

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: P572871

Luminaire Tested: **ARCH-S-PA2-120-830-U-T2U-HSS**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P572871
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-PA2-120-830-U-T2U-HSS
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 80 CRI, 3000K, 1200mA 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: 8534 lumens
Efficiency: N/A
Efficacy: 69.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

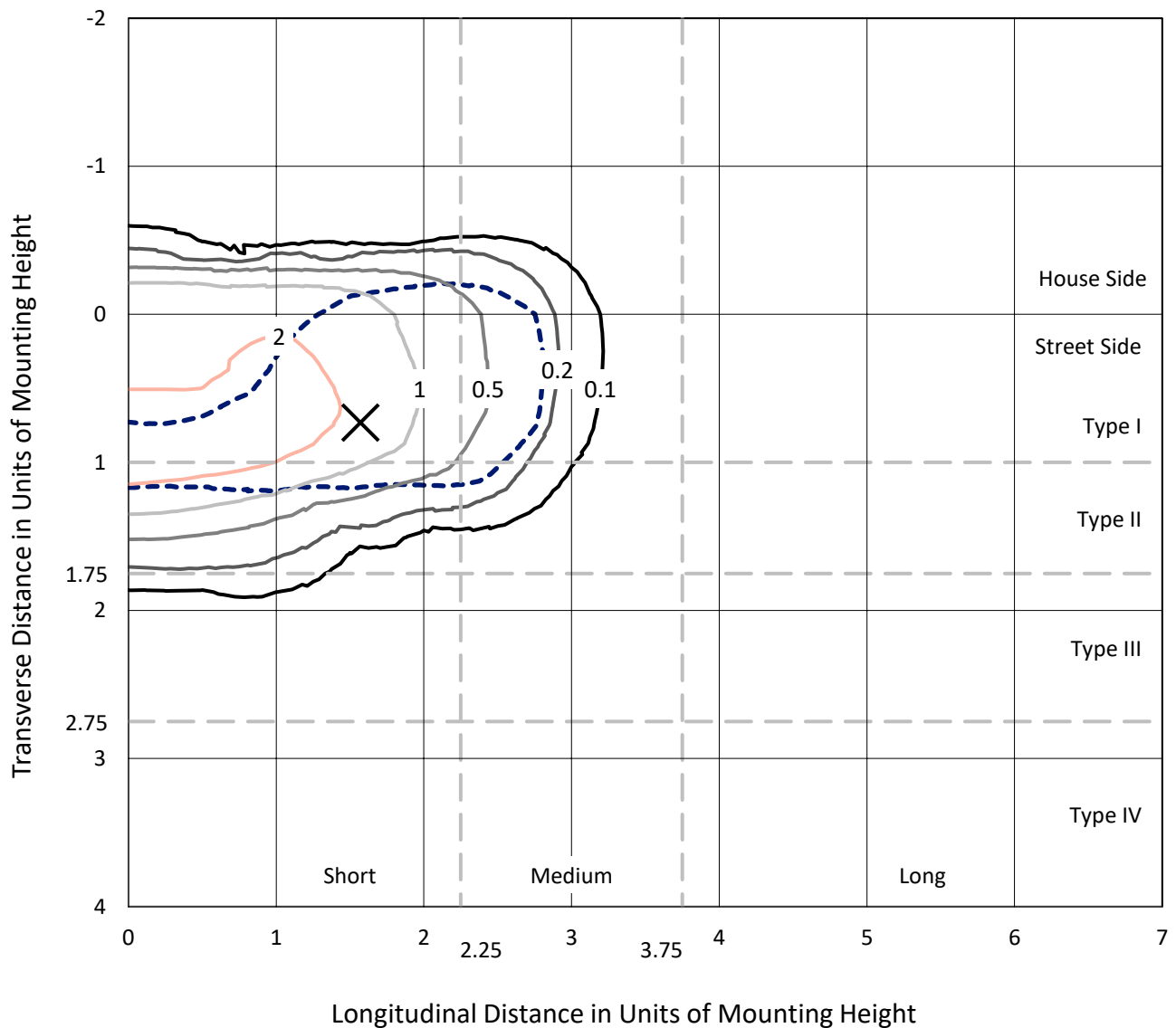
Input Watts (W): 122.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P572871
 CATALOG NUMBER: ARCH-S-PA2-120-830-U-T2U-HSS

