

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: P572948

Luminaire Tested: **ARCH-S-PA2-130-827-U-T4W**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P572948
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-PA2-130-827-U-T4W
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 80 CRI, 2700K, 1295mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11875 lumens
Efficiency: N/A
Efficacy: 90.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

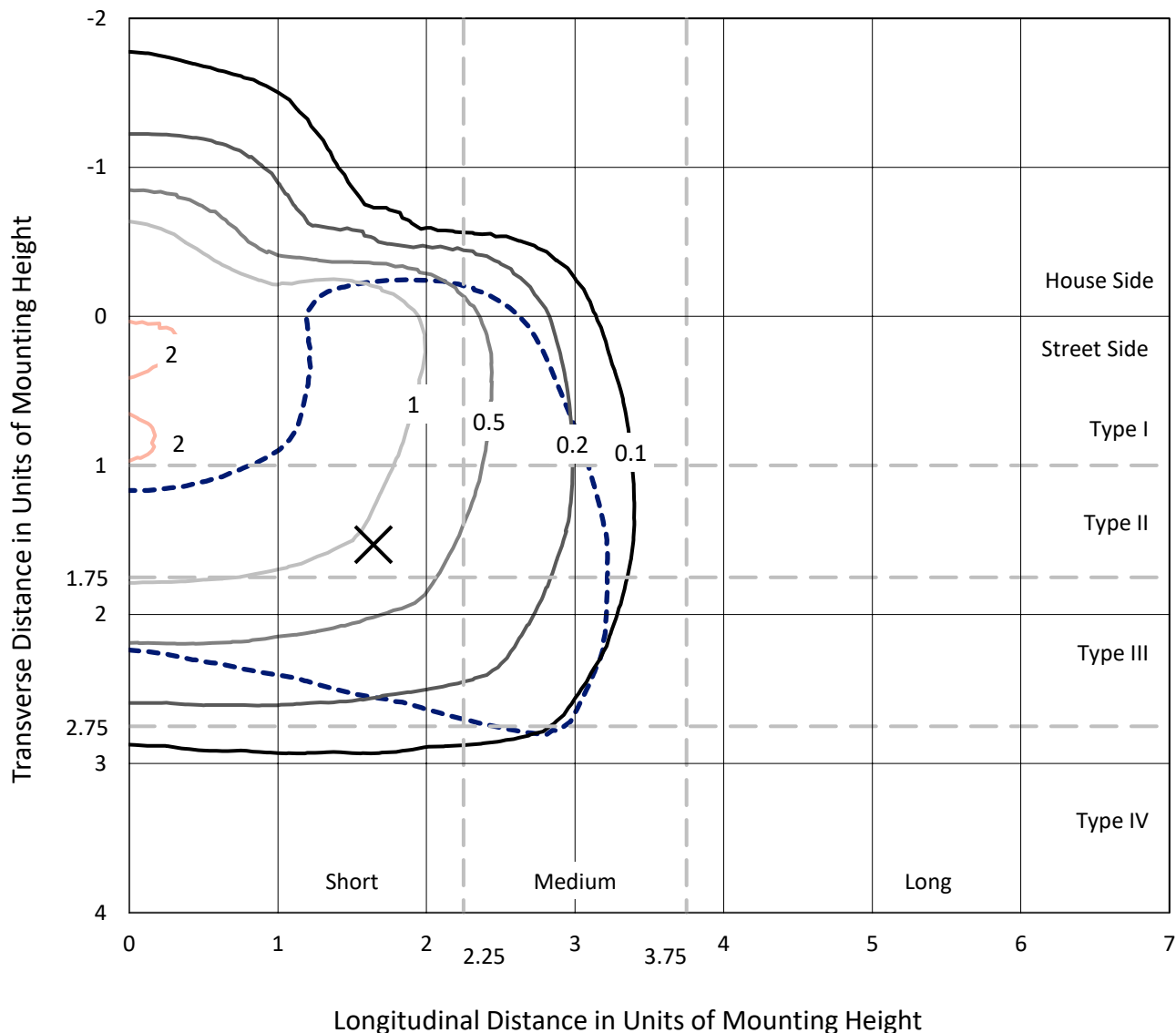
Input Watts (W): 131.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

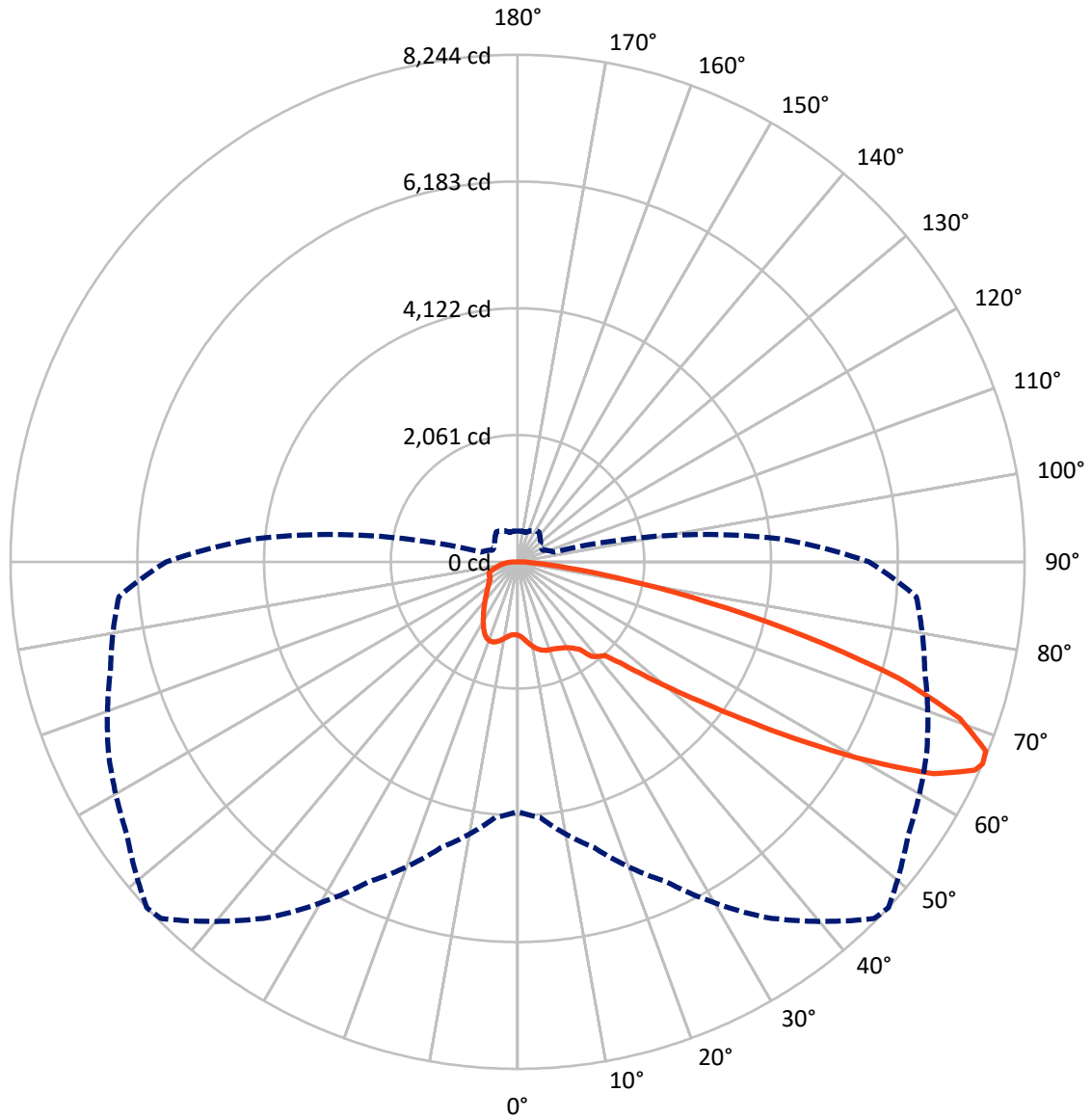
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 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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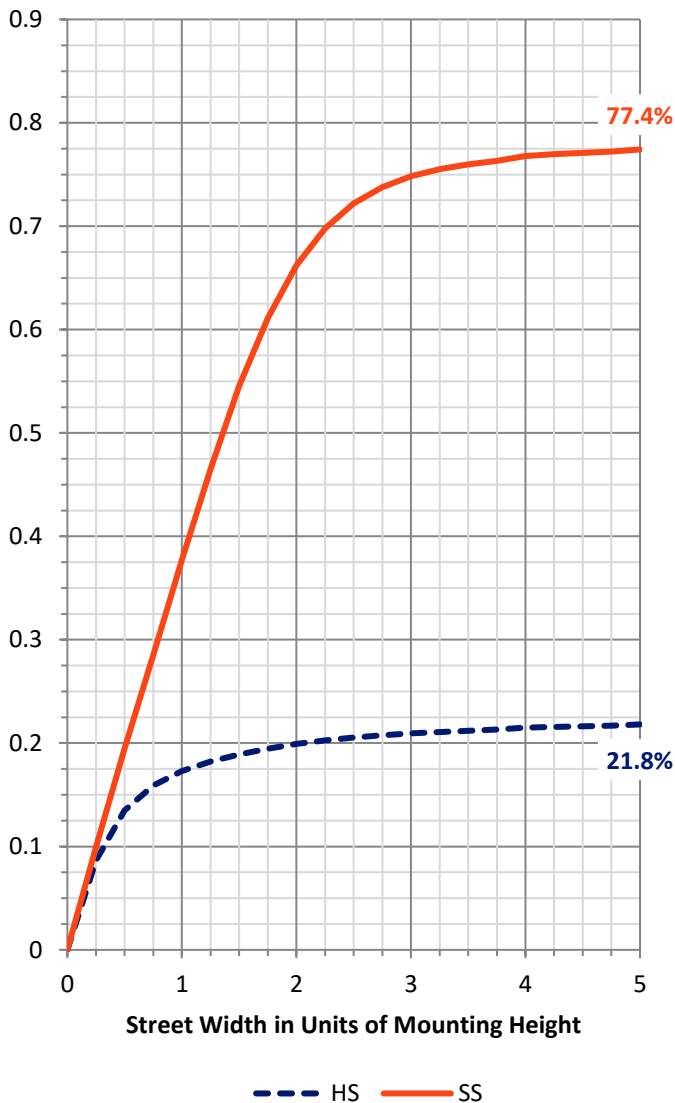
