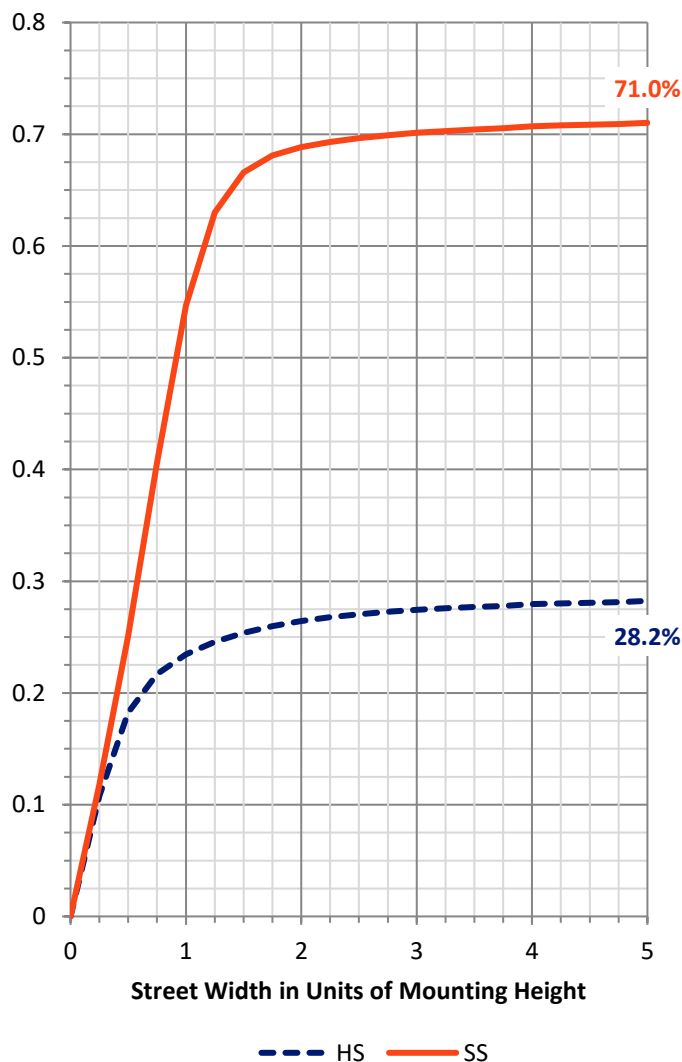
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2798.6	0.0	2798.6
	% Fixture	28.6	0.0	28.6
<b>Street Side</b>	Lumens	6977.4	0.0	6977.4
	% Fixture	71.4	0.0	71.4
<b>Total</b>	Lumens	9776.0	0.0	9776.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	110.8	1.1
10°-20°	356.7	3.6
20°-30°	683.7	7.0
30°-40°	1187.4	12.1
40°-50°	2013.9	20.6
50°-60°	2507.7	25.7
60°-70°	2020.8	20.7
70°-80°	765.2	7.8
80°-90°	129.8	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°	9776.0	100.0
0°-180°	9776.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P573457

