

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: P572870

Luminaire Tested: **ARCH-S-PA2-120-830-U-T2R**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P572870
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2108-332-13)
Test Lab: INNOVATION CENTER
Issue Date: 10/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-S-PA2-120-830-U-T2R
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12466 lumens
Efficiency: N/A
Efficacy: 101.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

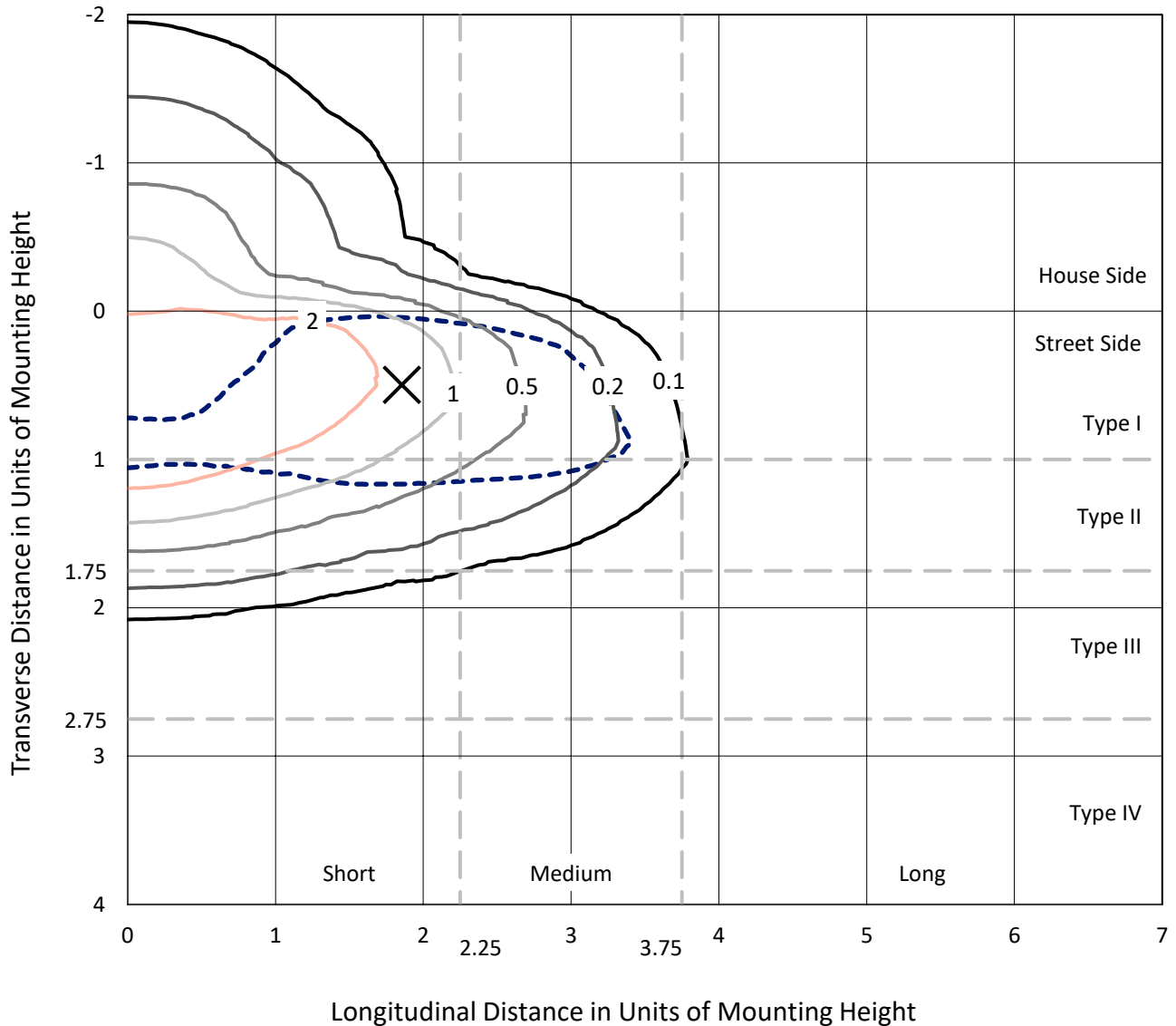
Input Watts (W): 122.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P572870
 CATALOG NUMBER: ARCH-S-PA2-120-830-U-T2R

