

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: P573380

Luminaire Tested: **ARCH-S-PA2-70-727-U-T4W**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P573380
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2108-332-19)
Test Lab: INNOVATION CENTER
Issue Date: 10/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-S-PA2-70-727-U-T4W
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 725mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8923 lumens
Efficiency: N/A
Efficacy: 121.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

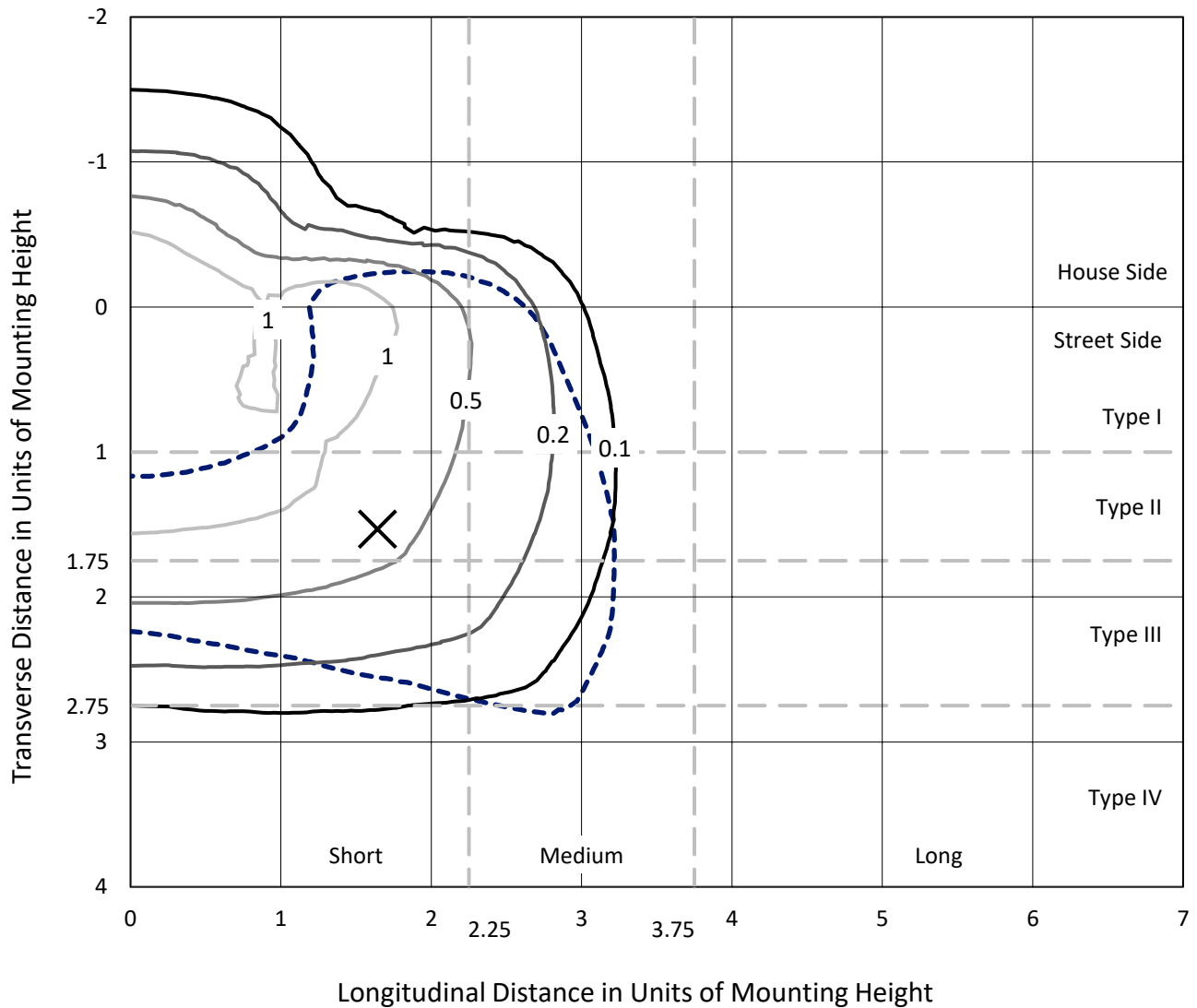
Input Watts (W): 73.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P573380
 CATALOG NUMBER: ARCH-S-PA2-70-727-U-T4W