Iso-Footcandle Lines of Horizontal Illumination

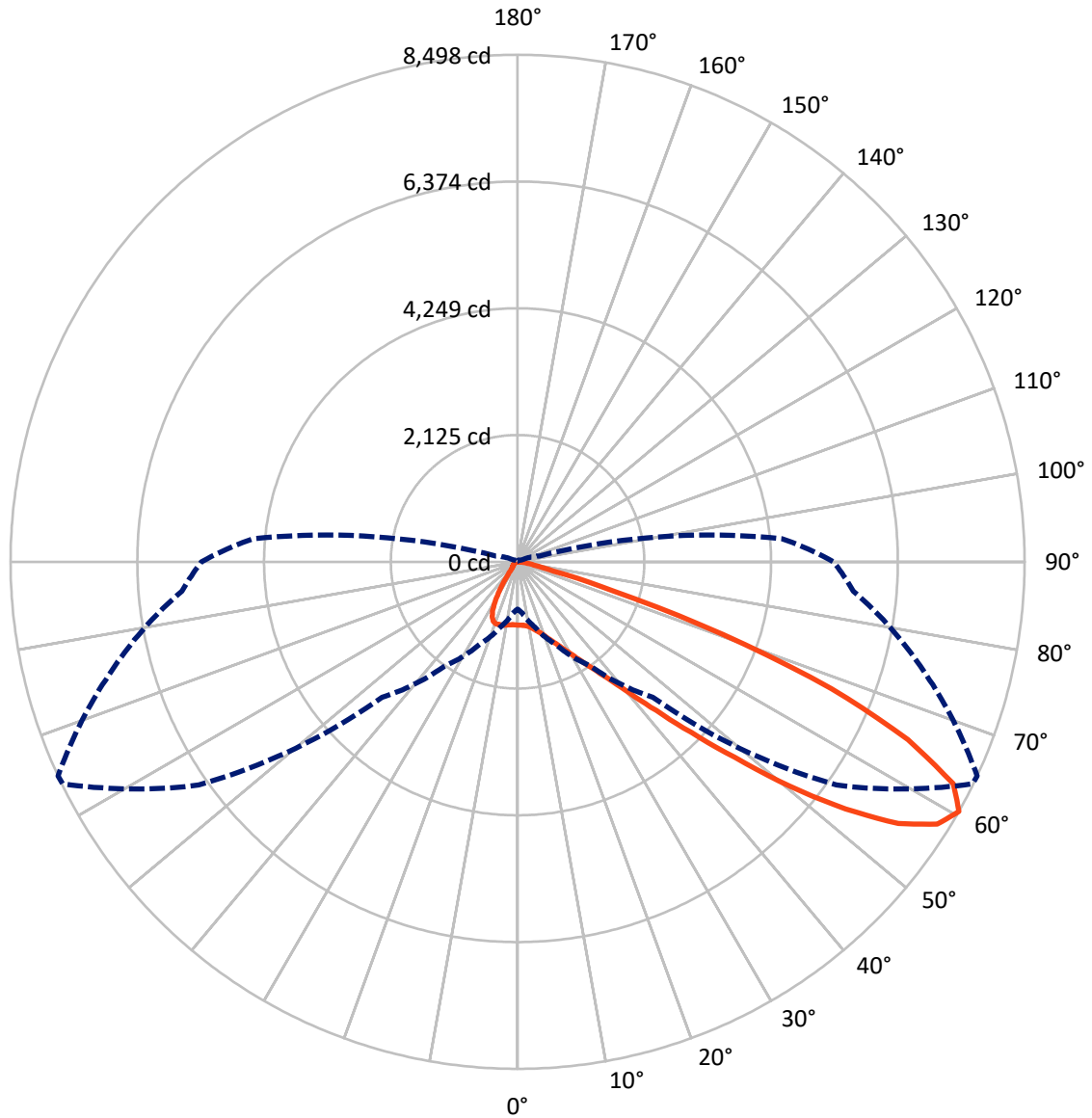
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 fc
 Type II - Short - N/A

REPORT NUMBER: P572871
CATALOG NUMBER: ARCH-S-PA2-120-830-U-T2U-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P572871
 CATALOG NUMBER: ARCH-S-PA2-120-830-U-T2U-HSS

