

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: P572705

Luminaire Tested: **ARCH-S-PA2-100-827-U-T4W**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P572705
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-PA2-100-827-U-T4W
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 80 CRI, 2700K, 1010mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10188 lumens
Efficiency: N/A
Efficacy: 98.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

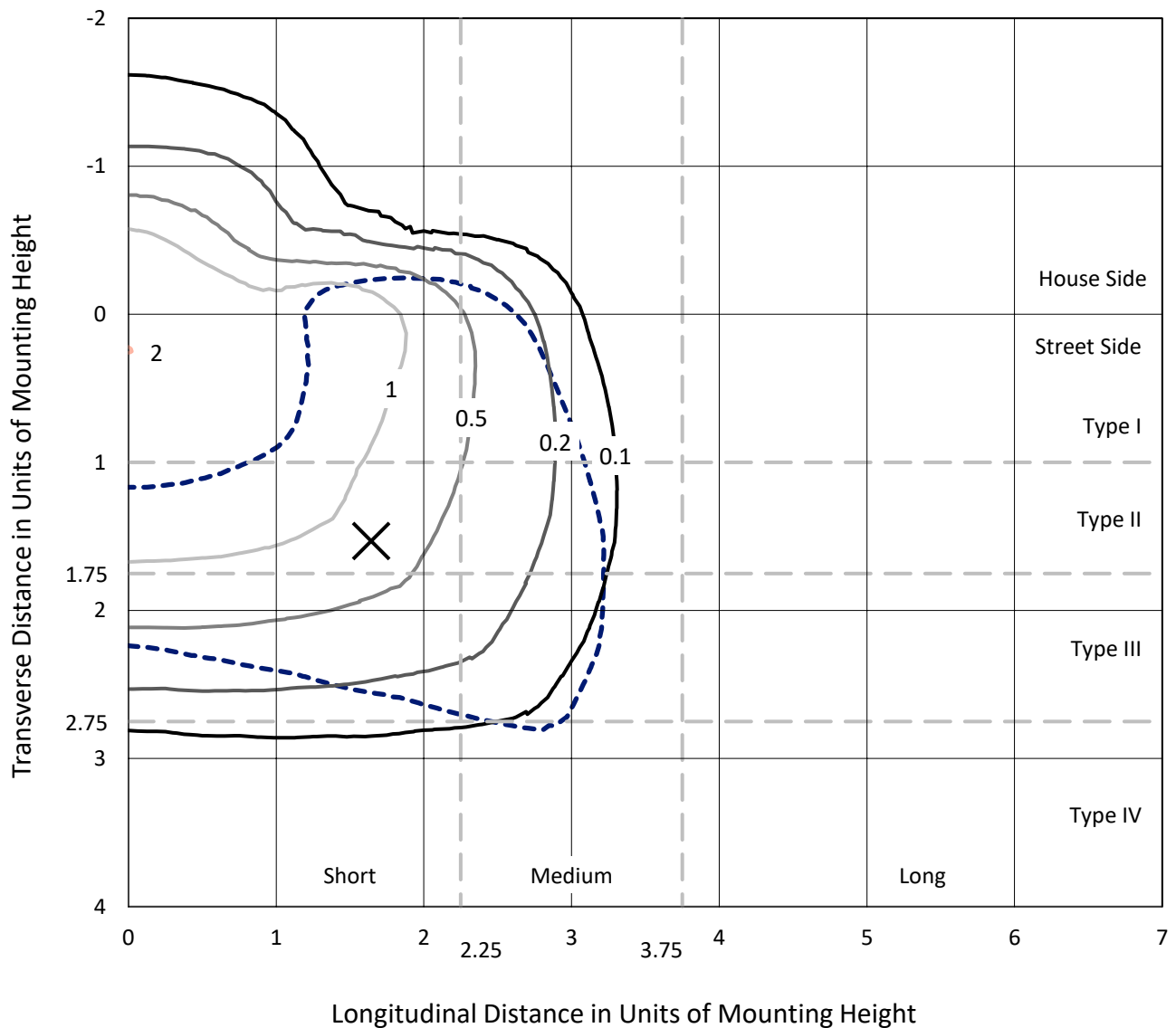
Input Watts (W): 103.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

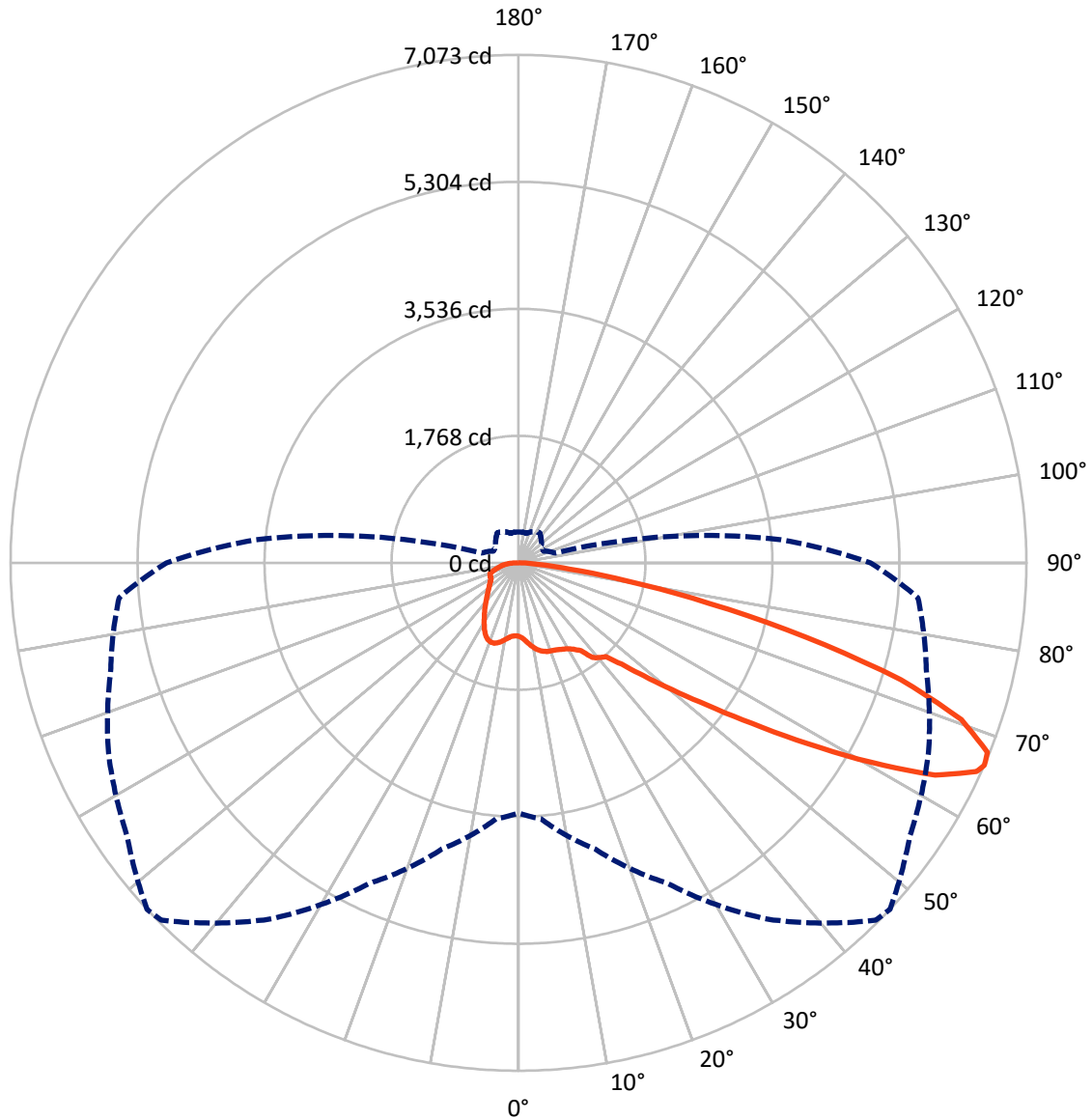
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 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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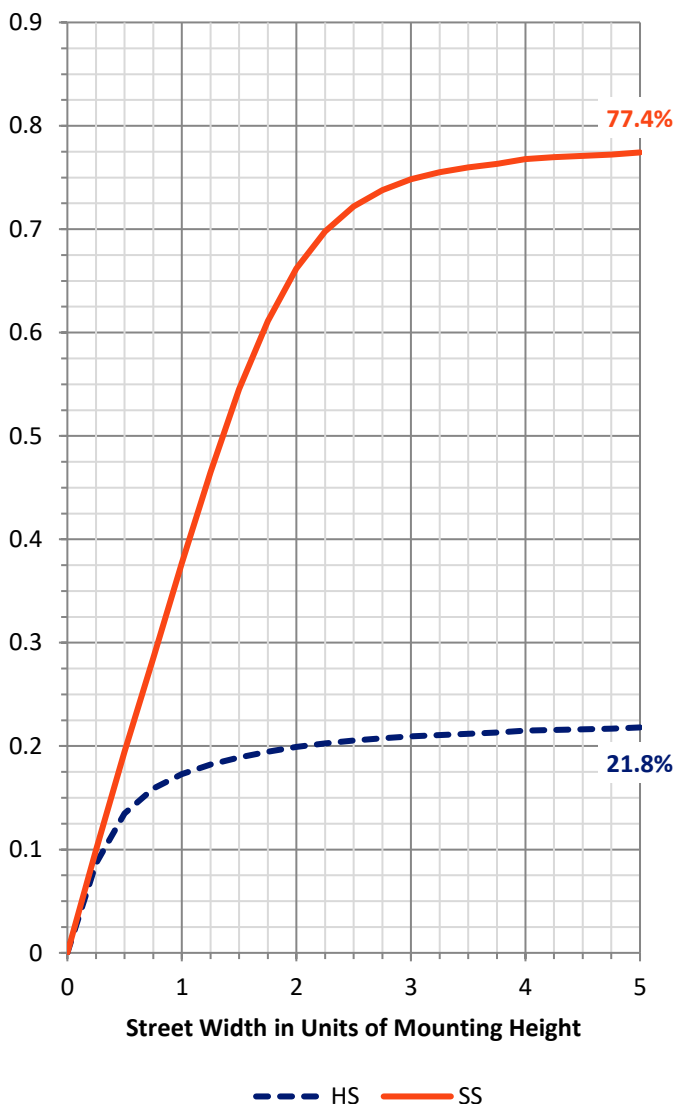
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2265.1	0.0	2265.1
	% Fixture	22.2	0.0	22.2
Street Side	Lumens	7922.9	0.0	7922.9
	% Fixture	77.8	0.0	77.8
Total	Lumens	10188.0	0.0	10188.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.2	1.0
10°-20°	342.0	3.4
20°-30°	570.3	5.6
30°-40°	828.2	8.1
40°-50°	1266.6	12.4
50°-60°	2394.2	23.5
60°-70°	3093.6	30.4
70°-80°	1390.6	13.6
80°-90°	198.3	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°	10188.0	100.0
