

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: P573515

Luminaire Tested: **ARCH-S-PA2-80-827-U-T4W**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P573515
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-PA2-80-827-U-T4W
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 80 CRI, 2700K, 820mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8668 lumens
Efficiency: N/A
Efficacy: 104.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

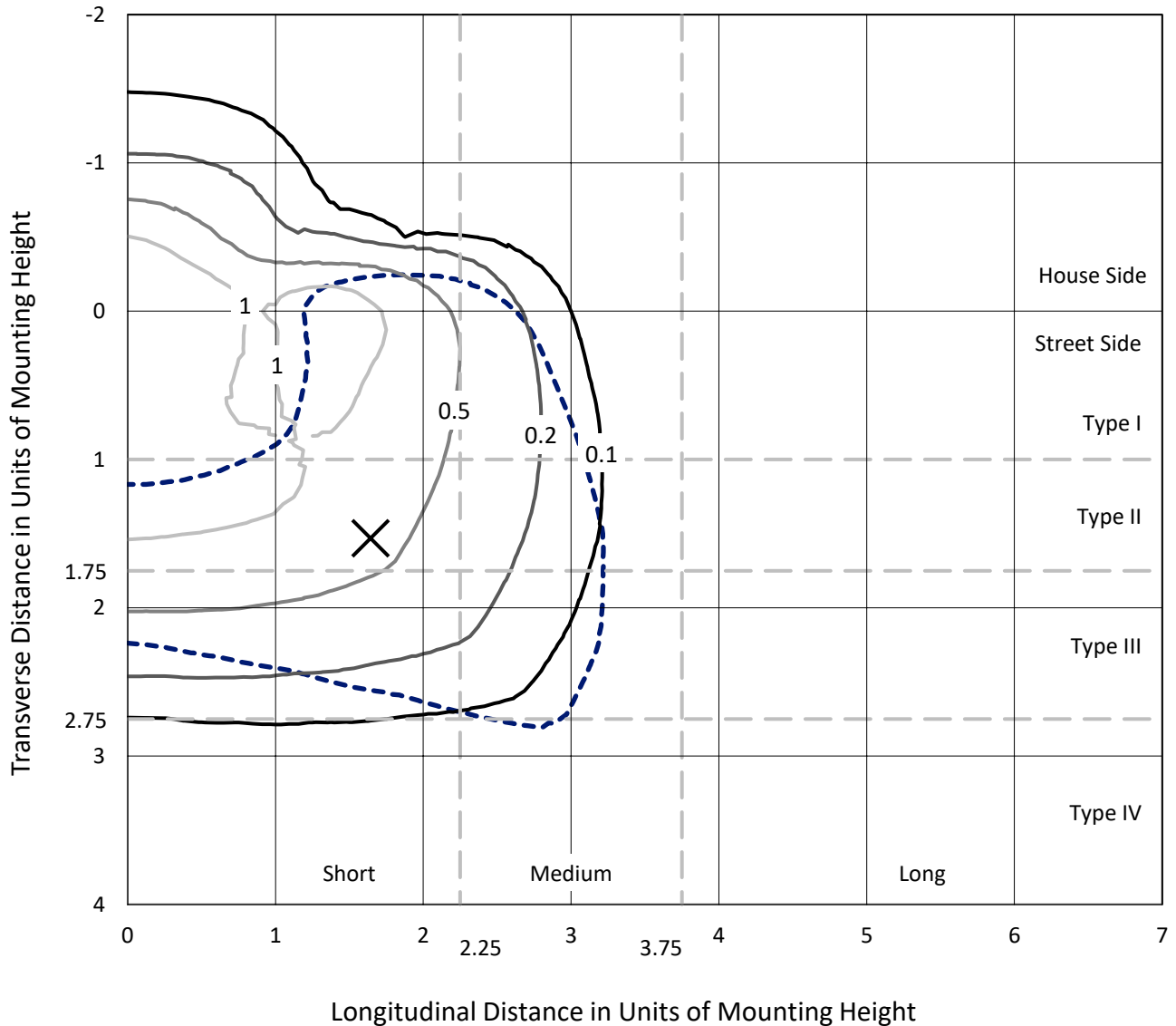
Input Watts (W): 83
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P573515
 CATALOG NUMBER: ARCH-S-PA2-80-827-U-T4W