Iso-Footcandle Lines of Horizontal Illumination

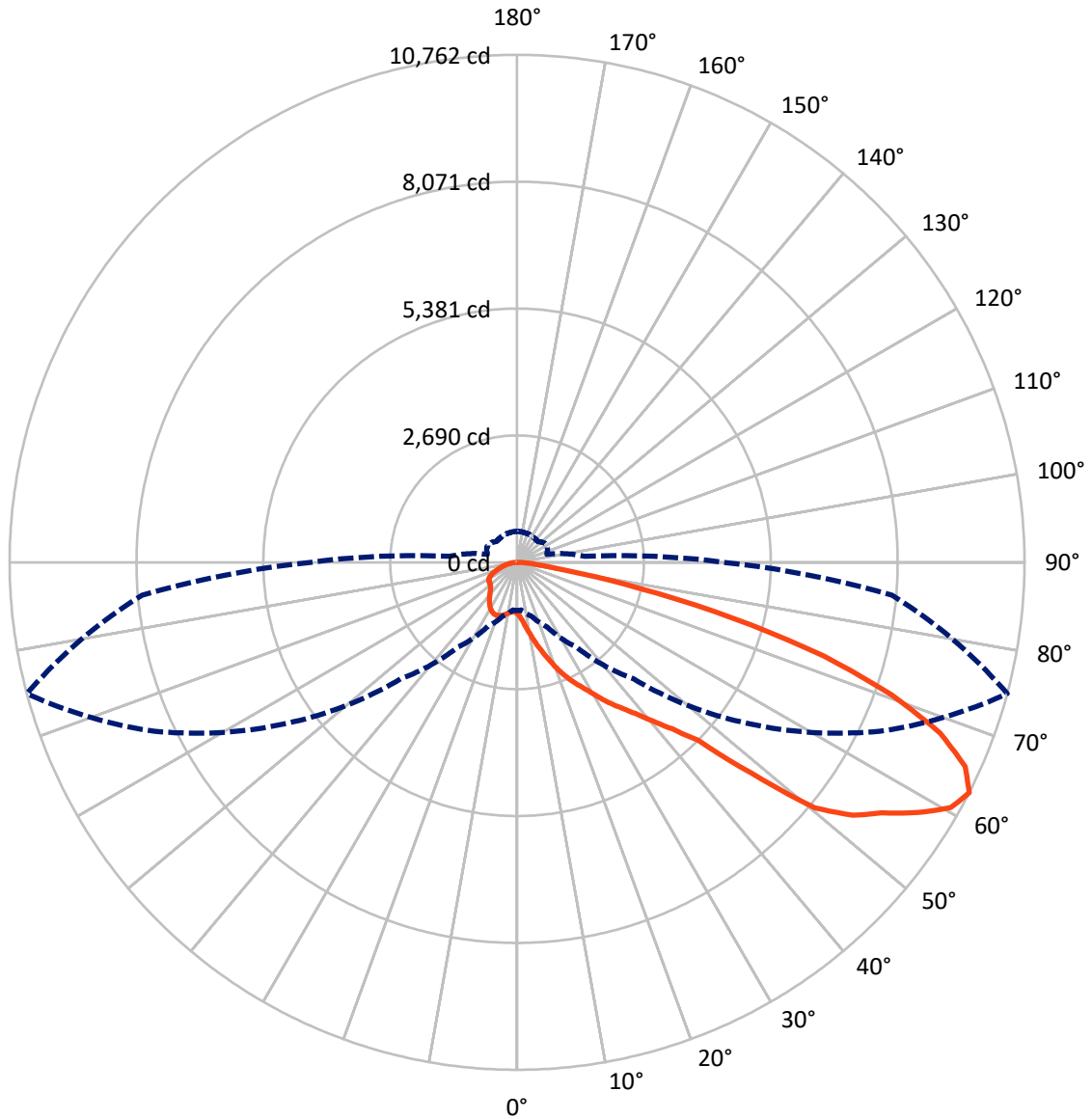
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 fc
 Type II - Short - N/A

