

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: P572790

Luminaire Tested: **ARCH-S-PA2-110-830-U-T2U-HSS**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P572790
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2108-332-16)
Test Lab: INNOVATION CENTER
Issue Date: 10/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-S-PA2-110-830-U-T2U-HSS
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 80 CRI, 3000K, 1105mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II U
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8209 lumens
Efficiency: N/A
Efficacy: 71.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

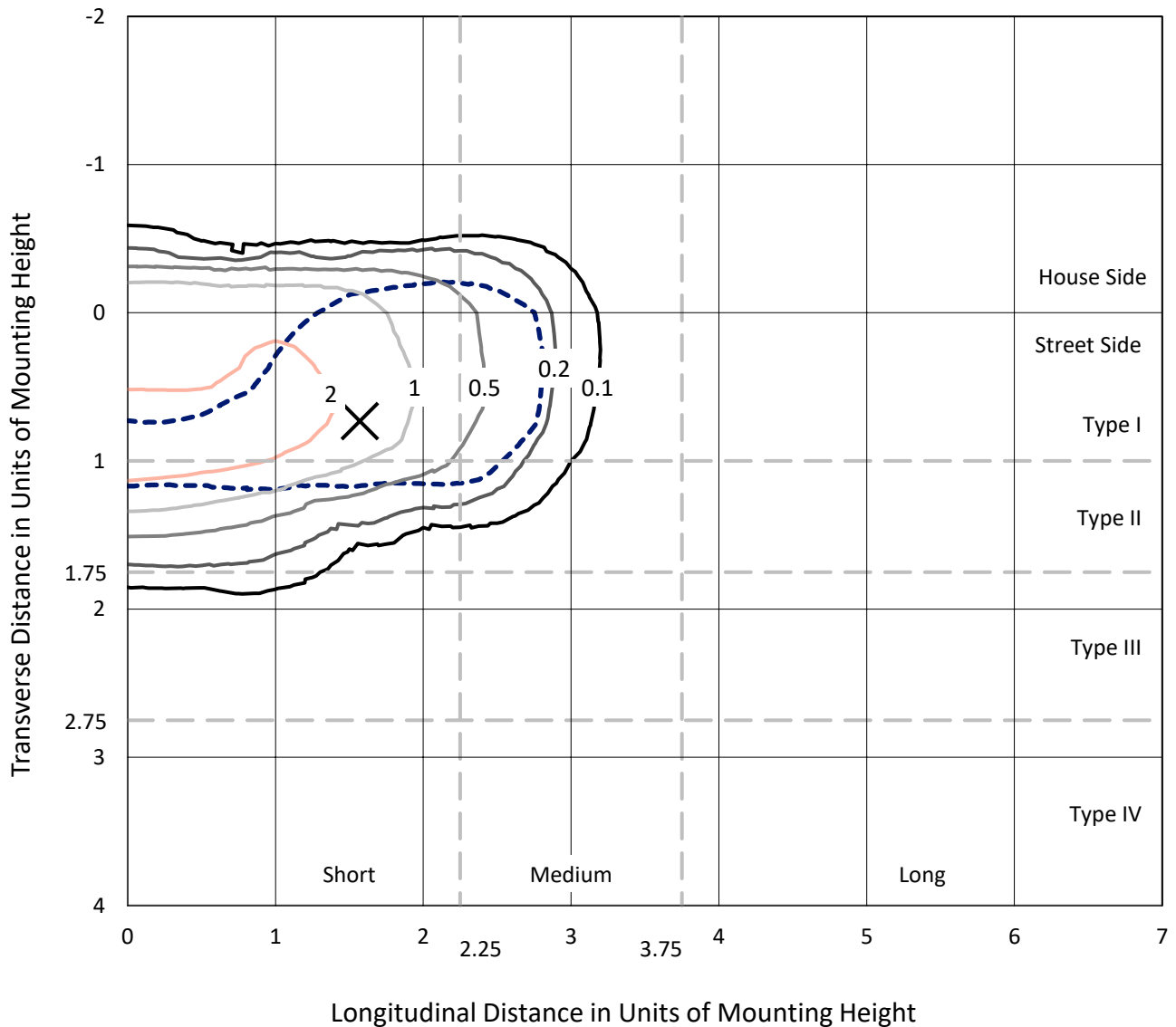
Input Watts (W): 114.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P572790
 CATALOG NUMBER: ARCH-S-PA2-110-830-U-T2U-HSS