0°-180°	10188.0	100.0

Coefficient of Utilization



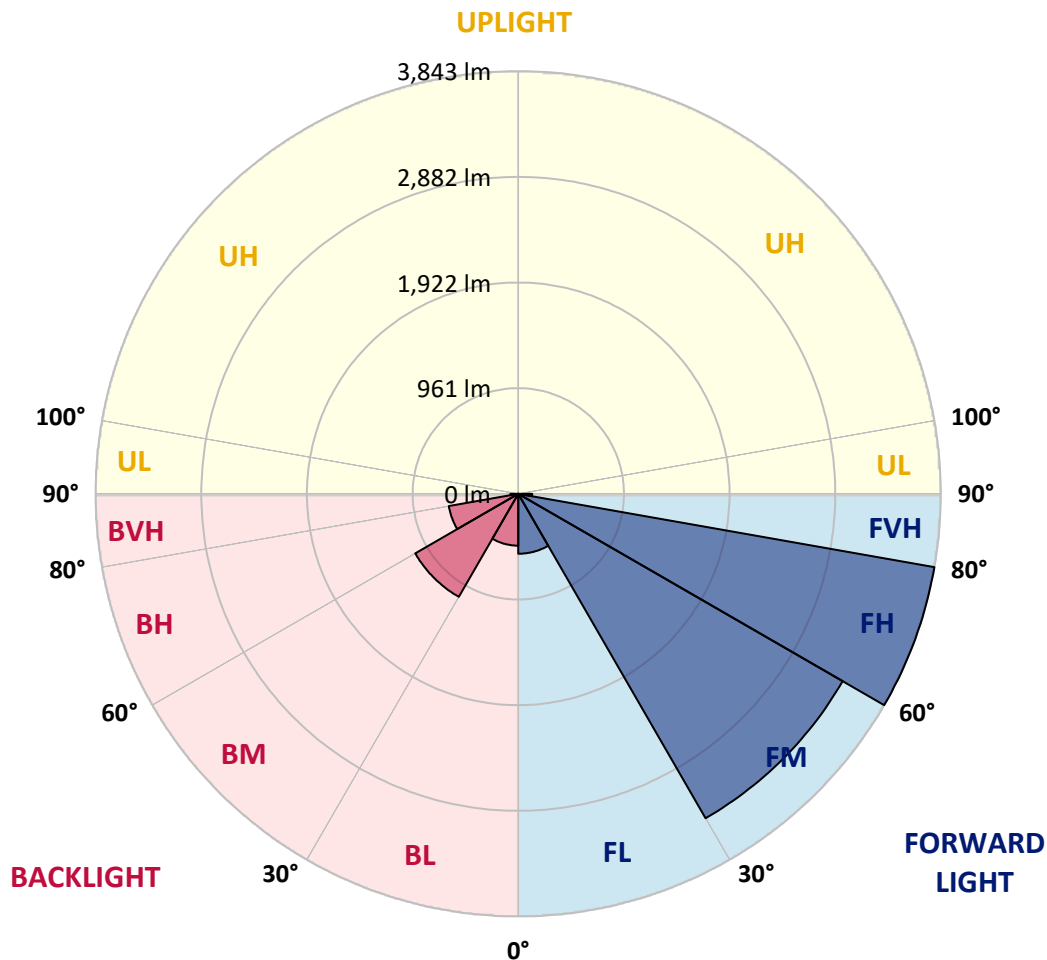
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	545.1	5.4			
FM	(30°-60°)	3407.1	33.4			
FH	(60°-80°)	3843.3	37.7			G2/5000
FVH	(80°-90°)	127.5	1.3			G2/225
BL	(0°-30°)	471.4	4.6	B1/500		
BM	(30°-60°)	1081.9	10.6	B2/2500		
BH	(60°-80°)	640.9	6.3	B2/1000		G2/1000
BVH	(80°-90°)	70.9	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°	1024.2	1024.2	1024.2	1024.2	1024.2	1024.2	1024.2	1024.2	1024.2	1024.2	1024.2
2.5°	1082.3	1074.0	1068.5	1065.7	1060.2	1049.1	1049.1	1046.3	1035.3	1029.7	1027.0
5°	1168.1	1162.6	1148.8	1137.7	1121.1	1098.9	1096.2	1079.6	1057.4	1040.8	1029.7
7.5°	1251.2	1245.7	1231.8	1215.2	1187.5	1159.8	1151.5	1129.4	1093.4	1068.5	1049.1
10°	1323.2	1314.9	1298.2	1276.1	1245.7	1215.2	1206.9	1182.0	1146.0	1110.0	1076.8
12.5°	1370.2	1364.7	1345.3	1317.6	1284.4	1254.0	1248.4	1226.3	1190.3	1151.5	1110.0
15°	1392.4	1389.6	1367.5	1339.8	1306.6	1281.6	1278.9	1259.5	1229.0	1190.3	1143.2
17.5°	1386.8	1384.1	1364.7	1337.0	1312.1	1298.2	1298.2	1284.4	1259.5	1226.3	1176.5
20°	1359.1	1359.1	1342.5	1323.2	1309.3	1306.6	1306.6	1303.8	1287.2	1259.5	1209.7
22.5°	1331.5	1331.5	1320.4	1306.6	1303.8	1314.9	1317.6	1323.2	1317.6	1295.5	1251.2