REPORT NUMBER: P572870
CATALOG NUMBER: ARCH-S-PA2-120-830-U-T2R

Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

REPORT NUMBER: P572870
 CATALOG NUMBER: ARCH-S-PA2-120-830-U-T2R

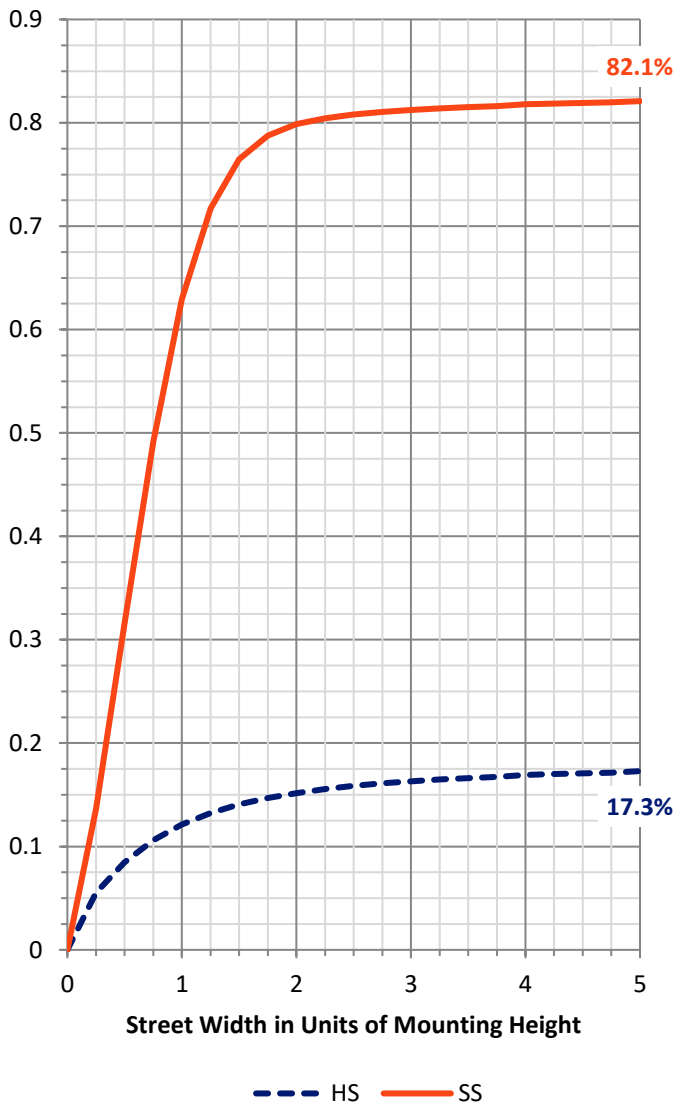
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2198.6	0.0	2198.6
	% Fixture	17.6	0.0	17.6
Street Side	Lumens	10267.3	0.0	10267.3
	% Fixture	82.4	0.0	82.4
Total	Lumens	12466.0	0.0	12466.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.5	1.0
10°-20°	515.8	4.1
20°-30°	1020.5	8.2
30°-40°	1701.1	13.6
40°-50°	2510.1	20.1
50°-60°	3017.4	24.2
60°-70°	2345.1	18.8
70°-80°	1037.5	8.3
80°-90°	187.8	1.5
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°	12466.0	100.0
0°-180°	12466.0	100.0