Iso-Footcandle Lines of Horizontal Illumination

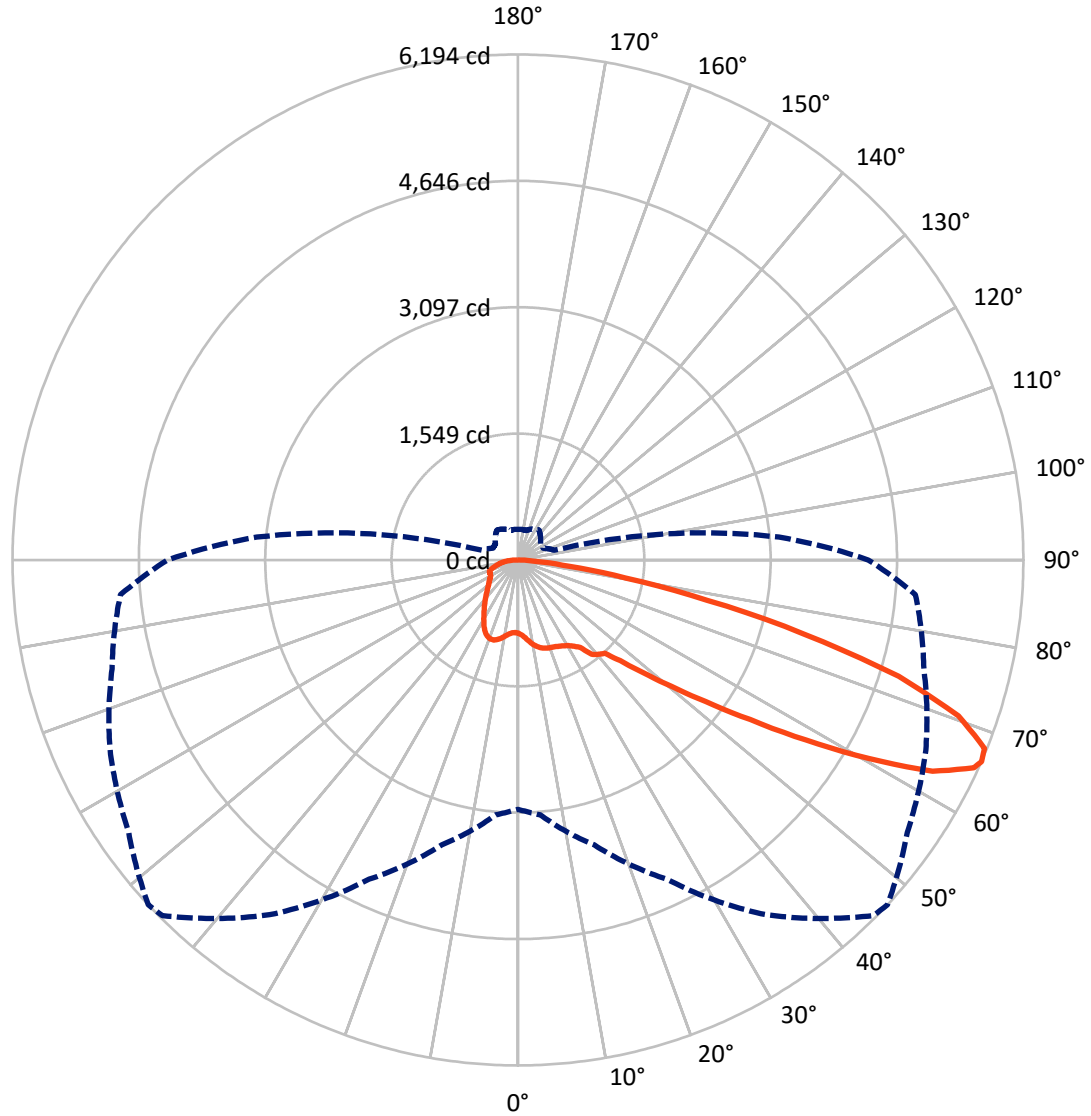
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 fc
 Type III - Short - N/A

