

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: P573443

Luminaire Tested: **ARCH-S-PA2-70-830-U-T4W**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P573443
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-PA2-70-830-U-T4W
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 80 CRI, 3000K, 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: 8478 lumens
Efficiency: N/A
Efficacy: 115.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

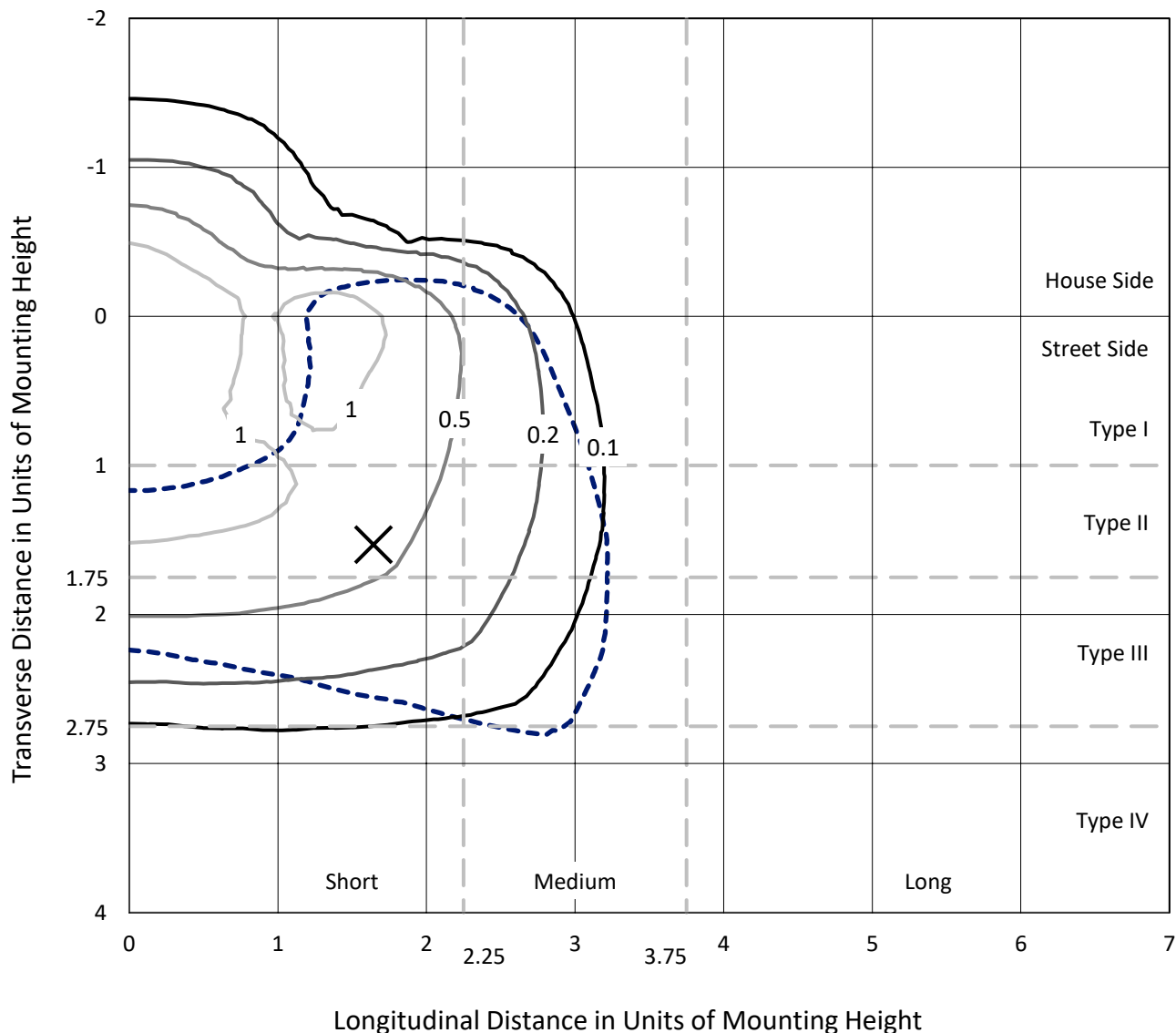
Input Watts (W): 73.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

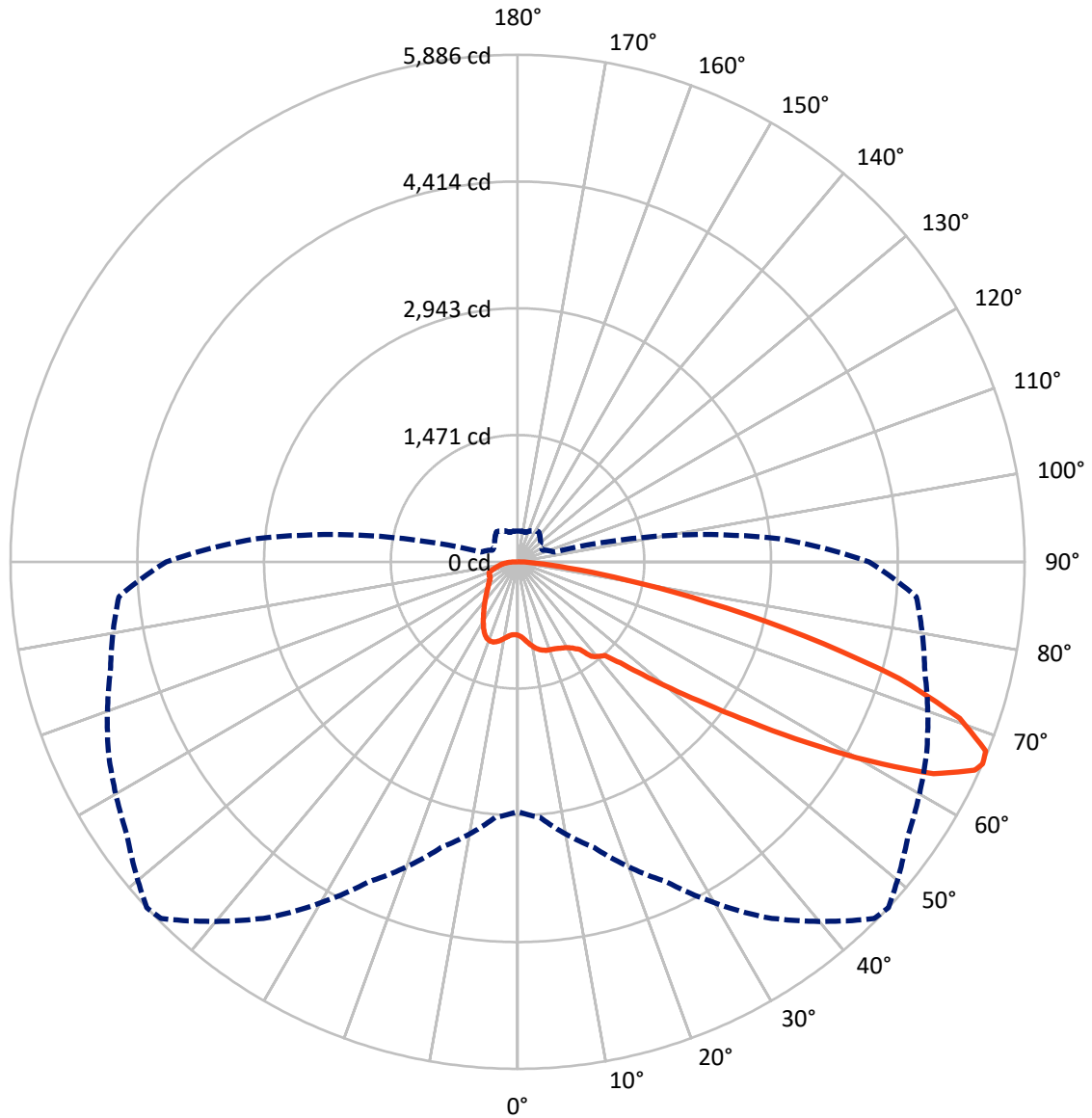
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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

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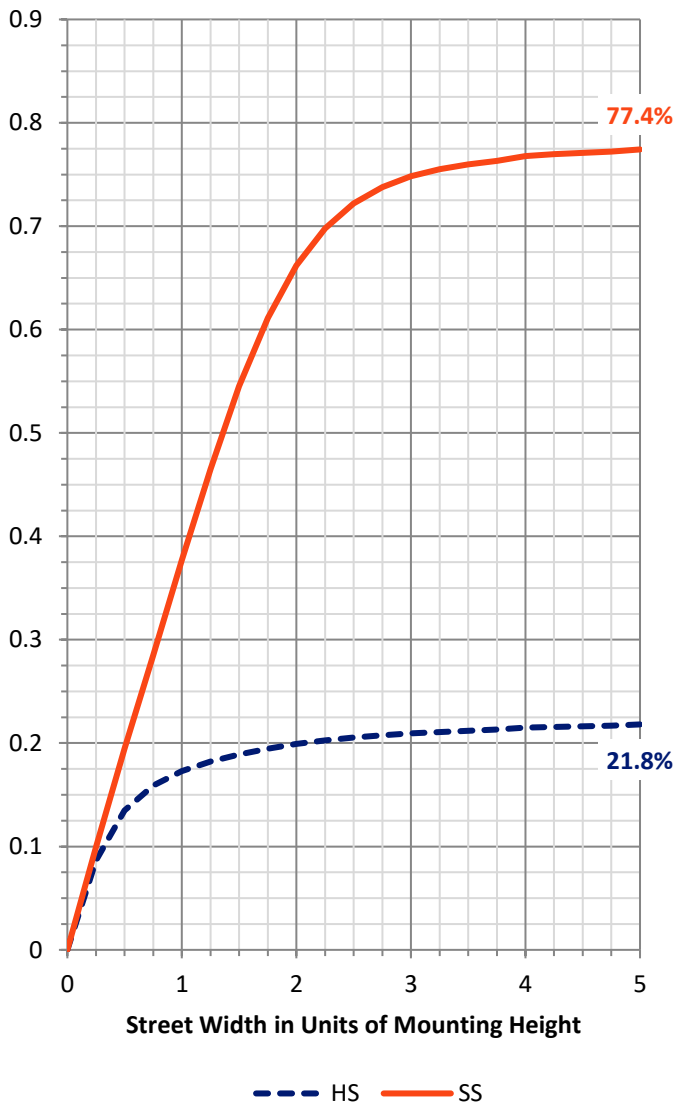
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1884.9	0.0	1884.9
	% Fixture	22.2	0.0	22.2
Street Side	Lumens	6593.1	0.0	6593.1
	% Fixture	77.8	0.0	77.8
Total	Lumens	8478.0	0.0	8478.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.7	1.0
10°-20°	284.6	3.4
20°-30°	474.6	5.6
30°-40°	689.2	8.1
40°-50°	1054.0	12.4
50°-60°	1992.3	23.5
60°-70°	2574.4	30.4
70°-80°	1157.2	13.6