Iso-Footcandle Lines of Horizontal Illumination

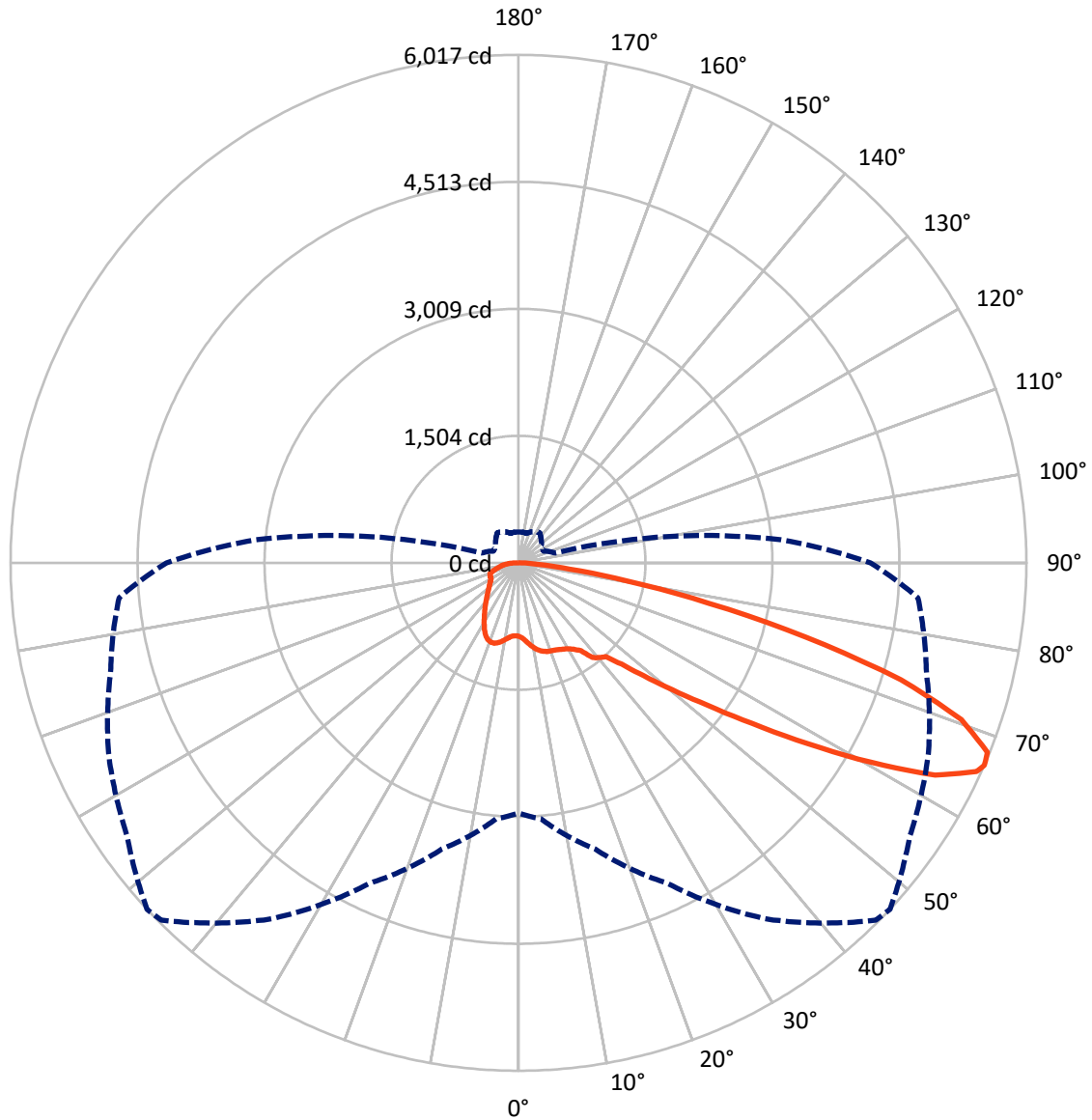
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 fc
 Type III - Short - N/A