REPORT NUMBER: P573380
CATALOG NUMBER: ARCH-S-PA2-70-727-U-T4W

Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

REPORT NUMBER: P573380
 CATALOG NUMBER: ARCH-S-PA2-70-727-U-T4W

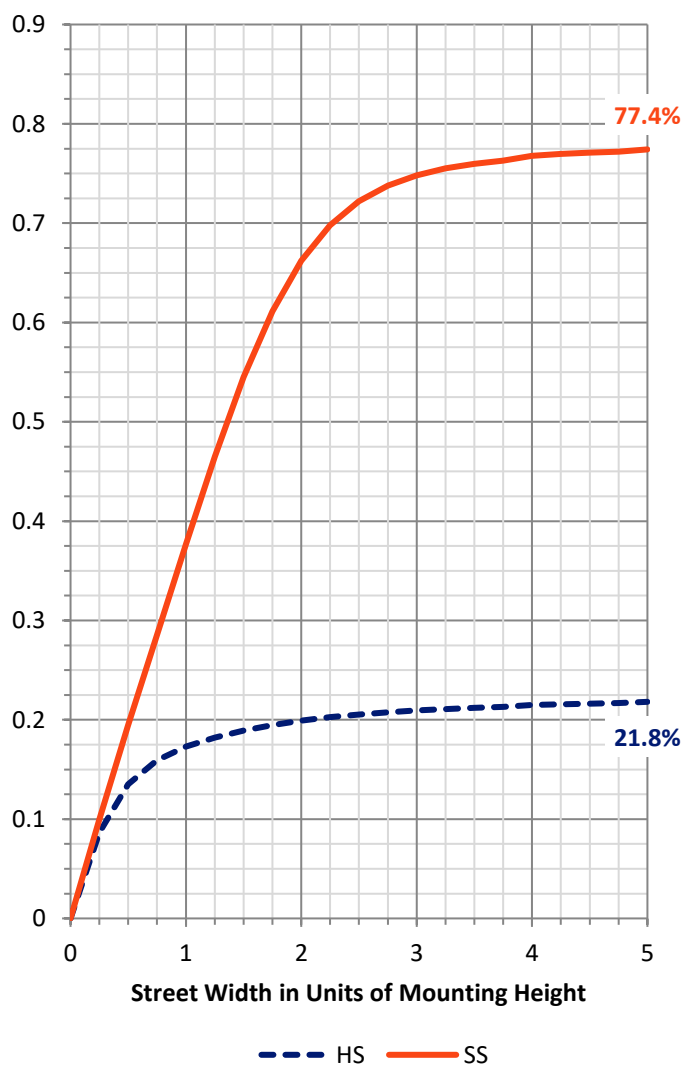
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1983.9	0.0	1983.9
	% Fixture	22.2	0.0	22.2
Street Side	Lumens	6939.1	0.0	6939.1
	% Fixture	77.8	0.0	77.8
Total	Lumens	8923.0	0.0	8923.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.3	1.0
10°-20°	299.5	3.4
20°-30°	499.5	5.6
30°-40°	725.4	8.1
40°-50°	1109.3	12.4
50°-60°	2096.9	23.5
60°-70°	2709.5	30.4
70°-80°	1217.9	13.6
80°-90°	173.7	1.9
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°	8923.0	100.0
0°-180°	8923.0	100.0