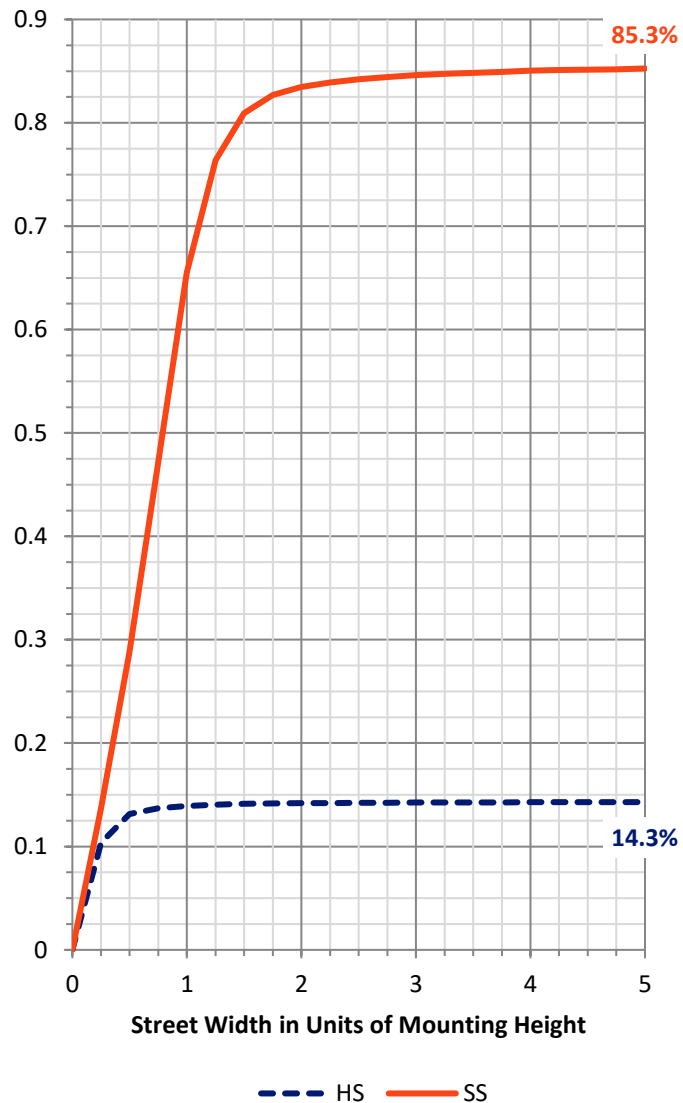
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1235.5	0.0	1235.5
	% Fixture	14.5	0.0	14.5
Street Side	Lumens	7298.5	0.0	7298.5
	% Fixture	85.5	0.0	85.5
Total	Lumens	8534.0	0.0	8534.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.5	1.2
10°-20°	285.1	3.3
20°-30°	484.2	5.7
30°-40°	999.2	11.7
40°-50°	2009.5	23.5
50°-60°	2458.9	28.8
60°-70°	1739.6	20.4
70°-80°	419.2	4.9
80°-90°	37.9	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°	8534.0	100.0
0°-180°	8534.0	100.0