Iso-Footcandle Lines of Horizontal Illumination

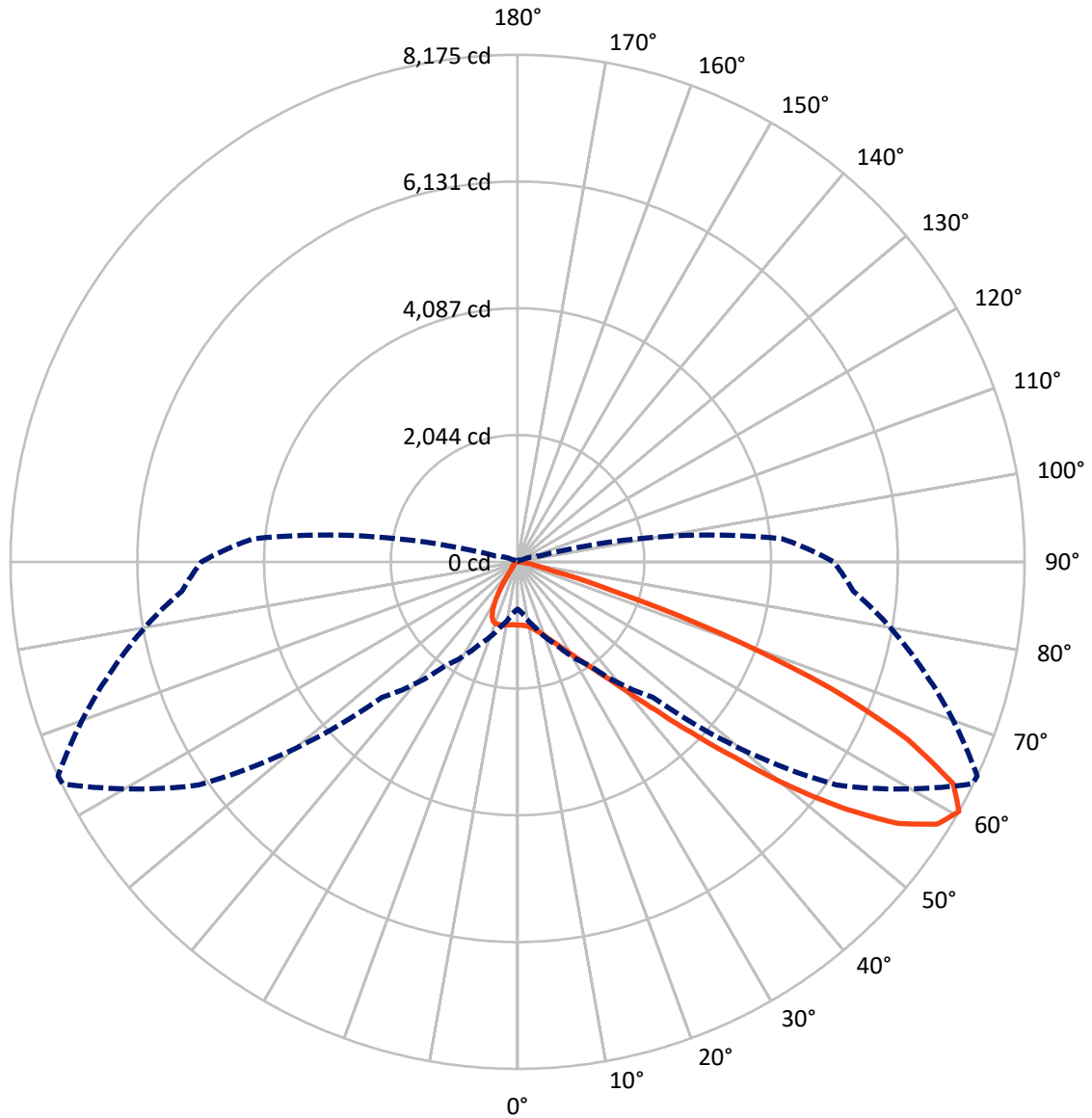
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 fc
 Type II - Short - N/A