Coefficient of Utilization



REPORT NUMBER: P573380

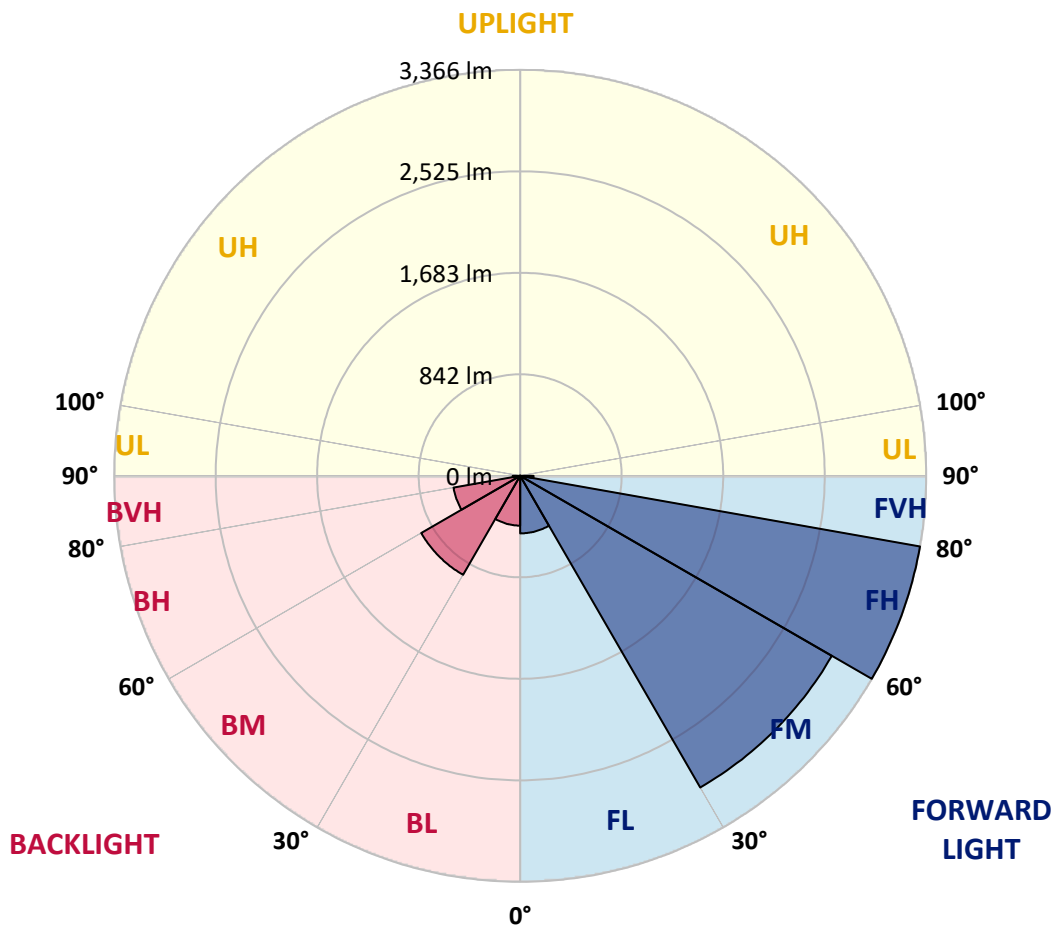
CATALOG NUMBER: ARCH-S-PA2-70-727-U-T4W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	477.4	5.4			
FM (30°-60°)	2984.0	33.4			
FH (60°-80°)	3366.1	37.7			G2/5000
FVH (80°-90°)	111.6	1.3			G2/225
BL (0°-30°)	412.9	4.6	B1/500		
BM (30°-60°)	947.6	10.6	B1/1000		
BH (60°-80°)	561.3	6.3	B2/1000		G2/1000
BVH (80°-90°)	62.1	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