Coefficient of Utilization



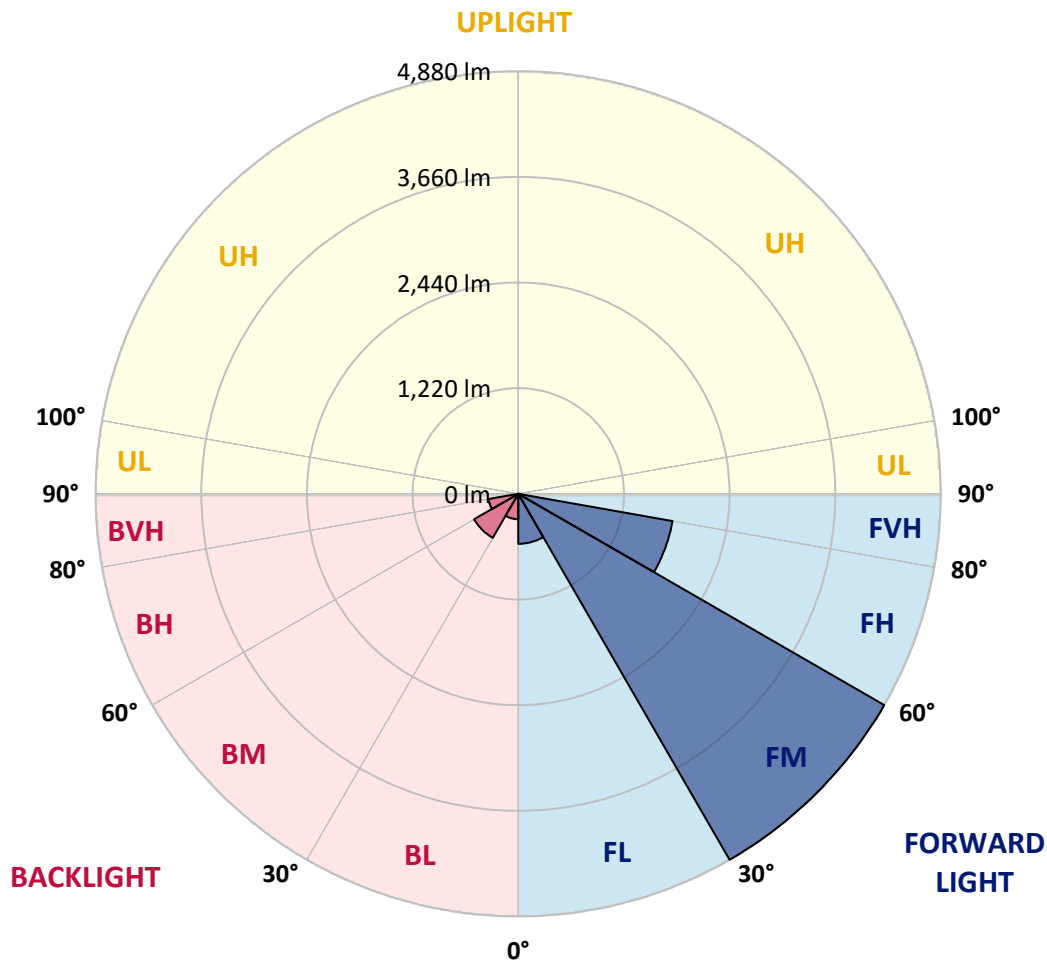
REPORT NUMBER: P572871
 CATALOG NUMBER: ARCH-S-PA2-120-830-U-T2U-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	576.9	6.8			
FM (30°-60°)	4880.1	57.2			
FH (60°-80°)	1808.6	21.2			G2/5000
FVH (80°-90°)	32.9	0.4			G1/100
BL (0°-30°)	292.9	3.4	B1/500		
BM (30°-60°)	587.5	6.9	B1/1000		
BH (60°-80°)	350.2	4.1	B1/500		G1/500
BVH (80°-90°)	4.9	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-G2