REPORT NUMBER: P572790
CATALOG NUMBER: ARCH-S-PA2-110-830-U-T2U-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P572790
 CATALOG NUMBER: ARCH-S-PA2-110-830-U-T2U-HSS

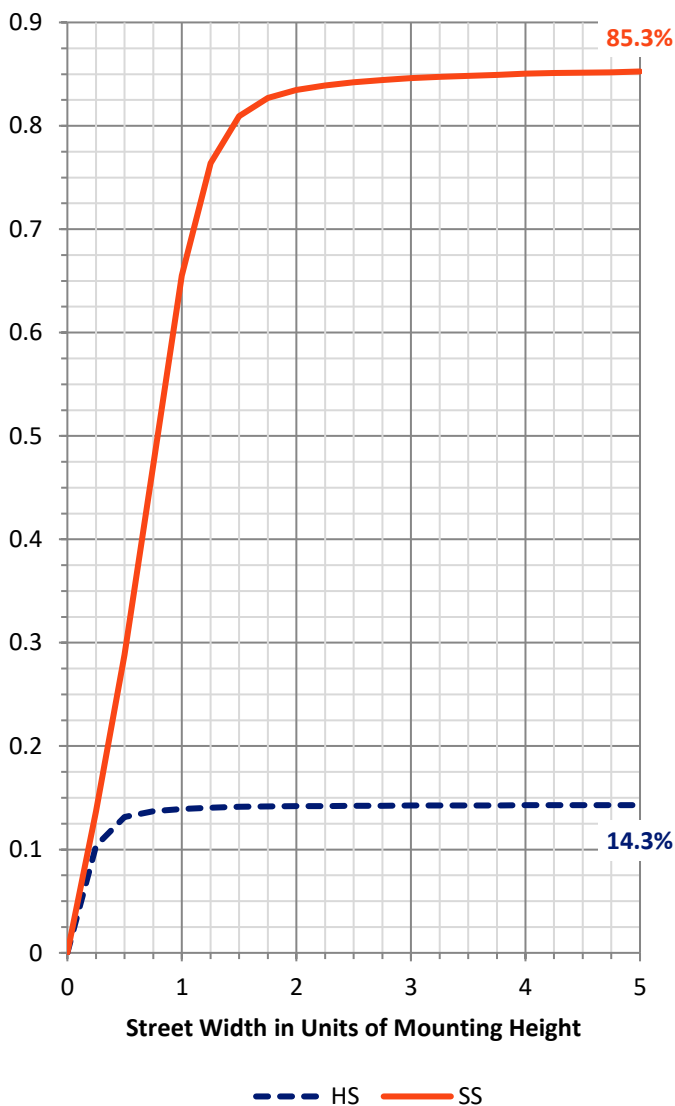
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1188.4	0.0	1188.4
	% Fixture	14.5	0.0	14.5
Street Side	Lumens	7020.5	0.0	7020.5
	% Fixture	85.5	0.0	85.5
Total	Lumens	8209.0	0.0	8209.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.6	1.2
10°-20°	274.2	3.3
20°-30°	465.8	5.7
30°-40°	961.1	11.7
40°-50°	1932.9	23.5
50°-60°	2365.3	28.8
60°-70°	1673.3	20.4
70°-80°	403.2	4.9
80°-90°	36.4	0.4
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°	8209.0	100.0
0°-180°	8209.0	100.0