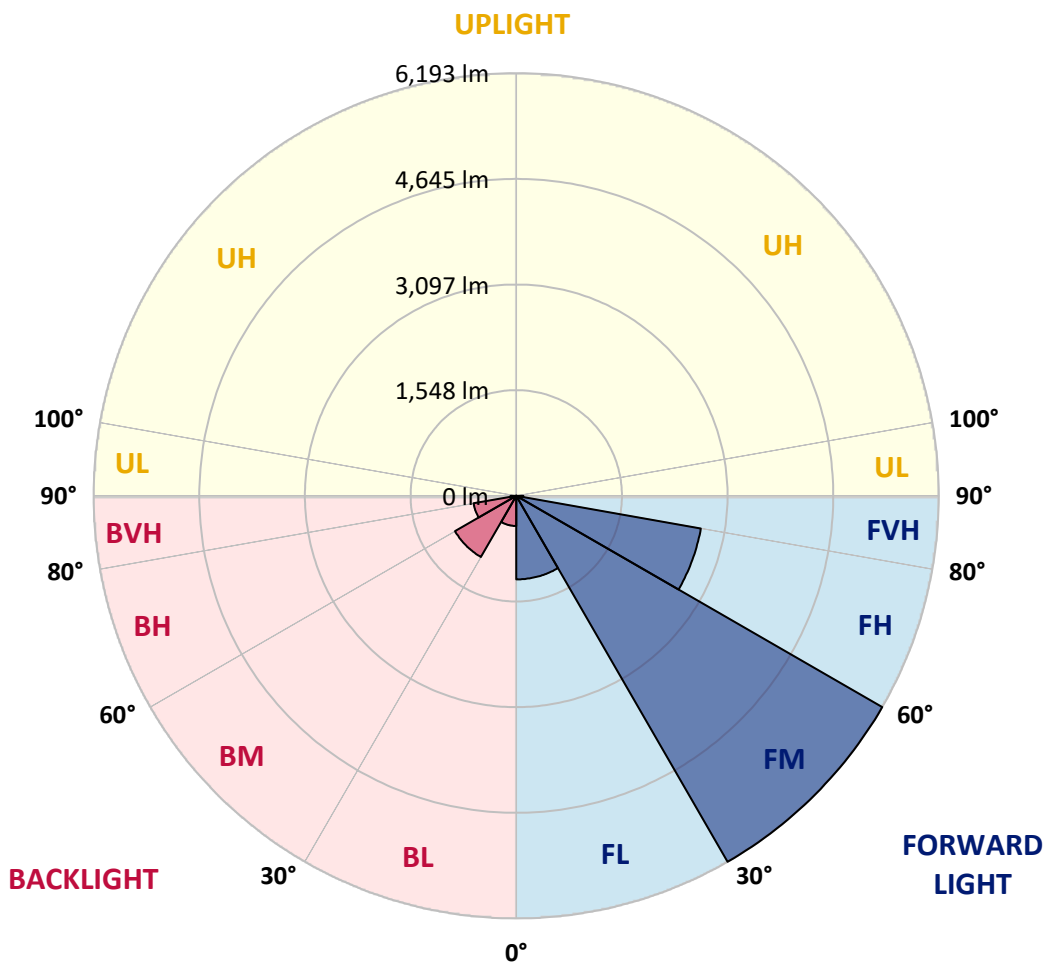


REPORT NUMBER: P572870
 CATALOG NUMBER: ARCH-S-PA2-120-830-U-T2R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1224.5	9.8			
FM (30°-60°)	6193.1	49.7			
FH (60°-80°)	2746.5	22.0			G2/5000
FVH (80°-90°)	103.2	0.8			G2/225
BL (0°-30°)	442.4	3.5	B1/500		
BM (30°-60°)	1035.5	8.3	B2/2500		
BH (60°-80°)	636.1	5.1	B2/1000		G2/1000
BVH (80°-90°)	84.6	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 II Short