Type II Short





REPORT NUMBER: P572871

CATALOG NUMBER: ARCH-S-PA2-120-830-U-T2U-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	1063.1	1063.1	1063.1	1063.1	1063.1	1063.1	1063.1	1063.1	1063.1	1063.1	1063.1
2.5°	1066.5	1063.1	1063.1	1063.1	1066.5	1066.5	1069.9	1063.1	1063.1	1063.1	1063.1
5°	1059.8	1056.4	1056.4	1059.8	1063.1	1063.1	1069.9	1069.9	1069.9	1073.2	1073.2
7.5°	1073.2	1066.5	1066.5	1069.9	1073.2	1073.2	1079.9	1083.3	1083.3	1090.0	1093.4
10°	1090.0	1086.7	1086.7	1093.4	1100.1	1100.1	1110.2	1110.2	1110.2	1117.0	1120.3
12.5°	1113.6	1110.2	1110.2	1120.3	1130.4	1137.1	1143.9	1147.2	1150.6	1150.6	1150.6
15°	1147.2	1143.9	1143.9	1154.0	1167.4	1184.2	1194.3	1194.3	1201.1	1197.7	1184.2
17.5°	1194.3	1191.0	1194.3	1201.1	1217.9	1234.7	1254.9	1258.3	1254.9	1248.2	1228.0
20°	1271.7	1261.6	1268.3	1285.2	1285.2	1295.3	1322.2	1332.3	1335.6	1315.4	1278.4
22.5°	1352.5	1352.5	1359.2	1379.4	1365.9	1379.4	1402.9	1419.7	1426.5	1409.6	1349.1
25°	1503.8	1510.6	1500.5	1493.8	1460.1	1466.8	1497.1	1530.8	1530.8	1517.3	1429.8
27.5°	1836.9	1830.2	1759.5	1662.0	1574.5	1581.2	1611.5	1655.2	1658.6	1628.3	1510.6
30°	2314.6	2321.4	2183.4	1961.4	1769.6	1719.2	1752.8	1803.3	1810.0	1759.5	1614.9
32.5°	3061.5	3004.3	2748.6	2452.6	2092.6	1910.9	1924.4	1978.2	1998.4	1954.7	1779.7
35°	4027.1	3892.5	3509.0	3142.3	2620.8	2254.1	2149.8	2207.0	2217.1	2193.5	1984.9
37.5°	4602.4	4494.7	4245.8	3912.7	3300.4	2711.6	2445.9	2503.0	2493.0	2445.9	2190.2
40°	4959.0	4898.4	4763.9	4609.1	4218.8	3431.6	2933.7	2886.6	2889.9	2822.7	2523.2
42.5°	5160.9	5107.0	5056.6	5096.9	4982.5	4737.0	3640.2	3424.9	3404.7	3276.8	2910.1
45°	5171.0	5090.2	5150.8	5386.3	5567.9	5894.3	4562.0	4064.1	4074.2	3862.2	3391.2
47.5°	4784.1	4720.1	4895.1	5356.0	5958.2	6651.2	5635.2	4938.8	4891.7	4474.5	3879.1
50°	4020.4	4017.0	4249.1	4901.8	5958.2	7041.5	6785.8	5964.9	5914.5	5113.8	4323.1
52.5°	3182.6	3246.6	3404.7	4023.7	5409.8	7004.5	7633.6	7024.7	6883.4	5682.3	4693.2
55°	2476.1	2452.6	2644.4	3071.6	4289.5	6365.3	7909.5	7859.0	7741.3	6187.0	5019.6
57.5°	1520.7	1608.1	1867.2	2247.4	3122.1	5006.1	7512.5	8367.0	8296.4	6658.0	5359.4
60°	790.6	857.9	1137.1	1534.1	2133.0	3209.6	6520.0	8484.8	8498.3	7038.1	5648.7
62.5°	497.9	494.6	622.4	1076.6	1372.6	1803.3	5063.3	8067.6	8195.5	7330.8	5924.6
65°	373.4	376.8	427.3	713.2	931.9	942.0	3004.3	6977.6	7189.5	7408.2	6018.8
67.5°	346.5	349.9	373.4	467.6	699.8	629.1	1322.2	5379.5	5675.6	6695.0	5655.4
70°	309.5	312.9	349.9	386.9	528.2	460.9	595.5	3239.8	3650.3	4858.1	4525.0
72.5°	242.2	249.0	292.7	366.7	393.6	349.9	413.8	1433.2	1672.1	2671.3	2590.5
75°	178.3	181.7	222.0	282.6	346.5	249.0	319.6	568.6	622.4	1002.6	854.5
77.5°	124.5	124.5	154.8	212.0	289.3	174.9	228.8	306.2	312.9	373.4	245.6
80°	77.4	80.7	97.6	144.7	178.3	168.2	141.3	205.2	205.2	195.1	100.9
82.5°	43.7	47.1	67.3	97.6	121.1	114.4	90.8	117.8	121.1	124.5	57.2
85°	20.2	23.6	40.4	60.6	70.7	53.8	53.8	60.6	60.6	80.7	33.6
87.5°	3.4	3.4	20.2	26.9	23.6	26.9	26.9	33.6	33.6	40.4	16.8
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: P572871