REPORT NUMBER: P573380

CATALOG NUMBER: ARCH-S-PA2-70-727-U-T4W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	897.0	897.0	897.0	897.0	897.0	897.0	897.0	897.0	897.0	897.0	897.0
2.5°	947.9	940.7	935.8	933.4	928.6	918.9	918.9	916.4	906.7	901.9	899.5
5°	1023.1	1018.3	1006.1	996.4	981.9	962.5	960.1	945.5	926.1	911.6	901.9
7.5°	1095.8	1091.0	1078.9	1064.3	1040.1	1015.8	1008.6	989.2	957.6	935.8	918.9
10°	1158.9	1151.6	1137.0	1117.7	1091.0	1064.3	1057.0	1035.2	1003.7	972.2	943.1
12.5°	1200.1	1195.2	1178.3	1154.0	1124.9	1098.3	1093.4	1074.0	1042.5	1008.6	972.2
15°	1219.5	1217.1	1197.7	1173.4	1144.3	1122.5	1120.1	1103.1	1076.4	1042.5	1001.3
17.5°	1214.6	1212.2	1195.2	1171.0	1149.2	1137.0	1137.0	1124.9	1103.1	1074.0	1030.4
20°	1190.4	1190.4	1175.8	1158.9	1146.7	1144.3	1144.3	1141.9	1127.4	1103.1	1059.5
22.5°	1166.1	1166.1	1156.4	1144.3	1141.9	1151.6	1154.0	1158.9	1154.0	1134.6	1095.8
25°	1171.0	1168.6	1156.4	1141.9	1144.3	1166.1	1171.0	1183.1	1180.7	1166.1	1132.2
27.5°	1224.3	1221.9	1190.4	1161.3	1158.9	1185.5	1190.4	1207.4	1207.4	1195.2	1173.4
30°	1357.7	1362.5	1304.3	1231.6	1195.2	1212.2	1217.1	1236.5	1246.1	1251.0	1234.0
32.5°	1561.3	1554.0	1466.8	1348.0	1268.0	1251.0	1258.3	1275.2	1309.2	1318.9	1277.7
35°	1767.4	1772.2	1687.4	1537.1	1384.3	1321.3	1316.5	1340.7	1391.6	1348.0	1275.2
37.5°	1958.9	1951.7	1852.3	1689.8	1537.1	1464.3	1466.8	1457.1	1413.4	1326.2	1292.2
40°	2167.4	2148.0	2065.6	1857.1	1663.1	1541.9	1520.1	1437.7	1401.3	1364.9	1360.1
42.5°	2373.5	2375.9	2308.0	2102.0	1813.5	1597.7	1563.7	1478.9	1503.1	1495.9	1491.0
45°	2632.9	2632.9	2565.0	2373.5	2051.1	1806.2	1760.1	1658.3	1697.1	1726.2	1784.4
47.5°	2870.5	2856.0	2836.6	2674.1	2361.4	2077.7	2058.3	1942.0	2043.8	2133.5	2252.3
50°	3122.6	3103.2	3091.1	2991.7	2768.7	2489.9	2431.7	2310.5	2533.5	2700.8	2921.4
52.5°	3515.4	3481.5	3418.4	3362.7	3275.4	2952.9	2880.2	2790.5	3079.0	3289.9	3740.9
55°	3869.4	3840.3	3779.7	3820.9	3808.8	3515.4	3452.4	3367.5	3680.3	3937.2	4453.6
57.5°	4000.3	4002.7	4085.1	4305.8	4422.1	4252.4	4162.7	4077.9	4342.1	4460.9	4926.4
60°	4060.9	4053.6	4267.0	4625.8	5004.0	5054.9	4941.0	4766.4	4865.8	4873.1	5326.4
62.5°	3930.0	3949.4	4242.7	4759.1	5353.1	5719.2	5702.2	5396.7	5304.6	5202.8	5433.1
65°	3433.0	3459.6	3891.2	4521.5	5408.9	6121.6	6138.6	5782.2	5525.2	5241.6	5130.1
66°	3054.8	3134.8	3614.8	4315.5	5307.0	6162.9	6194.4	5823.4	5515.5	5149.5	4890.0
67.5°	2562.6	2557.8	3093.6	3862.1	5023.4	6126.5	6167.7	5765.3	5384.6	4877.9	4410.0
70°	1568.6	1617.1	2077.7	2882.6	4157.9	5673.1	5728.9	5355.5	4819.7	4131.2	3260.8
72.5°	804.9	884.9	1188.0	1874.1	3018.4	4688.8	4877.9	4497.3	3939.7	2989.3	1990.4
75°	426.7	421.8	560.0	1015.8	1927.4	3517.8	3617.2	3372.4	2722.6	1781.9	1013.4
77.5°	227.9	240.0	293.4	521.2	1059.5	2247.4	2373.5	2174.7	1551.6	911.6	484.9
80°	155.2	162.4	198.8	293.4	574.6	1219.5	1335.9	1158.9	812.2	431.5	227.9
82.5°	99.4	104.2	135.8	181.8	344.3	591.6	623.1	594.0	397.6	244.9	138.2
85°	60.6	63.0	82.4	116.4	215.8	240.0	249.7	252.1	223.0	160.0	75.2
87.5°	29.1	31.5	46.1	58.2	101.8	87.3	80.0	82.4	123.6	94.6	33.9
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: P573380