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2640.2	0.0	2640.2
	% Fixture	22.2	0.0	22.2
Street Side	Lumens	9234.8	0.0	9234.8
	% Fixture	77.8	0.0	77.8
Total	Lumens	11875.0	0.0	11875.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.5	1.0
10°-20°	398.6	3.4
20°-30°	664.7	5.6
30°-40°	965.3	8.1
40°-50°	1476.3	12.4
50°-60°	2790.6	23.5
60°-70°	3605.9	30.4
70°-80°	1620.8	13.6
80°-90°	231.2	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°	11875.0	100.0
0°-180°	11875.0	100.0



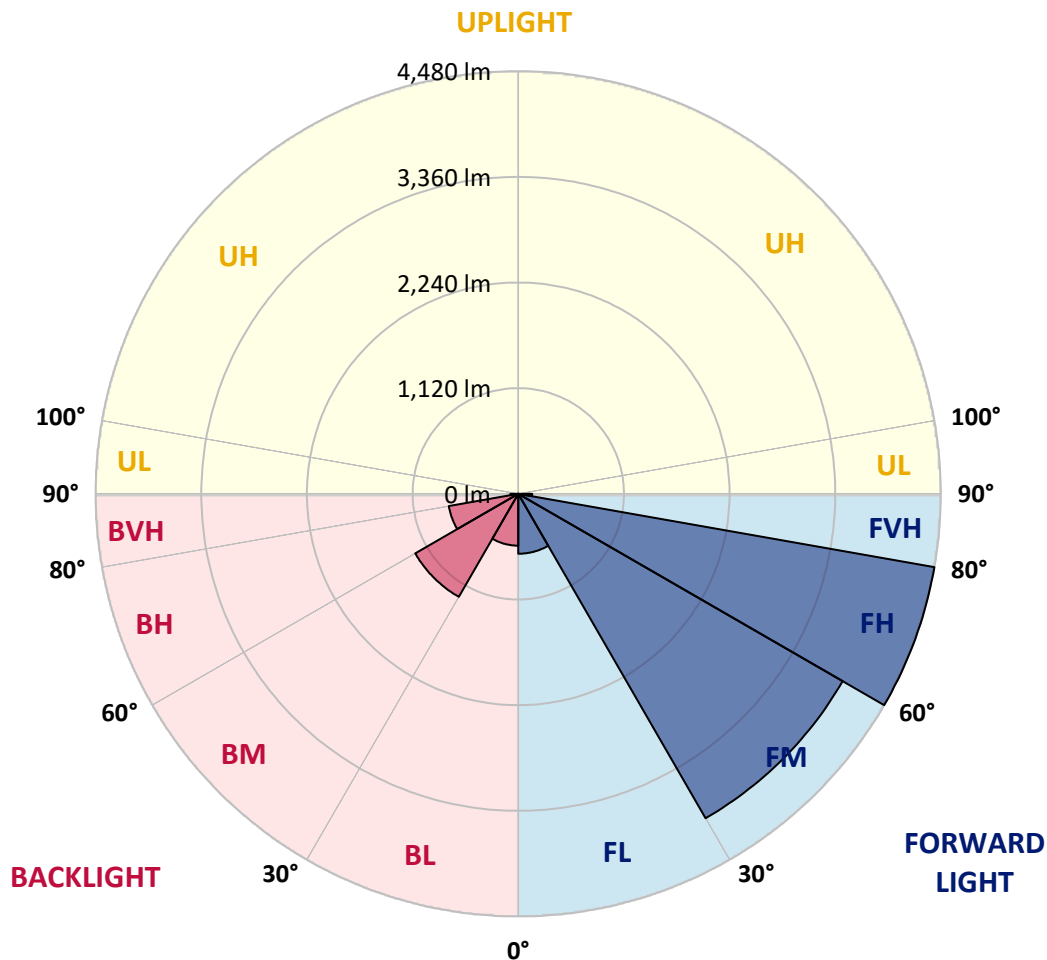
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	635.3	5.4			
FM	(30°-60°)	3971.2	33.4			
FH	(60°-80°)	4479.7	37.7			G2/5000
FVH	(80°-90°)	148.6	1.3			G2/225
BL	(0°-30°)	549.4	4.6	B2/1000		