80°-90°	165.0	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°	8478.0	100.0
0°-180°	8478.0	100.0

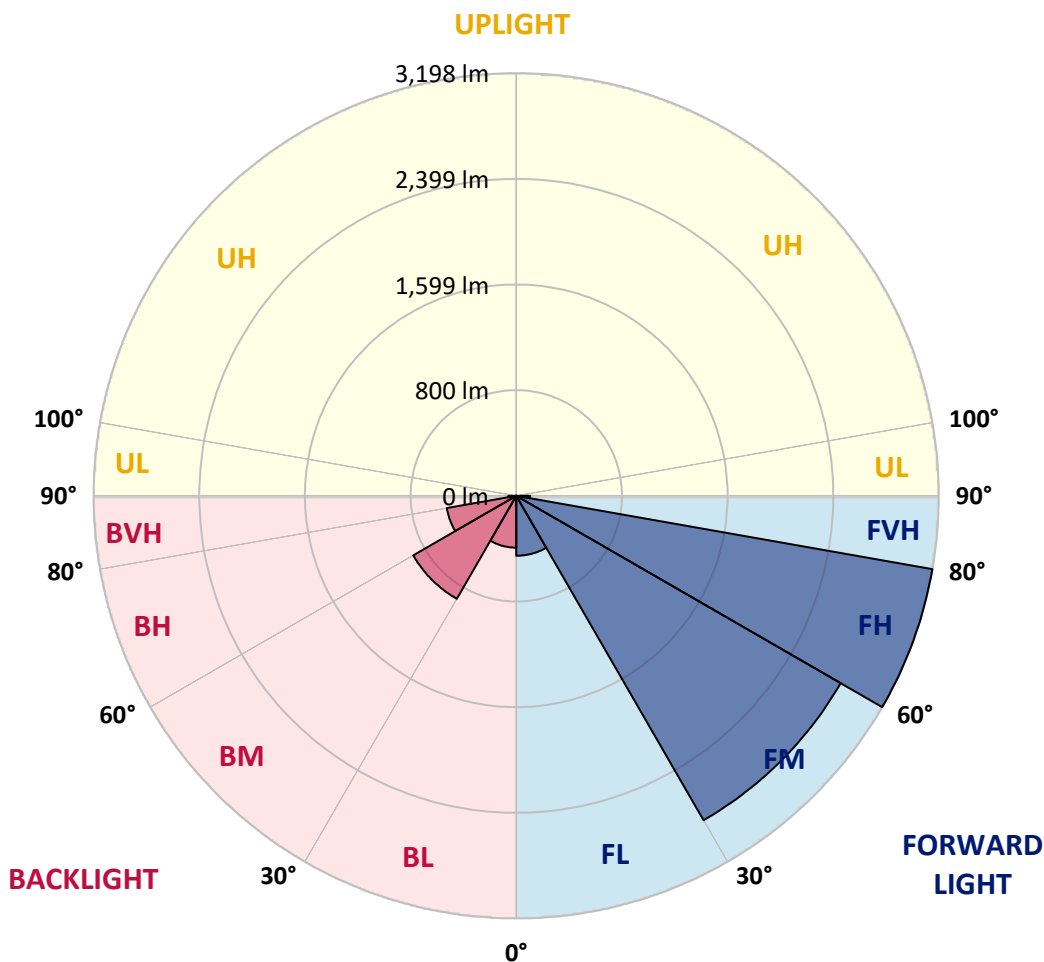


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	453.6	5.4			
FM (30°-60°)	2835.2	33.4			
FH (60°-80°)	3198.2	37.7			G2/5000
FVH (80°-90°)	106.1	1.3			G2/225
BL (0°-30°)	392.3	4.6	B1/500		
BM (30°-60°)	900.3	10.6	B1/1000		
BH (60°-80°)	533.3	6.3	B2/1000		G2/1000
BVH (80°-90°)	59.0	0.7			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	852.3	852.3	852.3	852.3	852.3	852.3	852.3	852.3	852.3	852.3	852.3
2.5°	900.7	893.8	889.2	886.8	882.2	873.0	873.0	870.7	861.5	856.9	854.6
5°	972.1	967.5	956.0	946.7	932.9	914.5	912.2	898.4	879.9	866.1	856.9
7.5°	1041.2	1036.6	1025.1	1011.2	988.2	965.2	958.3	939.8	909.9	889.2	873.0
10°	1101.1	1094.2	1080.3	1061.9	1036.6	1011.2	1004.3	983.6	953.7	923.7	896.1
12.5°	1140.2	1135.6	1119.5	1096.5	1068.8	1043.5	1038.9	1020.5	990.5	958.3	923.7
15°	1158.7	1156.4	1137.9	1114.9	1087.3	1066.5	1064.2	1048.1	1022.8	990.5	951.3
17.5°	1154.1	1151.8	1135.6	1112.6	1091.9	1080.3	1080.3	1068.8	1048.1	1020.5	979.0
20°	1131.0	1131.0	1117.2	1101.1	1089.6	1087.3	1087.3	1085.0	1071.1	1048.1	1006.6
22.5°	1108.0	1108.0	1098.8	1087.3	1085.0	1094.2	1096.5	1101.1	1096.5	1078.0	1041.2