25°	1337.0	1334.2	1320.4	1303.8	1306.6	1331.5	1337.0	1350.8	1348.1	1331.5	1292.7
27.5°	1397.9	1395.1	1359.1	1325.9	1323.2	1353.6	1359.1	1378.5	1378.5	1364.7	1339.8
30°	1550.1	1555.7	1489.2	1406.2	1364.7	1384.1	1389.6	1411.7	1422.8	1428.3	1409.0
32.5°	1782.7	1774.4	1674.7	1539.1	1447.7	1428.3	1436.7	1456.0	1494.8	1505.9	1458.8
35°	2018.0	2023.5	1926.6	1755.0	1580.6	1508.6	1503.1	1530.8	1588.9	1539.1	1456.0
37.5°	2236.6	2228.3	2114.8	1929.4	1755.0	1671.9	1674.7	1663.6	1613.8	1514.2	1475.4
40°	2474.7	2452.6	2358.4	2120.4	1898.9	1760.5	1735.6	1641.5	1600.0	1558.5	1552.9
42.5°	2710.0	2712.8	2635.2	2400.0	2070.6	1824.2	1785.4	1688.6	1716.2	1707.9	1702.4
45°	3006.2	3006.2	2928.7	2710.0	2341.8	2062.2	2009.7	1893.4	1937.7	1970.9	2037.3
47.5°	3277.5	3260.8	3238.7	3053.2	2696.1	2372.3	2350.1	2217.3	2333.5	2435.9	2571.6
50°	3565.3	3543.2	3529.4	3415.9	3161.2	2842.9	2776.4	2638.0	2892.7	3083.7	3335.6
52.5°	4013.8	3975.0	3903.0	3839.4	3739.7	3371.6	3288.5	3186.1	3515.5	3756.3	4271.2
55°	4417.9	4384.7	4315.5	4362.6	4348.7	4013.8	3941.8	3844.9	4202.0	4495.4	5085.0
57.5°	4567.4	4570.2	4664.3	4916.2	5049.0	4855.3	4752.9	4656.0	4957.7	5093.3	5624.8
60°	4636.6	4628.3	4871.9	5281.6	5713.4	5771.5	5641.4	5442.1	5555.6	5563.9	6081.6