CATALOG NUMBER: ARCH-S-PA2-70-727-U-T4W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	897.0	897.0	897.0	897.0	897.0	897.0	897.0	897.0	897.0	897.0	897.0
2.5°	897.0	894.6	889.8	887.3	889.8	889.8	889.8	892.2	897.0	897.0	899.5
5°	897.0	892.2	887.3	887.3	892.2	897.0	901.9	911.6	916.4	918.9	918.9
7.5°	909.2	904.3	899.5	899.5	906.7	916.4	926.1	938.2	950.4	960.1	960.1
10°	933.4	926.1	921.3	923.7	935.8	947.9	960.1	974.6	986.7	998.9	998.9
12.5°	960.1	952.8	945.5	950.4	967.3	981.9	994.0	1001.3	1013.4	1023.1	1023.1
15°	986.7	974.6	972.2	981.9	998.9	1008.6	1013.4	1013.4	1018.3	1028.0	1028.0
17.5°	1015.8	1003.7	1001.3	1011.0	1025.5	1025.5	1015.8	1008.6	1006.1	1013.4	1015.8
20°	1044.9	1032.8	1032.8	1040.1	1037.6	1020.7	1003.7	991.6	981.9	989.2	991.6
22.5°	1081.3	1069.2	1064.3	1054.6	1032.8	998.9	972.2	957.6	950.4	955.2	960.1
25°	1117.7	1108.0	1095.8	1061.9	1011.0	957.6	923.7	911.6	914.0	923.7	928.6
27.5°	1163.7	1158.9	1129.8	1057.0	972.2	899.5	865.5	863.1	872.8	887.3	894.6
30°	1219.5	1212.2	1161.3	1042.5	918.9	831.6	807.3	812.2	826.7	838.8	846.1
32.5°	1258.3	1253.4	1175.8	1008.6	853.4	771.0	751.6	751.6	758.8	775.8	783.1
35°	1270.4	1289.8	1185.5	957.6	775.8	717.6	698.2	686.1	686.1	700.7	705.5
37.5°	1311.6	1355.2	1190.4	889.8	712.8	669.1	644.9	623.1	615.8	613.4	613.4
40°	1406.2	1457.1	1188.0	802.5	652.2	620.6	591.6	567.3	547.9	521.2	523.7
42.5°	1571.0	1609.8	1180.7	710.4	598.8	577.0	547.9	518.8	487.3	458.2	455.8
45°	1888.6	1830.4	1161.3	630.3	550.3	538.2	511.6	477.6	438.8	412.2	412.2
47.5°	2390.5	2230.5	1149.2	555.2	506.7	504.3	480.0	443.7	404.9	385.5	383.1
50°	3079.0	2783.2	1168.6	501.9	467.9	475.2	455.8	421.8	390.3	373.4	370.9
52.5°	3869.4	3377.2	1190.4	467.9	438.8	453.4	443.7	412.2	380.6	366.1	363.7
55°	4480.3	3859.7	1158.9	436.4	409.7	431.5	431.5	402.5	375.8	361.2	361.2
57.5°	4909.4	4053.6	1049.8	407.3	385.5	412.2	419.4	397.6	373.4	368.5	368.5
60°	5093.7	4043.9	858.2	380.6	368.5	392.8	412.2	392.8	378.2	390.3	392.8
62.5°	4994.3	3833.0	666.7	361.2	356.4	387.9	419.4	412.2	395.2	404.9	409.7
65°	4545.8	3462.1	501.9	344.3	341.8	390.3	438.8	424.3	383.1	385.5	387.9
66°	4293.6	3212.3	460.6	339.4	337.0	392.8	448.5	419.4	373.4	378.2	375.8
67.5°	3755.4	2819.6	404.9	329.7	327.3	392.8	460.6	409.7	361.2	368.5	361.2
70°	2754.1	1995.3	346.7	317.6	312.7	385.5	458.2	390.3	334.6	329.7	317.6
72.5°	1597.7	1207.4	307.9	303.1	290.9	339.4	429.1	358.8	305.5	290.9	278.8
75°	785.5	613.4	274.0	286.1	254.6	298.2	387.9	332.1	281.2	261.8	254.6
77.5°	361.2	310.3	247.3	261.8	225.5	257.0	354.0	303.1	249.7	220.6	213.3
80°	196.4	194.0	208.5	218.2	189.1	225.5	312.7	264.3	210.9	179.4	169.7
82.5°	121.2	123.6	152.7	167.3	147.9	196.4	276.4	220.6	160.0	126.1	128.5
85°	63.0	70.3	101.8	111.5	97.0	145.5	208.5	147.9	89.7	65.5	65.5
87.5°	21.8	29.1	50.9	60.6	53.3	87.3	130.9	70.3	19.4	0.0	0.0
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)