25°	1112.6	1110.3	1098.8	1085.0	1087.3	1108.0	1112.6	1124.1	1121.8	1108.0	1075.7
27.5°	1163.3	1161.0	1131.0	1103.4	1101.1	1126.4	1131.0	1147.1	1147.1	1135.6	1114.9
30°	1290.0	1294.6	1239.3	1170.2	1135.6	1151.8	1156.4	1174.8	1184.0	1188.6	1172.5
32.5°	1483.5	1476.5	1393.6	1280.7	1204.7	1188.6	1195.5	1211.6	1243.9	1253.1	1213.9
35°	1679.3	1683.9	1603.2	1460.4	1315.3	1255.4	1250.8	1273.8	1322.2	1280.7	1211.6
37.5°	1861.2	1854.3	1759.9	1605.5	1460.4	1391.3	1393.6	1384.4	1342.9	1260.0	1227.8
40°	2059.3	2040.9	1962.6	1764.5	1580.2	1465.0	1444.3	1366.0	1331.4	1296.9	1292.3
42.5°	2255.1	2257.4	2192.9	1997.1	1723.0	1518.0	1485.8	1405.1	1428.2	1421.3	1416.7
45°	2501.6	2501.6	2437.1	2255.1	1948.8	1716.1	1672.3	1575.6	1612.5	1640.1	1695.4
47.5°	2727.3	2713.5	2695.1	2540.8	2243.6	1974.1	1955.7	1845.1	1941.9	2027.1	2140.0
50°	2966.9	2948.5	2937.0	2842.5	2630.6	2365.7	2310.4	2195.2	2407.2	2566.1	2775.7
52.5°	3340.1	3307.8	3247.9	3195.0	3112.0	2805.7	2736.6	2651.3	2925.5	3125.9	3554.3
55°	3676.4	3648.8	3591.2	3630.3	3618.8	3340.1	3280.2	3199.6	3496.7	3740.9	4231.5
57.5°	3800.8	3803.1	3881.4	4091.0	4201.6	4040.3	3955.1	3874.5	4125.6	4238.4	4680.7
60°	3858.4	3851.5	4054.2	4395.1	4754.4	4802.8	4694.5	4528.7	4623.1	4630.0	5060.8