BM	(30°-60°)	1261.1	10.6	B2/2500		
BH	(60°-80°)	747.0	6.3	B2/1000		G2/1000
BVH	(80°-90°)	82.6	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	1193.8	1193.8	1193.8	1193.8	1193.8	1193.8	1193.8	1193.8	1193.8	1193.8	1193.8
2.5°	1261.6	1251.9	1245.4	1242.2	1235.7	1222.8	1222.8	1219.6	1206.7	1200.3	1197.0
5°	1361.6	1355.1	1339.0	1326.1	1306.7	1280.9	1277.7	1258.3	1232.5	1213.2	1200.3
7.5°	1458.4	1451.9	1435.8	1416.4	1384.2	1351.9	1342.2	1316.4	1274.5	1245.4	1222.8
10°	1542.3	1532.6	1513.2	1487.4	1451.9	1416.4	1406.7	1377.7	1335.8	1293.8	1255.1
12.5°	1597.1	1590.7	1568.1	1535.8	1497.1	1461.6	1455.1	1429.3	1387.4	1342.2	1293.8
15°	1622.9	1619.7	1593.9	1561.6	1522.9	1493.9	1490.6	1468.0	1432.6	1387.4	1332.5
17.5°	1616.5	1613.2	1590.7	1558.4	1529.4	1513.2	1513.2	1497.1	1468.0	1429.3	1371.3