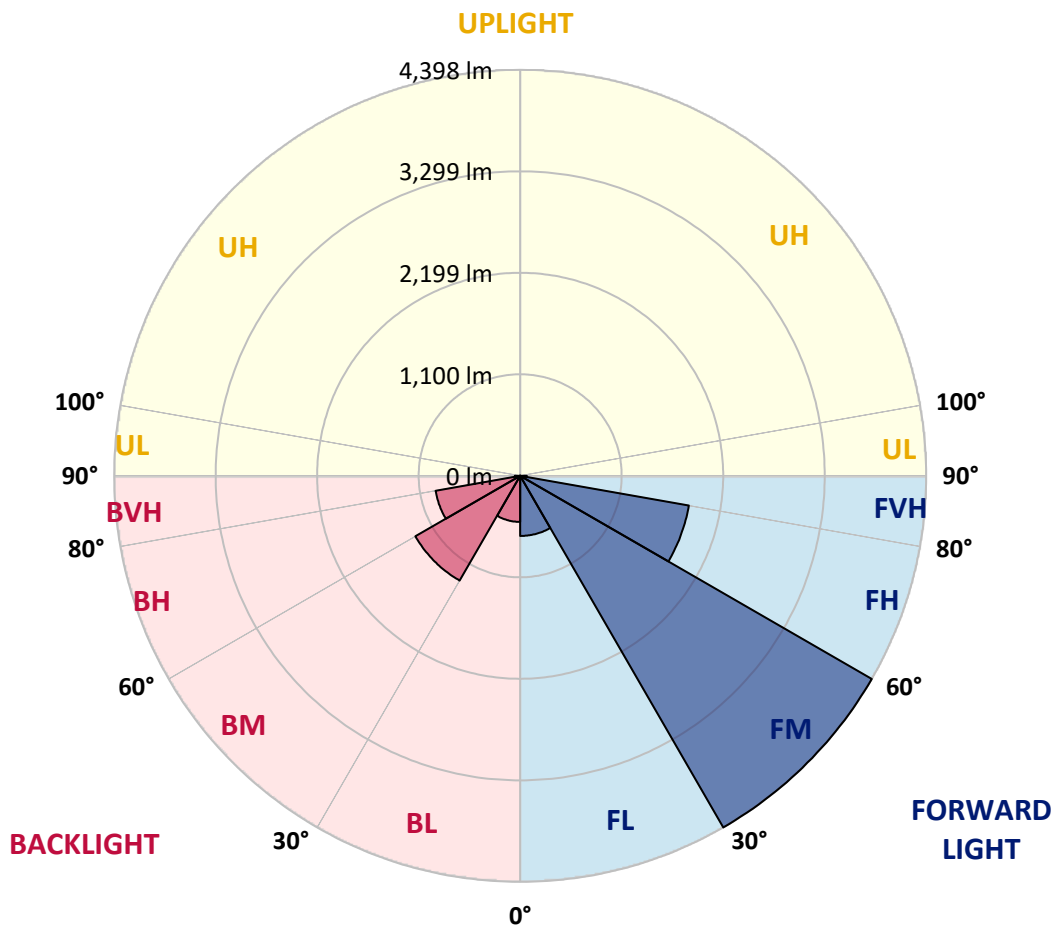
CATALOG NUMBER: ARCH-S-PA2-80-727-U-T2U

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	651.7	6.7			
FM (30°-60°)	4398.2	45.0			
FH (60°-80°)	1855.4	19.0			G2/5000
FVH (80°-90°)	72.0	0.7			G1/100
BL (0°-30°)	499.5	5.1	B1/500		
BM (30°-60°)	1310.8	13.4	B2/2500		
BH (60°-80°)	930.5	9.5	B2/1000		G2/1000
BVH (80°-90°)	57.8	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