REPORT NUMBER: P573515
CATALOG NUMBER: ARCH-S-PA2-80-827-U-T4W

Luminous Intensity Polar Plot



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

REPORT NUMBER: P573515
 CATALOG NUMBER: ARCH-S-PA2-80-827-U-T4W

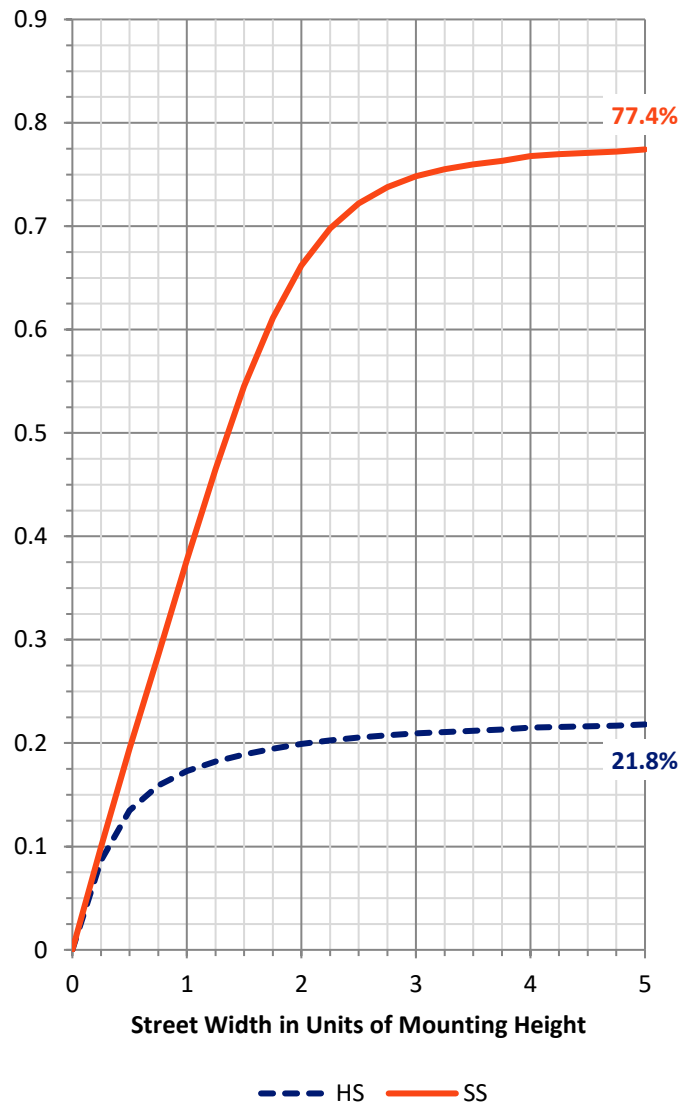
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1927.2	0.0	1927.2
	% Fixture	22.2	0.0	22.2
Street Side	Lumens	6740.8	0.0	6740.8
	% Fixture	77.8	0.0	77.8
Total	Lumens	8668.0	0.0	8668.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.7	1.0
10°-20°	290.9	3.4
20°-30°	485.2	5.6
30°-40°	704.6	8.1
40°-50°	1077.6	12.4
50°-60°	2037.0	23.5
60°-70°	2632.1	30.4
70°-80°	1183.1	13.6
80°-90°	168.8	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°	8668.0	100.0
0°-180°	8668.0	100.0