62.5°	3734.0	3752.4	4031.1	4521.8	5086.1	5434.0	5417.8	5127.6	5040.1	4943.3	5162.2
65°	3261.8	3287.1	3697.1	4296.0	5139.1	5816.3	5832.5	5493.9	5249.7	4980.2	4874.2
66°	2902.4	2978.4	3434.5	4100.2	5042.4	5855.5	5885.5	5533.0	5240.5	4892.6	4646.2
67.5°	2434.8	2430.2	2939.3	3669.5	4772.9	5821.0	5860.1	5477.7	5116.1	4634.7	4190.1
70°	1490.4	1536.4	1974.1	2738.9	3950.5	5390.2	5443.2	5088.4	4579.4	3925.2	3098.2
72.5°	764.8	840.8	1128.7	1780.6	2867.9	4455.0	4634.7	4273.0	3743.2	2840.2	1891.2
75°	405.4	400.8	532.1	965.2	1831.3	3342.4	3436.8	3204.2	2586.8	1693.1	962.9
77.5°	216.5	228.0	278.7	495.3	1006.6	2135.3	2255.1	2066.2	1474.2	866.1	460.7
80°	147.4	154.3	188.9	278.7	545.9	1158.7	1269.2	1101.1	771.7	410.0	216.5
82.5°	94.4	99.1	129.0	172.8	327.1	562.1	592.0	564.4	377.8	232.7	131.3
85°	57.6	59.9	78.3	110.6	205.0	228.0	237.3	239.6	211.9	152.0	71.4
87.5°	27.6	29.9	43.8	55.3	96.7	82.9	76.0	78.3	117.5	89.8	32.2
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°	852.3	852.3	852.3	852.3	852.3	852.3	852.3	852.3	852.3	852.3	852.3
2.5°	852.3	850.0	845.4	843.1	845.4	845.4	845.4	847.7	852.3	852.3	854.6
5°	852.3	847.7	843.1	843.1	847.7	852.3	856.9	866.1	870.7	873.0	873.0
7.5°	863.8	859.2	854.6	854.6	861.5	870.7	879.9	891.5	903.0	912.2	912.2