Coefficient of Utilization



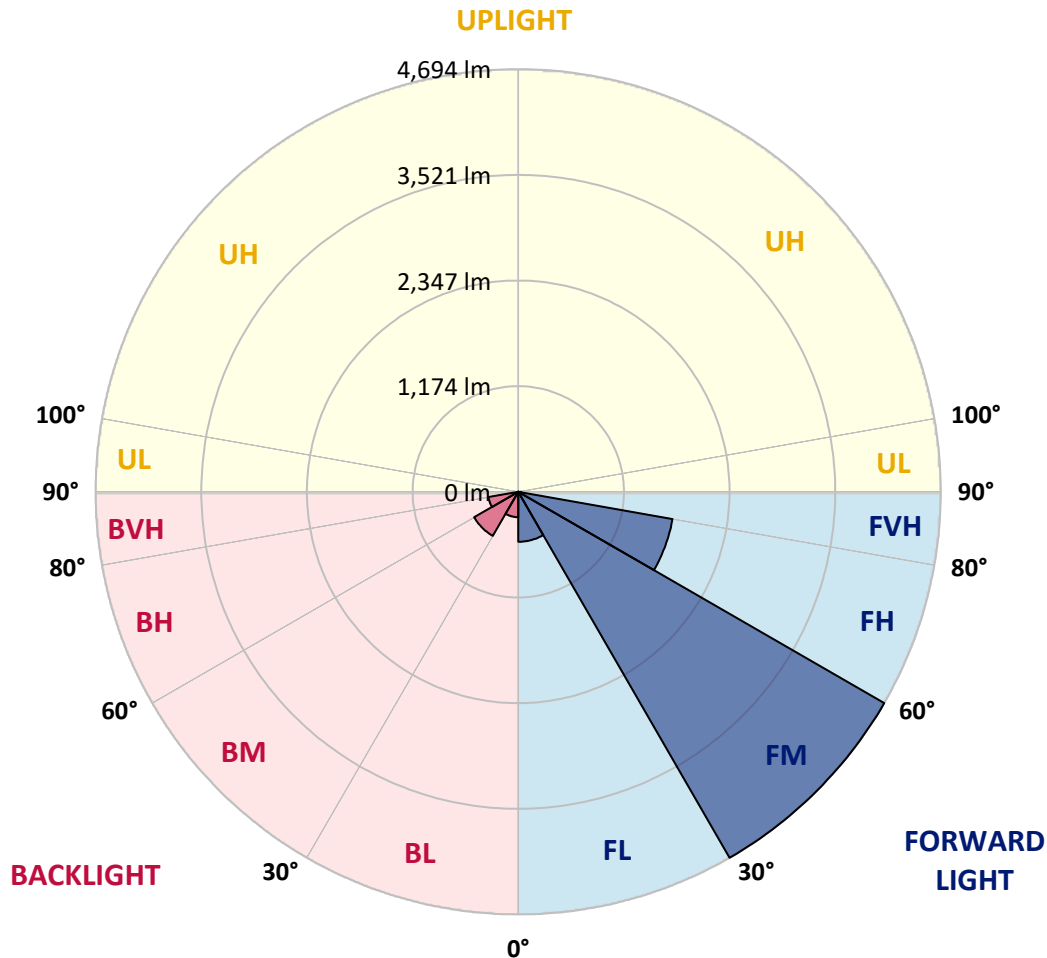
REPORT NUMBER: P572790
 CATALOG NUMBER: ARCH-S-PA2-110-830-U-T2U-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	554.9	6.8			
FM	(30°-60°)	4694.3	57.2			
FH	(60°-80°)	1739.7	21.2			G1/1800
FVH	(80°-90°)	31.7	0.4			G1/100
BL	(0°-30°)	281.8	3.4	B1/500		
BM	(30°-60°)	565.1	6.9	B1/1000		
BH	(60°-80°)	336.9	4.1	B1/500		G1/500
BVH	(80°-90°)	4.7	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short