REPORT NUMBER: P573457

CATALOG NUMBER: ARCH-S-PA2-80-727-U-T2U

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1147.0	1147.0	1147.0	1147.0	1147.0	1147.0	1147.0	1147.0	1147.0	1147.0	1147.0
2.5°	1120.2	1120.2	1120.2	1122.9	1125.6	1128.3	1133.6	1133.6	1133.6	1136.3	1141.7
5°	1098.8	1096.1	1098.8	1101.5	1106.8	1112.2	1122.9	1128.3	1128.3	1139.0	1149.7
7.5°	1101.5	1096.1	1096.1	1098.8	1104.1	1109.5	1120.2	1128.3	1130.9	1144.3	1163.1
10°	1128.3	1120.2	1120.2	1122.9	1122.9	1128.3	1136.3	1147.0	1149.7	1163.1	1181.9
12.5°	1184.5	1176.5	1173.8	1165.8	1157.7	1163.1	1171.1	1173.8	1176.5	1184.5	1203.3
15°	1302.5	1289.1	1267.6	1251.5	1230.1	1216.7	1214.0	1216.7	1216.7	1219.4	1230.1
17.5°	1471.3	1455.2	1423.1	1388.2	1337.3	1294.4	1281.0	1270.3	1270.3	1262.3	1262.3
20°	1677.6	1653.5	1616.0	1565.1	1490.1	1412.3	1366.8	1342.7	1334.6	1321.2	1302.5
22.5°	1916.2	1900.1	1851.8	1774.1	1661.6	1557.1	1482.0	1428.4	1428.4	1396.3	1356.1
25°	2197.6	2168.1	2111.8	2020.7	1867.9	1717.8	1616.0	1538.3	1530.3	1479.3	1415.0
27.5°	2470.9	2452.2	2382.5	2261.9	2079.6	1905.4	1763.4	1672.3	1658.9	1578.5	1479.3
30°	2803.2	2781.8	2677.3	2508.4	2312.8	2114.5	1948.3	1830.4	1817.0	1707.1	1567.8
32.5°	3215.9	3143.6	3014.9	2822.0	2570.1	2347.6	2157.4	2031.4	2015.3	1889.4	1723.2
35°	3717.1	3655.5	3433.0	3229.3	2929.2	2637.1	2409.3	2243.1	2221.7	2071.6	1862.6
37.5°	4070.8	4041.4	3888.6	3727.8	3384.8	2990.8	2712.1	2481.6	2460.2	2261.9	1991.2
40°	4293.3	4263.8	4220.9	4175.4	3985.1	3540.2	3076.6	2763.0	2728.2	2540.6	2248.5
42.5°	4408.5	4384.4	4392.4	4483.6	4537.2	4467.5	3596.5	3138.2	3114.1	2886.3	2562.0
45°	4341.5	4325.4	4403.2	4644.4	4907.0	5421.5	4263.8	3631.3	3567.0	3296.3	2942.6
47.5°	4019.9	3971.7	4153.9	4564.0	5126.7	5877.1	5067.8	4239.7	4170.0	3781.4	3328.5
50°	3358.0	3344.6	3593.8	4113.7	5041.0	6056.7	5928.1	4957.9	4907.0	4304.0	3757.3
52.5°	2741.6	2736.2	2929.2	3406.2	4494.3	5930.7	6552.5	5812.8	5660.1	4829.3	4223.6
55°	2127.9	2125.2	2296.7	2653.2	3585.8	5338.5	6847.3	6683.8	6571.2	5402.8	4703.3
57.5°	1455.2	1436.5	1658.9	1929.6	2693.4	4229.0	6654.3	7372.5	7302.9	6011.1	5212.5
60°	809.3	836.1	1082.7	1417.7	1926.9	2848.8	5850.3	7670.0	7659.3	6496.2	5627.9
62.5°	573.5	584.2	688.7	1007.7	1267.6	1632.1	4513.0	7361.8	7447.6	6764.2	5863.7
65°	477.0	482.4	533.3	745.0	927.3	943.3	2813.9	6448.0	6560.5	6681.1	5914.7
67.5°	450.2	452.9	479.7	549.4	726.3	683.4	1256.9	4923.1	5161.6	6011.1	5582.3
70°	410.0	412.7	452.9	485.1	586.9	538.7	645.9	3269.5	3591.1	4751.6	4813.2
72.5°	351.1	359.1	391.3	455.6	477.0	447.6	498.5	1747.3	2066.2	3178.4	3717.1
75°	302.8	308.2	332.3	385.9	447.6	356.4	423.4	795.9	932.6	1865.2	2353.0
77.5°	243.9	246.6	281.4	316.2	375.2	289.4	329.6	477.0	501.2	911.2	1063.9
80°	184.9	184.9	209.0	251.9	278.7	278.7	241.2	332.3	345.7	434.2	420.8
82.5°	142.0	139.4	158.1	176.9	201.0	233.2	182.2	219.8	225.1	262.6	225.1
85°	93.8	93.8	104.5	120.6	134.0	128.6	142.0	128.6	134.0	163.5	123.3
87.5°	40.2	40.2	56.3	53.6	59.0	61.6	69.7	61.6	61.6	75.0	56.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P573457