REPORT NUMBER: P572870

CATALOG NUMBER: ARCH-S-PA2-120-830-U-T2R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1086.6	1086.6	1086.6	1086.6	1086.6	1086.6	1086.6	1086.6	1086.6	1086.6	1086.6
2.5°	1389.4	1349.0	1349.0	1305.3	1308.7	1271.6	1231.3	1190.9	1147.2	1113.5	1096.7
5°	1816.6	1786.4	1776.3	1725.8	1645.1	1554.2	1456.7	1355.8	1251.5	1170.7	1130.4
7.5°	2217.0	2193.4	2180.0	2122.8	2011.8	1914.2	1759.5	1574.4	1396.1	1244.7	1184.2
10°	2513.0	2496.2	2469.3	2442.4	2361.6	2277.5	2085.8	1823.4	1561.0	1335.6	1244.7
12.5°	2728.3	2704.8	2704.8	2701.4	2647.6	2570.2	2391.9	2109.3	1752.7	1436.5	1312.0
15°	2873.0	2869.6	2879.7	2899.9	2886.4	2836.0	2657.7	2371.7	1947.8	1550.9	1389.4
17.5°	2980.6	2967.2	2987.4	3041.2	3081.6	3061.4	2913.4	2624.0	2163.1	1675.3	1473.5
20°	3098.4	3071.5	3098.4	3165.7	3216.1	3246.4	3175.8	2866.3	2395.3	1809.9	1554.2
22.5°	3323.8	3320.4	3307.0	3327.1	3360.8	3414.6	3374.2	3111.8	2620.7	1944.5	1648.4
25°	3727.5	3690.5	3653.5	3609.7	3572.7	3589.5	3555.9	3340.6	2825.9	2092.5	1729.2
27.5°	4178.3	4137.9	4070.6	3963.0	3862.0	3801.5	3730.8	3539.1	3024.4	2227.1	1806.5
30°	4592.1	4578.6	4477.7	4359.9	4185.0	4074.0	3939.4	3767.8	3263.2	2375.1	1887.3
32.5°	4978.9	4952.0	4851.1	4726.6	4521.4	4396.9	4211.9	4016.8	3535.7	2556.8	1971.4
35°	5312.0	5285.1	5167.3	5009.2	4830.9	4723.3	4511.3	4238.8	3784.7	2714.9	2042.0
37.5°	5564.3	5534.0	5423.0	5268.3	5110.1	5059.7	4878.0	4521.4	4067.3	2913.4	2129.5
40°	5705.6	5668.6	5594.6	5486.9	5355.7	5332.2	5254.8	4871.3	4423.9	3155.6	2257.3
42.5°	5722.4	5688.8	5648.4	5638.3	5628.2	5648.4	5685.4	5268.3	4830.9	3478.5	2445.7
45°	5574.4	5554.2	5557.6	5672.0	5830.1	6015.1	6237.1	5853.6	5379.3	4094.2	2869.6
47.5°	5258.2	5248.1	5322.1	5513.8	5867.1	6287.6	6916.7	6856.1	6677.8	5086.6	3414.6
50°	4746.8	4730.0	4888.1	5190.9	5695.5	6378.4	7374.2	8037.0	8185.0	5857.0	3771.2
52.5°	4013.4	4033.6	4279.2	4693.0	5301.9	6280.9	7562.6	8521.4	8911.6	6425.5	4043.7
55°	3263.2	3232.9	3455.0	3966.3	4719.9	5924.3	7599.6	8800.6	9382.6	6950.3	4309.5
57.5°	2378.5	2452.5	2688.0	3152.2	3969.7	5278.4	7384.3	8992.4	10015.1	7475.1	4555.1
60°	1611.4	1611.4	1820.0	2284.3	3068.1	4494.5	6809.0	8921.7	10566.8	7885.6	4608.9
62.5°	1026.1	1016.0	1184.2	1513.9	2196.8	3492.0	5947.8	8477.7	10761.9	7983.1	4383.5
65°	649.3	662.7	723.3	925.1	1406.2	2479.4	4773.7	7592.9	10442.3	7757.7	3989.9
67.5°	521.4	524.8	555.1	639.2	864.6	1591.2	3539.1	6371.7	9678.7	7189.2	3529.0
70°	460.9	467.6	474.3	504.6	592.1	1005.9	2324.6	5130.3	8427.2	6200.1	3034.5
72.5°	420.5	427.2	434.0	440.7	487.8	656.0	1372.6	3889.0	6798.9	4763.6	2314.5
75°	386.9	393.6	393.6	397.0	423.9	487.8	753.6	2681.2	4733.4	2963.8	1443.2
77.5°	346.5	349.9	349.9	356.6	383.5	383.5	467.6	1658.5	2627.4	1342.3	730.0
80°	292.7	299.4	299.4	309.5	336.4	296.0	312.9	847.8	1090.0	551.7	326.3
82.5°	215.3	228.8	235.5	252.3	269.1	225.4	225.4	427.2	460.9	245.6	174.9
85°	117.7	121.1	174.9	188.4	198.5	134.6	151.4	211.9	228.8	107.7	87.5
87.5°	33.6	37.0	84.1	104.3	94.2	57.2	63.9	80.7	80.7	30.3	23.5
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: P572870