Coefficient of Utilization

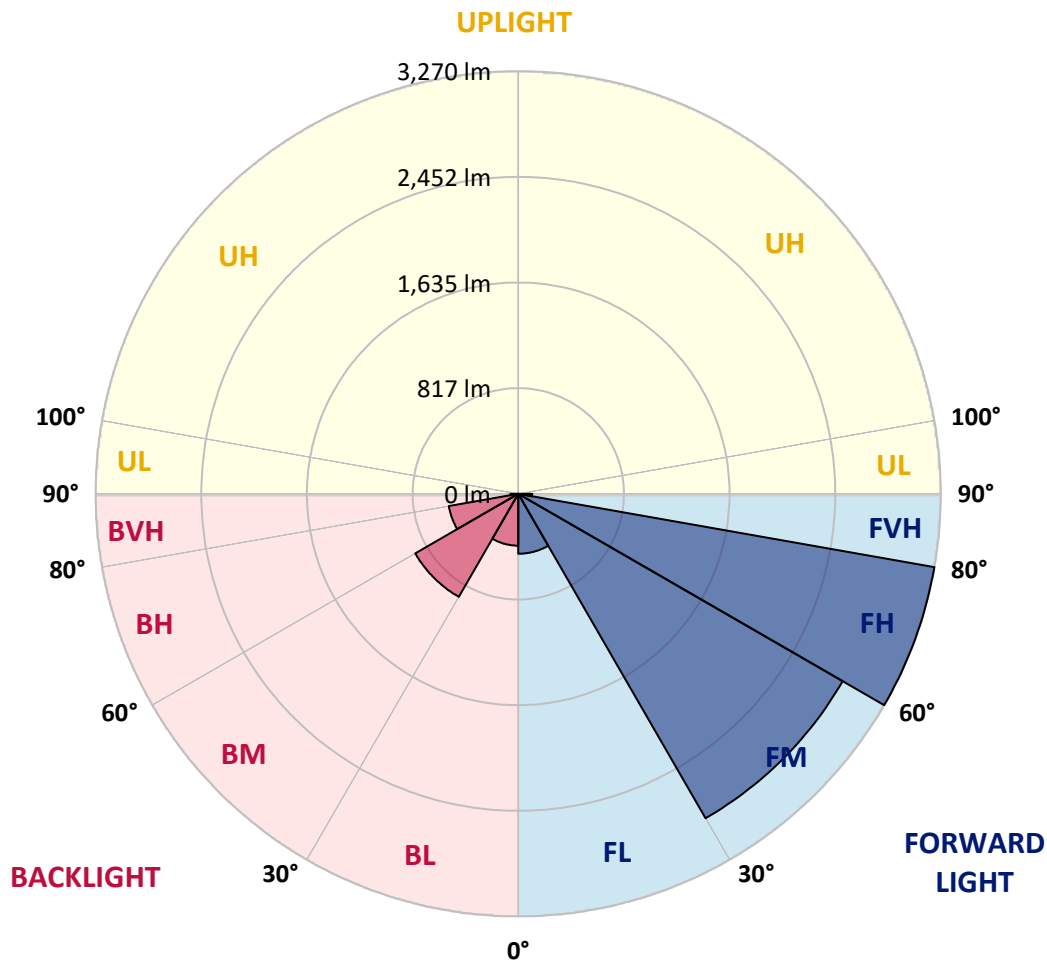


REPORT NUMBER: P573515
 CATALOG NUMBER: ARCH-S-PA2-80-827-U-T4W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	463.8	5.4			
FM (30°-60°)	2898.7	33.4			
FH (60°-80°)	3269.9	37.7			G2/5000
FVH (80°-90°)	108.4	1.3			G2/225
BL (0°-30°)	401.1	4.6	B1/500		
BM (30°-60°)	920.5	10.6	B1/1000		
BH (60°-80°)	545.3	6.3	B2/1000		G2/1000
BVH (80°-90°)	60.3	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: P573515