CATALOG NUMBER: ARCH-S-PA2-80-727-U-T2U

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1147.0	1147.0	1147.0	1147.0	1147.0	1147.0	1147.0	1147.0	1147.0	1147.0	1147.0
2.5°	1144.3	1147.0	1152.4	1155.1	1163.1	1165.8	1165.8	1171.1	1171.1	1176.5	1176.5
5°	1152.4	1160.4	1168.5	1176.5	1184.5	1187.2	1192.6	1195.3	1195.3	1200.6	1197.9
7.5°	1168.5	1176.5	1192.6	1200.6	1211.3	1216.7	1214.0	1216.7	1214.0	1216.7	1216.7
10°	1189.9	1200.6	1219.4	1230.1	1238.1	1240.8	1232.8	1224.7	1214.0	1214.0	1214.0
12.5°	1214.0	1222.1	1246.2	1254.2	1259.6	1251.5	1230.1	1214.0	1206.0	1208.7	1206.0
15°	1238.1	1246.2	1264.9	1273.0	1273.0	1248.9	1230.1	1224.7	1222.1	1224.7	1224.7
17.5°	1262.3	1270.3	1286.4	1286.4	1278.3	1259.6	1240.8	1222.1	1208.7	1200.6	1200.6
20°	1294.4	1294.4	1299.8	1299.8	1297.1	1267.6	1222.1	1176.5	1149.7	1133.6	1130.9
22.5°	1337.3	1326.6	1315.9	1315.9	1326.6	1248.9	1160.4	1090.7	1047.9	1042.5	1031.8
25°	1382.9	1358.7	1331.9	1350.7	1331.9	1200.6	1074.7	980.9	929.9	911.2	916.5
27.5°	1431.1	1393.6	1353.4	1407.0	1305.1	1106.8	954.1	849.5	801.3	787.9	787.9
30°	1498.1	1441.8	1382.9	1465.9	1254.2	999.6	812.0	737.0	710.2	699.5	696.8
32.5°	1626.7	1541.0	1455.2	1519.5	1197.9	860.3	715.5	670.0	637.8	627.1	635.1
35°	1742.0	1621.4	1565.1	1543.7	1109.5	747.7	656.6	616.4	589.6	576.2	576.2
37.5°	1846.5	1731.2	1688.4	1543.7	994.3	678.0	619.1	586.9	552.1	541.3	541.3
40°	2074.3	1921.5	1846.5	1522.2	852.2	643.2	600.3	562.8	533.3	522.6	519.9
42.5°	2387.8	2181.5	2010.0	1474.0	731.6	627.1	589.6	546.7	522.6	514.6	511.9
45°	2720.1	2537.9	2165.4	1388.2	653.9	611.0	586.9	541.3	511.9	503.8	501.2
47.5°	3122.1	2934.5	2345.0	1256.9	600.3	600.3	584.2	533.3	506.5	498.5	498.5
50°	3567.0	3411.6	2572.8	1106.8	560.1	592.3	578.9	533.3	503.8	495.8	493.1
52.5°	4022.6	3950.2	2811.3	959.4	519.9	581.5	576.2	533.3	498.5	490.4	490.4
55°	4601.5	4542.5	3087.3	849.5	487.8	560.1	576.2	528.0	490.4	485.1	485.1
57.5°	5169.6	5148.2	3301.7	753.1	463.6	533.3	568.1	519.9	482.4	479.7	479.7
60°	5654.7	5633.3	3392.8	632.5	439.5	506.5	552.1	506.5	469.0	471.7	471.7
62.5°	5954.8	5831.6	3325.8	522.6	415.4	482.4	533.3	490.4	455.6	463.6	461.0
65°	6008.4	5721.7	3065.9	436.8	388.6	455.6	511.9	471.7	436.8	455.6	452.9
67.5°	5614.5	5137.5	2578.1	380.6	361.8	426.1	487.8	444.9	415.4	442.2	434.2
70°	4762.3	4172.7	1908.1	337.7	335.0	391.3	455.6	412.7	385.9	399.3	388.6
72.5°	3545.6	3012.3	1235.5	305.5	305.5	351.1	410.0	372.5	345.7	348.4	337.7
75°	2211.0	1851.8	702.1	276.0	276.0	310.9	364.5	327.0	308.2	297.5	310.9
77.5°	1005.0	814.7	369.8	246.6	249.2	265.3	313.6	278.7	257.3	241.2	249.2
80°	372.5	332.3	241.2	211.7	217.1	219.8	251.9	222.4	203.7	193.0	187.6
82.5°	193.0	179.6	163.5	168.8	176.9	168.8	195.6	166.2	144.7	136.7	115.2
85°	96.5	93.8	99.2	112.6	123.3	104.5	117.9	107.2	88.4	64.3	64.3
87.5°	37.5	40.2	37.5	50.9	56.3	48.2	53.6	37.5	26.8	13.4	10.7
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)