CATALOG NUMBER: ARCH-S-PA2-120-830-U-T2R

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1086.6	1086.6	1086.6	1086.6	1086.6	1086.6	1086.6	1086.6	1086.6	1086.6
2.5°	1083.3	1056.3	1032.8	1016.0	999.2	989.1	985.7	979.0	979.0	982.3
5°	1096.7	1049.6	1012.6	992.4	979.0	972.2	968.9	968.9	972.2	972.2
7.5°	1130.4	1059.7	1026.1	1009.2	995.8	989.1	989.1	985.7	989.1	989.1
10°	1177.5	1090.0	1053.0	1032.8	1022.7	1012.6	1009.2	1005.9	1005.9	1005.9
12.5°	1227.9	1123.6	1083.3	1059.7	1042.9	1029.4	1022.7	1016.0	1012.6	1012.6
15°	1275.0	1157.3	1103.4	1076.5	1053.0	1032.8	1019.3	1009.2	1005.9	1005.9
17.5°	1325.5	1180.8	1116.9	1079.9	1049.6	1022.7	1005.9	992.4	985.7	985.7
20°	1379.3	1197.6	1116.9	1069.8	1029.4	1002.5	982.3	968.9	955.4	955.4
22.5°	1423.0	1204.4	1103.4	1046.3	1005.9	972.2	952.1	935.2	925.1	925.1
25°	1460.0	1197.6	1073.2	1009.2	962.1	931.9	911.7	898.2	888.1	888.1
27.5°	1483.6	1170.7	1036.2	968.9	925.1	894.9	881.4	868.0	861.2	861.2
30°	1497.0	1137.1	989.1	925.1	881.4	864.6	857.9	844.4	834.3	830.9
32.5°	1503.8	1086.6	942.0	881.4	851.1	844.4	844.4	827.6	814.1	810.8
35°	1497.0	1032.8	894.9	844.4	834.3	837.7	830.9	810.8	793.9	787.2
37.5°	1487.0	968.9	844.4	817.5	827.6	834.3	814.1	787.2	760.3	753.6
40°	1480.2	911.7	804.0	790.6	820.9	824.2	787.2	736.7	716.6	709.8
42.5°	1513.9	854.5	767.0	770.4	804.0	807.4	740.1	716.6	703.1	699.7
45°	1628.2	804.0	736.7	756.9	783.8	770.4	716.6	713.2	703.1	699.7
47.5°	1715.7	767.0	723.3	746.8	767.0	719.9	713.2	709.8	699.7	696.4
50°	1746.0	743.5	719.9	740.1	743.5	696.4	706.5	706.5	696.4	693.0
52.5°	1749.4	730.0	726.7	736.7	706.5	686.3	699.7	699.7	689.7	686.3
55°	1762.8	723.3	730.0	736.7	666.1	672.8	686.3	689.7	679.6	676.2
57.5°	1735.9	713.2	736.7	740.1	649.3	659.4	672.8	672.8	672.8	672.8
60°	1631.6	693.0	733.4	733.4	635.8	642.6	656.0	662.7	666.1	666.1
62.5°	1439.9	652.6	713.2	713.2	622.4	629.1	645.9	645.9	656.0	656.0
65°	1197.6	595.5	672.8	669.5	608.9	615.6	635.8	629.1	645.9	649.3
67.5°	999.2	524.8	612.3	619.0	595.5	612.3	625.7	602.2	635.8	635.8
70°	797.3	440.7	531.5	561.8	571.9	615.6	605.5	568.5	612.3	602.2
72.5°	619.0	373.4	437.3	491.2	545.0	612.3	561.8	521.4	548.4	531.5
75°	450.8	309.5	360.0	407.1	508.0	602.2	518.1	457.5	457.5	450.8
77.5°	316.2	252.3	289.3	323.0	471.0	575.3	464.3	393.6	376.8	373.4
80°	215.3	198.5	228.8	248.9	417.2	521.4	400.3	326.3	296.0	289.3
82.5°	141.3	141.3	154.8	168.2	323.0	434.0	312.9	242.2	312.9	299.4
85°	80.7	84.1	84.1	97.6	178.3	306.1	222.0	242.2	144.7	134.6
87.5°	26.9	26.9	26.9	26.9	37.0	124.5	94.2	87.5	33.6	30.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)