REPORT NUMBER: P572790

CATALOG NUMBER: ARCH-S-PA2-110-830-U-T2U-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	1022.6	1022.6	1022.6	1022.6	1022.6	1022.6	1022.6	1022.6	1022.6	1022.6	1022.6
2.5°	1025.9	1022.6	1022.6	1022.6	1025.9	1025.9	1029.1	1022.6	1022.6	1022.6	1022.6
5°	1019.4	1016.2	1016.2	1019.4	1022.6	1022.6	1029.1	1029.1	1029.1	1032.3	1032.3
7.5°	1032.3	1025.9	1025.9	1029.1	1032.3	1032.3	1038.8	1042.1	1042.1	1048.5	1051.8
10°	1048.5	1045.3	1045.3	1051.8	1058.2	1058.2	1067.9	1067.9	1067.9	1074.4	1077.7
12.5°	1071.2	1067.9	1067.9	1077.7	1087.4	1093.8	1100.3	1103.5	1106.8	1106.8	1106.8
15°	1103.5	1100.3	1100.3	1110.0	1123.0	1139.1	1148.8	1148.8	1155.3	1152.1	1139.1
17.5°	1148.8	1145.6	1148.8	1155.3	1171.5	1187.7	1207.1	1210.3	1207.1	1200.6	1181.2
20°	1223.3	1213.6	1220.0	1236.2	1236.2	1245.9	1271.8	1281.5	1284.8	1265.4	1229.8
22.5°	1300.9	1300.9	1307.4	1326.8	1313.9	1326.8	1349.5	1365.7	1372.1	1356.0	1297.7
25°	1446.6	1453.0	1443.3	1436.9	1404.5	1411.0	1440.1	1472.5	1472.5	1459.5	1375.4
27.5°	1767.0	1760.5	1692.5	1598.7	1514.5	1521.0	1550.1	1592.2	1595.4	1566.3	1453.0
30°	2226.5	2233.0	2100.3	1886.7	1702.2	1653.7	1686.1	1734.6	1741.1	1692.5	1553.4
32.5°	2944.9	2889.9	2644.0	2359.2	2012.9	1838.2	1851.1	1902.9	1922.3	1880.2	1711.9
35°	3873.7	3744.3	3375.3	3022.6	2521.0	2168.2	2067.9	2122.9	2132.6	2110.0	1909.4
37.5°	4427.1	4323.6	4084.1	3763.7	3174.7	2608.4	2352.7	2407.7	2398.0	2352.7	2106.8
40°	4770.1	4711.9	4582.4	4433.6	4058.2	3300.9	2822.0	2776.7	2779.9	2715.2	2427.1
42.5°	4964.3	4912.5	4864.0	4902.8	4792.8	4556.6	3501.6	3294.4	3275.0	3152.0	2799.3
45°	4974.0	4896.4	4954.6	5181.1	5355.9	5669.8	4388.3	3909.3	3919.0	3715.1	3262.1
47.5°	4601.9	4540.4	4708.7	5152.0	5731.3	6397.9	5420.6	4750.7	4705.4	4304.1	3731.3
50°	3867.2	3864.0	4087.3	4715.1	5731.3	6773.3	6527.4	5737.8	5689.2	4919.0	4158.5
52.5°	3061.4	3122.9	3275.0	3870.5	5203.8	6737.7	7342.9	6757.2	6621.2	5465.9	4514.5
55°	2381.8	2359.2	2543.6	2954.6	4126.1	6122.9	7608.3	7559.7	7446.5	5951.4	4828.4
57.5°	1462.8	1546.9	1796.1	2161.8	3003.2	4815.5	7226.4	8048.4	7980.4	6404.4	5155.3
60°	760.5	825.2	1093.8	1475.7	2051.7	3087.3	6271.7	8161.7	8174.6	6770.1	5433.6
62.5°	479.0	475.7	598.7	1035.6	1320.4	1734.6	4870.5	7760.4	7883.4	7051.7	5698.9
65°	359.2	362.5	411.0	686.1	896.4	906.1	2889.9	6711.9	6915.7	7126.1	5789.5
67.5°	333.3	336.6	359.2	449.8	673.1	605.2	1271.8	5174.7	5459.5	6440.0	5440.0
70°	297.7	301.0	336.6	372.2	508.1	443.4	572.8	3116.5	3511.3	4673.1	4352.7
72.5°	233.0	239.5	281.5	352.7	378.6	336.6	398.1	1378.6	1608.4	2569.5	2491.9
75°	171.5	174.8	213.6	271.8	333.3	239.5	307.4	546.9	598.7	964.4	822.0
77.5°	119.7	119.7	148.9	203.9	278.3	168.3	220.1	294.5	301.0	359.2	236.2
80°	74.4	77.7	93.8	139.2	171.5	161.8	135.9	197.4	197.4	187.7	97.1
82.5°	42.1	45.3	64.7	93.8	116.5	110.0	87.4	113.3	116.5	119.7	55.0
85°	19.4	22.7	38.8	58.3	68.0	51.8	51.8	58.3	58.3	77.7	32.4
87.5°	3.2	3.2	19.4	25.9	22.7	25.9	25.9	32.4	32.4	38.8	16.2
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: P572790