10°	886.8	879.9	875.3	877.6	889.2	900.7	912.2	926.0	937.5	949.0	949.0
12.5°	912.2	905.3	898.4	903.0	919.1	932.9	944.4	951.3	962.9	972.1	972.1
15°	937.5	926.0	923.7	932.9	949.0	958.3	962.9	962.9	967.5	976.7	976.7
17.5°	965.2	953.7	951.3	960.6	974.4	974.4	965.2	958.3	956.0	962.9	965.2
20°	992.8	981.3	981.3	988.2	985.9	969.8	953.7	942.1	932.9	939.8	942.1
22.5°	1027.4	1015.8	1011.2	1002.0	981.3	949.0	923.7	909.9	903.0	907.6	912.2
25°	1061.9	1052.7	1041.2	1008.9	960.6	909.9	877.6	866.1	868.4	877.6	882.2
27.5°	1105.7	1101.1	1073.4	1004.3	923.7	854.6	822.4	820.0	829.3	843.1	850.0
30°	1158.7	1151.8	1103.4	990.5	873.0	790.1	767.1	771.7	785.5	797.0	803.9
32.5°	1195.5	1190.9	1117.2	958.3	810.8	732.5	714.1	714.1	721.0	737.1	744.0
35°	1207.0	1225.5	1126.4	909.9	737.1	681.8	663.4	651.9	651.9	665.7	670.3
37.5°	1246.2	1287.7	1131.0	845.4	677.2	635.8	612.7	592.0	585.1	582.8	582.8
40°	1336.0	1384.4	1128.7	762.5	619.6	589.7	562.1	539.0	520.6	495.3	497.6
42.5°	1492.7	1529.5	1121.8	674.9	569.0	548.2	520.6	493.0	463.0	435.4	433.1
45°	1794.4	1739.1	1103.4	598.9	522.9	511.4	486.0	453.8	416.9	391.6	391.6
47.5°	2271.3	2119.2	1091.9	527.5	481.4	479.1	456.1	421.5	384.7	366.3	364.0