CATALOG NUMBER: ARCH-S-PA2-120-830-U-T2U-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1063.1	1063.1	1063.1	1063.1	1063.1	1063.1	1063.1	1063.1	1063.1	1063.1	1063.1
2.5°	1059.8	1059.8	1059.8	1056.4	1056.4	1053.0	1046.3	1046.3	1046.3	1046.3	1049.7
5°	1073.2	1069.9	1066.5	1056.4	1049.7	1036.2	1022.8	1019.4	1009.3	1009.3	1012.7
7.5°	1090.0	1090.0	1079.9	1063.1	1046.3	1022.8	999.2	982.4	965.6	962.2	958.8
10°	1120.3	1113.6	1103.5	1073.2	1046.3	1009.3	972.3	928.6	894.9	878.1	871.4
12.5°	1143.9	1140.5	1120.3	1086.7	1042.9	985.7	901.6	800.7	720.0	676.2	676.2
15°	1177.5	1170.8	1140.5	1093.4	1032.8	898.3	726.7	571.9	484.5	437.4	430.6
17.5°	1211.2	1197.7	1160.7	1096.8	989.1	740.1	508.0	366.7	306.2	282.6	275.9
20°	1251.5	1228.0	1174.1	1100.1	881.5	538.3	329.7	245.6	222.0	212.0	215.3
22.5°	1305.4	1265.0	1187.6	1079.9	720.0	349.9	232.1	198.5	185.0	174.9	174.9
25°	1372.6	1315.4	1211.2	1022.8	521.5	235.5	185.0	164.9	151.4	144.7	141.3
27.5°	1433.2	1362.5	1234.7	921.8	333.1	185.0	154.8	137.9	124.5	121.1	117.8
30°	1513.9	1416.4	1258.3	760.3	218.7	151.4	131.2	114.4	104.3	100.9	100.9
32.5°	1651.9	1520.7	1302.0	578.7	164.9	131.2	111.0	97.6	90.8	87.5	87.5
35°	1813.4	1648.5	1339.0	403.7	141.3	111.0	94.2	84.1	80.7	77.4	77.4
37.5°	1981.6	1799.9	1345.7	255.7	124.5	97.6	84.1	77.4	70.7	70.7	70.7
40°	2284.4	2065.7	1315.4	171.6	107.7	87.5	74.0	70.7	63.9	63.9	63.9
42.5°	2637.6	2388.7	1238.1	137.9	97.6	77.4	70.7	63.9	57.2	57.2	53.8
45°	3095.2	2755.4	1106.9	121.1	87.5	70.7	63.9	57.2	53.8	50.5	50.5
47.5°	3525.8	3172.5	982.4	107.7	80.7	67.3	57.2	50.5	47.1	47.1	47.1
50°	3936.2	3492.2	837.7	100.9	74.0	63.9	53.8	47.1	43.7	40.4	40.4
52.5°	4232.3	3744.5	703.1	90.8	67.3	57.2	50.5	43.7	37.0	33.6	33.6
55°	4562.0	4000.2	582.0	80.7	63.9	53.8	43.7	37.0	30.3	26.9	26.9
57.5°	4932.1	4249.1	471.0	74.0	60.6	47.1	37.0	30.3	23.6	20.2	20.2
60°	5298.8	4447.6	376.8	67.3	53.8	43.7	33.6	23.6	16.8	13.5	13.5
62.5°	5665.5	4582.2	289.3	60.6	50.5	37.0	26.9	16.8	10.1	6.7	6.7
65°	5816.9	4545.2	215.3	53.8	43.7	30.3	23.6	16.8	10.1	6.7	6.7
67.5°	5396.4	4087.6	151.4	53.8	40.4	30.3	20.2	13.5	6.7	3.4	3.4
70°	4212.1	3155.7	111.0	53.8	40.4	30.3	20.2	13.5	6.7	3.4	3.4
72.5°	2388.7	1756.2	84.1	47.1	37.0	26.9	20.2	13.5	6.7	3.4	3.4
75°	851.2	565.2	63.9	43.7	33.6	23.6	20.2	13.5	6.7	3.4	3.4
77.5°	205.2	144.7	50.5	37.0	30.3	23.6	16.8	13.5	10.1	3.4	3.4
80°	84.1	60.6	40.4	30.3	23.6	20.2	16.8	13.5	6.7	3.4	3.4
82.5°	37.0	30.3	16.8	16.8	13.5	13.5	13.5	13.5	6.7	3.4	3.4
85°	16.8	13.5	6.7	6.7	3.4	3.4	3.4	6.7	6.7	3.4	3.4
87.5°	10.1	6.7	6.7	6.7	3.4	3.4	3.4	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)