CATALOG NUMBER: ARCH-S-PA2-110-830-U-T2U-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1022.6	1022.6	1022.6	1022.6	1022.6	1022.6	1022.6	1022.6	1022.6	1022.6	1022.6
2.5°	1019.4	1019.4	1019.4	1016.2	1016.2	1012.9	1006.5	1006.5	1006.5	1006.5	1009.7
5°	1032.3	1029.1	1025.9	1016.2	1009.7	996.7	983.8	980.6	970.9	970.9	974.1
7.5°	1048.5	1048.5	1038.8	1022.6	1006.5	983.8	961.1	945.0	928.8	925.6	922.3
10°	1077.7	1071.2	1061.5	1032.3	1006.5	970.9	935.3	893.2	860.8	844.6	838.2
12.5°	1100.3	1097.1	1077.7	1045.3	1003.2	948.2	867.3	770.2	692.5	650.5	650.5
15°	1132.7	1126.2	1097.1	1051.8	993.5	864.1	699.0	550.2	466.0	420.7	414.2
17.5°	1165.0	1152.1	1116.5	1055.0	951.4	712.0	488.7	352.7	294.5	271.8	265.4
20°	1203.9	1181.2	1129.4	1058.2	847.9	517.8	317.1	236.2	213.6	203.9	207.1
22.5°	1255.6	1216.8	1142.4	1038.8	692.5	336.6	223.3	190.9	178.0	168.3	168.3
25°	1320.4	1265.4	1165.0	983.8	501.6	226.5	178.0	158.6	145.6	139.2	135.9
27.5°	1378.6	1310.7	1187.7	886.7	320.4	178.0	148.9	132.7	119.7	116.5	113.3
30°	1456.3	1362.4	1210.3	731.4	210.4	145.6	126.2	110.0	100.3	97.1	97.1
32.5°	1589.0	1462.8	1252.4	556.6	158.6	126.2	106.8	93.8	87.4	84.1	84.1
35°	1744.3	1585.7	1288.0	388.3	135.9	106.8	90.6	80.9	77.7	74.4	74.4
37.5°	1906.1	1731.4	1294.5	246.0	119.7	93.8	80.9	74.4	68.0	68.0	68.0
40°	2197.4	1987.0	1265.4	165.0	103.6	84.1	71.2	68.0	61.5	61.5	61.5
42.5°	2537.2	2297.7	1190.9	132.7	93.8	74.4	68.0	61.5	55.0	55.0	51.8
45°	2977.3	2650.4	1064.7	116.5	84.1	68.0	61.5	55.0	51.8	48.5	48.5
47.5°	3391.5	3051.7	945.0	103.6	77.7	64.7	55.0	48.5	45.3	45.3	45.3
50°	3786.3	3359.2	805.8	97.1	71.2	61.5	51.8	45.3	42.1	38.8	38.8
52.5°	4071.1	3601.9	676.4	87.4	64.7	55.0	48.5	42.1	35.6	32.4	32.4
55°	4388.3	3847.8	559.9	77.7	61.5	51.8	42.1	35.6	29.1	25.9	25.9
57.5°	4744.3	4087.3	453.1	71.2	58.3	45.3	35.6	29.1	22.7	19.4	19.4
60°	5097.0	4278.2	362.5	64.7	51.8	42.1	32.4	22.7	16.2	12.9	12.9
62.5°	5449.7	4407.7	278.3	58.3	48.5	35.6	25.9	16.2	9.7	6.5	6.5
65°	5595.4	4372.1	207.1	51.8	42.1	29.1	22.7	16.2	9.7	6.5	6.5
67.5°	5190.9	3932.0	145.6	51.8	38.8	29.1	19.4	12.9	6.5	3.2	3.2
70°	4051.7	3035.5	106.8	51.8	38.8	29.1	19.4	12.9	6.5	3.2	3.2
72.5°	2297.7	1689.3	80.9	45.3	35.6	25.9	19.4	12.9	6.5	3.2	3.2
75°	818.8	543.7	61.5	42.1	32.4	22.7	19.4	12.9	6.5	3.2	3.2
77.5°	197.4	139.2	48.5	35.6	29.1	22.7	16.2	12.9	9.7	3.2	3.2
80°	80.9	58.3	38.8	29.1	22.7	19.4	16.2	12.9	6.5	3.2	3.2
82.5°	35.6	29.1	16.2	16.2	12.9	12.9	12.9	12.9	6.5	3.2	3.2
85°	16.2	12.9	6.5	6.5	3.2	3.2	3.2	6.5	6.5	3.2	3.2
87.5°	9.7	6.5	6.5	6.5	3.2	3.2	3.2	0.0	0.0	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)