62.5°	4487.1	4509.3	4844.2	5433.8	6112.0	6530.0	6510.6	6161.8	6056.6	5940.4	6203.4
65°	3919.7	3950.1	4442.8	5162.5	6175.7	6989.5	7008.9	6602.0	6308.5	5984.7	5857.3
66°	3487.8	3579.2	4127.3	4927.3	6059.4	7036.6	7072.5	6649.0	6297.5	5879.5	5583.3
67.5°	2925.9	2920.4	3532.1	4409.6	5735.5	6995.0	7042.1	6582.6	6148.0	5569.5	5035.2
70°	1791.0	1846.3	2372.3	3291.3	4747.3	6477.4	6541.1	6114.8	5503.0	4716.9	3723.1
72.5°	919.0	1010.4	1356.4	2139.8	3446.3	5353.5	5569.5	5134.9	4498.2	3413.1	2272.6
75°	487.2	481.7	639.4	1159.8	2200.7	4016.5	4130.0	3850.5	3108.6	2034.6	1157.1
77.5°	260.2	274.0	334.9	595.1	1209.7	2566.0	2710.0	2483.0	1771.6	1040.8	553.6
80°	177.2	185.5	227.0	334.9	656.0	1392.4	1525.2	1323.2	927.3	492.7	260.2
82.5°	113.5	119.0	155.0	207.6	393.1	675.4	711.4	678.2	454.0	279.6	157.8
85°	69.2	72.0	94.1	132.9	246.4	274.0	285.1	287.9	254.7	182.7	85.8
87.5°	33.2	36.0	52.6	66.4	116.3	99.7	91.3	94.1	141.2	108.0	38.8
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°	1024.2	1024.2	1024.2	1024.2	1024.2	1024.2	1024.2	1024.2	1024.2	1024.2	1024.2
2.5°	1024.2	1021.4	1015.9	1013.1	1015.9	1015.9	1015.9	1018.7	1024.2	1024.2	1027.0
5°	1024.2	1018.7	1013.1	1013.1	1018.7	1024.2	1029.7	1040.8	1046.3	1049.1	1049.1
7.5°	1038.0	1032.5	1027.0	1027.0	1035.3	1046.3	1057.4	1071.3	1085.1	1096.2	1096.2