CATALOG NUMBER: ARCH-S-PA2-80-827-U-T4W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	871.4	871.4	871.4	871.4	871.4	871.4	871.4	871.4	871.4	871.4	871.4
2.5°	920.9	913.8	909.1	906.7	902.0	892.6	892.6	890.2	880.8	876.1	873.8
5°	993.9	989.2	977.4	968.0	953.8	935.0	932.6	918.5	899.7	885.5	876.1
7.5°	1064.5	1059.8	1048.0	1033.9	1010.4	986.8	979.7	960.9	930.3	909.1	892.6
10°	1125.8	1118.7	1104.6	1085.7	1059.8	1033.9	1026.8	1005.6	975.0	944.4	916.1
12.5°	1165.8	1161.1	1144.6	1121.0	1092.8	1066.9	1062.2	1043.3	1012.7	979.7	944.4
15°	1184.6	1182.3	1163.4	1139.9	1111.6	1090.4	1088.1	1071.6	1045.7	1012.7	972.7
17.5°	1179.9	1177.6	1161.1	1137.5	1116.3	1104.6	1104.6	1092.8	1071.6	1043.3	1000.9
20°	1156.4	1156.4	1142.2	1125.8	1114.0	1111.6	1111.6	1109.3	1095.1	1071.6	1029.2
22.5°	1132.8	1132.8	1123.4	1111.6	1109.3	1118.7	1121.0	1125.8	1121.0	1102.2	1064.5
25°	1137.5	1135.2	1123.4	1109.3	1111.6	1132.8	1137.5	1149.3	1146.9	1132.8	1099.8
27.5°	1189.3	1187.0	1156.4	1128.1	1125.8	1151.7	1156.4	1172.9	1172.9	1161.1	1139.9
30°	1318.9	1323.6	1267.1	1196.4	1161.1	1177.6	1182.3	1201.1	1210.5	1215.2	1198.8
32.5°	1516.7	1509.6	1424.9	1309.5	1231.7	1215.2	1222.3	1238.8	1271.8	1281.2	1241.2
35°	1716.9	1721.6	1639.2	1493.2	1344.8	1283.5	1278.8	1302.4	1351.8	1309.5	1238.8
37.5°	1902.9	1895.9	1799.3	1641.5	1493.2	1422.5	1424.9	1415.4	1373.0	1288.3	1255.3
40°	2105.5	2086.6	2006.6	1804.0	1615.6	1497.9	1476.7	1396.6	1361.3	1325.9	1321.2
42.5°	2305.7	2308.0	2242.1	2041.9	1761.6	1552.0	1519.1	1436.6	1460.2	1453.1	1448.4
45°	2557.7	2557.7	2491.7	2305.7	1992.4	1754.6	1709.8	1610.9	1648.6	1676.9	1733.4
47.5°	2788.5	2774.3	2755.5	2597.7	2293.9	2018.3	1999.5	1886.5	1985.4	2072.5	2187.9
50°	3033.4	3014.6	3002.8	2906.2	2689.6	2418.7	2362.2	2244.4	2461.1	2623.6	2837.9
52.5°	3414.9	3382.0	3320.7	3266.6	3181.8	2868.5	2797.9	2710.8	2991.0	3195.9	3634.0
55°	3758.8	3730.5	3671.6	3711.7	3699.9	3414.9	3353.7	3271.3	3575.1	3824.7	4326.4
57.5°	3886.0	3888.3	3968.4	4182.7	4295.8	4130.9	4043.8	3961.3	4218.0	4333.4	4785.6
60°	3944.8	3937.8	4145.0	4493.6	4861.0	4910.4	4799.8	4630.2	4726.7	4733.8	5174.2
62.5°	3817.7	3836.5	4121.5	4623.1	5200.1	5555.7	5539.3	5242.5	5153.0	5054.1	5277.8
65°	3334.9	3360.8	3780.0	4392.3	5254.3	5946.7	5963.2	5617.0	5367.3	5091.8	4983.5
66°	2967.5	3045.2	3511.5	4192.1	5155.4	5986.7	6017.4	5657.0	5357.9	5002.3	4750.3
67.5°	2489.4	2484.7	3005.1	3751.7	4879.8	5951.4	5991.4	5600.5	5230.7	4738.5	4284.0
70°	1523.8	1570.9	2018.3	2800.2	4039.0	5511.0	5565.2	5202.5	4682.0	4013.1	3167.6
72.5°	781.9	859.6	1154.0	1820.5	2932.1	4554.8	4738.5	4368.8	3827.1	2903.9	1933.6
75°	414.5	409.8	544.0	986.8	1872.3	3417.3	3513.9	3276.0	2644.8	1731.0	984.4
77.5°	221.4	233.2	285.0	506.4	1029.2	2183.2	2305.7	2112.6	1507.3	885.5	471.0
80°	150.7	157.8	193.1	285.0	558.2	1184.6	1297.7	1125.8	789.0	419.2	221.4
82.5°	96.6	101.3	131.9	176.6	334.4	574.7	605.3	577.0	386.2	237.9	134.2
85°	58.9	61.2	80.1	113.0	209.6	233.2	242.6	244.9	216.7	155.4	73.0