50°	2925.5	2644.4	1110.3	476.8	444.6	451.5	433.1	400.8	370.9	354.7	352.4
52.5°	3676.4	3208.8	1131.0	444.6	416.9	430.8	421.5	391.6	361.7	347.8	345.5
55°	4256.9	3667.2	1101.1	414.6	389.3	410.0	410.0	382.4	357.0	343.2	343.2
57.5°	4664.6	3851.5	997.4	387.0	366.3	391.6	398.5	377.8	354.7	350.1	350.1
60°	4839.7	3842.2	815.4	361.7	350.1	373.2	391.6	373.2	359.3	370.9	373.2
62.5°	4745.2	3641.8	633.5	343.2	338.6	368.6	398.5	391.6	375.5	384.7	389.3
65°	4319.1	3289.4	476.8	327.1	324.8	370.9	416.9	403.1	364.0	366.3	368.6
66°	4079.5	3052.1	437.7	322.5	320.2	373.2	426.1	398.5	354.7	359.3	357.0
67.5°	3568.1	2679.0	384.7	313.3	311.0	373.2	437.7	389.3	343.2	350.1	343.2
70°	2616.8	1895.8	329.4	301.8	297.2	366.3	435.4	370.9	317.9	313.3	301.8
72.5°	1518.0	1147.1	292.5	287.9	276.4	322.5	407.7	340.9	290.2	276.4	264.9
75°	746.3	582.8	260.3	271.8	241.9	283.3	368.6	315.6	267.2	248.8	241.9
77.5°	343.2	294.8	235.0	248.8	214.2	244.2	336.3	287.9	237.3	209.6	202.7
80°	186.6	184.3	198.1	207.3	179.7	214.2	297.2	251.1	200.4	170.5	161.2
82.5°	115.2	117.5	145.1	158.9	140.5	186.6	262.6	209.6	152.0	119.8	122.1
85°	59.9	66.8	96.7	106.0	92.1	138.2	198.1	140.5	85.2	62.2	62.2
87.5°	20.7	27.6	48.4	57.6	50.7	82.9	124.4	66.8	18.4	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)