10°	1065.7	1057.4	1051.9	1054.7	1068.5	1082.3	1096.2	1112.8	1126.6	1140.5	1140.5
12.5°	1096.2	1087.9	1079.6	1085.1	1104.5	1121.1	1134.9	1143.2	1157.1	1168.1	1168.1
15°	1126.6	1112.8	1110.0	1121.1	1140.5	1151.5	1157.1	1157.1	1162.6	1173.7	1173.7
17.5°	1159.8	1146.0	1143.2	1154.3	1170.9	1170.9	1159.8	1151.5	1148.8	1157.1	1159.8
20°	1193.1	1179.2	1179.2	1187.5	1184.8	1165.4	1146.0	1132.2	1121.1	1129.4	1132.2
22.5°	1234.6	1220.7	1215.2	1204.1	1179.2	1140.5	1110.0	1093.4	1085.1	1090.6	1096.2
25°	1276.1	1265.0	1251.2	1212.4	1154.3	1093.4	1054.7	1040.8	1043.6	1054.7	1060.2
27.5°	1328.7	1323.2	1289.9	1206.9	1110.0	1027.0	988.2	985.5	996.5	1013.1	1021.4
30°	1392.4	1384.1	1325.9	1190.3	1049.1	949.5	921.8	927.3	943.9	957.8	966.1
32.5°	1436.7	1431.1	1342.5	1151.5	974.4	880.3	858.1	858.1	866.4	885.8	894.1
35°	1450.5	1472.6	1353.6	1093.4	885.8	819.4	797.2	783.4	783.4	800.0	805.5
37.5°	1497.6	1547.4	1359.1	1015.9	813.8	764.0	736.3	711.4	703.1	700.3	700.3
40°	1605.5	1663.6	1356.4	916.2	744.6	708.6	675.4	647.7	625.6	595.1	597.9
42.5°	1793.7	1838.0	1348.1	811.1	683.7	658.8	625.6	592.4	556.4	523.2	520.4
45°	2156.4	2089.9	1325.9	719.7	628.4	614.5	584.1	545.3	501.0	470.6	470.6
47.5°	2729.4	2546.7	1312.1	633.9	578.5	575.8	548.1	506.6	462.3	440.1	437.4