87.5°	28.3	30.6	44.7	56.5	98.9	84.8	77.7	80.1	120.1	91.9	33.0
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: P573515
 CATALOG NUMBER: ARCH-S-PA2-80-827-U-T4W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	871.4	871.4	871.4	871.4	871.4	871.4	871.4	871.4	871.4	871.4	871.4
2.5°	871.4	869.0	864.3	862.0	864.3	864.3	864.3	866.7	871.4	871.4	873.8
5°	871.4	866.7	862.0	862.0	866.7	871.4	876.1	885.5	890.2	892.6	892.6
7.5°	883.2	878.5	873.8	873.8	880.8	890.2	899.7	911.4	923.2	932.6	932.6
10°	906.7	899.7	894.9	897.3	909.1	920.9	932.6	946.8	958.5	970.3	970.3
12.5°	932.6	925.6	918.5	923.2	939.7	953.8	965.6	972.7	984.4	993.9	993.9
15°	958.5	946.8	944.4	953.8	970.3	979.7	984.4	984.4	989.2	998.6	998.6
17.5°	986.8	975.0	972.7	982.1	996.2	996.2	986.8	979.7	977.4	984.4	986.8
20°	1015.1	1003.3	1003.3	1010.4	1008.0	991.5	975.0	963.2	953.8	960.9	963.2
22.5°	1050.4	1038.6	1033.9	1024.5	1003.3	970.3	944.4	930.3	923.2	927.9	932.6
25°	1085.7	1076.3	1064.5	1031.5	982.1	930.3	897.3	885.5	887.9	897.3	902.0
27.5°	1130.5	1125.8	1097.5	1026.8	944.4	873.8	840.8	838.4	847.8	862.0	869.0
30°	1184.6	1177.6	1128.1	1012.7	892.6	807.8	784.3	789.0	803.1	814.9	821.9
32.5°	1222.3	1217.6	1142.2	979.7	829.0	748.9	730.1	730.1	737.2	753.6	760.7
35°	1234.1	1252.9	1151.7	930.3	753.6	697.1	678.3	666.5	666.5	680.6	685.3
37.5°	1274.1	1316.5	1156.4	864.3	692.4	650.0	626.5	605.3	598.2	595.8	595.8
40°	1366.0	1415.4	1154.0	779.5	633.5	602.9	574.7	551.1	532.3	506.4	508.7
42.5°	1526.1	1563.8	1146.9	690.1	581.7	560.5	532.3	504.0	473.4	445.1	442.8
45°	1834.6	1778.1	1128.1	612.3	534.6	522.8	496.9	464.0	426.3	400.4	400.4
47.5°	2322.2	2166.7	1116.3	539.3	492.2	489.9	466.3	431.0	393.3	374.5	372.1
50°	2991.0	2703.7	1135.2	487.5	454.5	461.6	442.8	409.8	379.2	362.7	360.3
52.5°	3758.8	3280.7	1156.4	454.5	426.3	440.4	431.0	400.4	369.8	355.6	353.3
55°	4352.3	3749.4	1125.8	423.9	398.0	419.2	419.2	391.0	365.0	350.9	350.9
57.5°	4769.1	3937.8	1019.8	395.7	374.5	400.4	407.4	386.2	362.7	358.0	358.0
60°	4948.1	3928.4	833.7	369.8	358.0	381.5	400.4	381.5	367.4	379.2	381.5
62.5°	4851.6	3723.5	647.7	350.9	346.2	376.8	407.4	400.4	383.9	393.3	398.0
65°	4415.9	3363.1	487.5	334.4	332.1	379.2	426.3	412.1	372.1	374.5	376.8
66°	4170.9	3120.5	447.5	329.7	327.4	381.5	435.7	407.4	362.7	367.4	365.0
67.5°	3648.1	2739.0	393.3	320.3	317.9	381.5	447.5	398.0	350.9	358.0	350.9
70°	2675.4	1938.3	336.8	308.5	303.8	374.5	445.1	379.2	325.0	320.3	308.5
72.5°	1552.0	1172.9	299.1	294.4	282.6	329.7	416.9	348.6	296.7	282.6	270.8
75°	763.1	595.8	266.1	277.9	247.3	289.7	376.8	322.7	273.2	254.4	247.3
77.5°	350.9	301.5	240.2	254.4	219.0	249.6	343.8	294.4	242.6	214.3	207.3
80°	190.8	188.4	202.5	212.0	183.7	219.0	303.8	256.7	204.9	174.3	164.9
82.5°	117.8	120.1	148.4	162.5	143.7	190.8	268.5	214.3	155.4	122.5	124.8
85°	61.2	68.3	98.9	108.3	94.2	141.3	202.5	143.7	87.1	63.6	63.6
87.5°	21.2	28.3	49.5	58.9	51.8	84.8	127.2	68.3	18.8	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)