50°	3515.5	3177.8	1334.2	573.0	534.2	542.6	520.4	481.7	445.7	426.3	423.5
52.5°	4417.9	3856.0	1359.1	534.2	501.0	517.6	506.6	470.6	434.6	418.0	415.2
55°	5115.5	4406.8	1323.2	498.3	467.8	492.7	492.7	459.5	429.1	412.4	412.4
57.5°	5605.4	4628.3	1198.6	465.0	440.1	470.6	478.9	454.0	426.3	420.8	420.8
60°	5815.8	4617.2	979.9	434.6	420.8	448.4	470.6	448.4	431.8	445.7	448.4
62.5°	5702.3	4376.4	761.2	412.4	406.9	442.9	478.9	470.6	451.2	462.3	467.8
65°	5190.2	3952.9	573.0	393.1	390.3	445.7	501.0	484.4	437.4	440.1	442.9
66°	4902.3	3667.8	525.9	387.5	384.8	448.4	512.1	478.9	426.3	431.8	429.1
67.5°	4287.8	3219.3	462.3	376.5	373.7	448.4	525.9	467.8	412.4	420.8	412.4
70°	3144.6	2278.2	395.8	362.6	357.1	440.1	523.2	445.7	382.0	376.5	362.6
72.5°	1824.2	1378.5	351.6	346.0	332.2	387.5	490.0	409.7	348.8	332.2	318.3
75°	896.9	700.3	312.8	326.6	290.7	340.5	442.9	379.2	321.1	299.0	290.7
77.5°	412.4	354.3	282.3	299.0	257.4	293.4	404.1	346.0	285.1	251.9	243.6
80°	224.2	221.4	238.1	249.1	215.9	257.4	357.1	301.7	240.8	204.8	193.8
82.5°	138.4	141.2	174.4	191.0	168.9	224.2	315.6	251.9	182.7	143.9	146.7
85°	72.0	80.3	116.3	127.3	110.7	166.1	238.1	168.9	102.4	74.7	74.7
87.5°	24.9	33.2	58.1	69.2	60.9	99.7	149.5	80.3	22.1	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)