20°	1584.2	1584.2	1564.8	1542.3	1526.1	1522.9	1522.9	1519.7	1500.3	1468.0	1410.0
22.5°	1551.9	1551.9	1539.0	1522.9	1519.7	1532.6	1535.8	1542.3	1535.8	1510.0	1458.4
25°	1558.4	1555.2	1539.0	1519.7	1522.9	1551.9	1558.4	1574.5	1571.3	1551.9	1506.8
27.5°	1629.4	1626.1	1584.2	1545.5	1542.3	1577.8	1584.2	1606.8	1606.8	1590.7	1561.6
30°	1806.8	1813.3	1735.8	1639.1	1590.7	1613.2	1619.7	1645.5	1658.4	1664.9	1642.3
32.5°	2077.9	2068.2	1952.0	1793.9	1687.5	1664.9	1674.5	1697.1	1742.3	1755.2	1700.4
35°	2352.1	2358.6	2245.6	2045.6	1842.3	1758.4	1752.0	1784.2	1852.0	1793.9	1697.1
37.5°	2607.0	2597.3	2465.0	2248.9	2045.6	1948.8	1952.0	1939.1	1881.0	1764.9	1719.7
40°	2884.5	2858.7	2749.0	2471.5	2213.4	2052.0	2023.0	1913.3	1864.9	1816.5	1810.1
42.5°	3158.7	3162.0	3071.6	2797.4	2413.4	2126.3	2081.1	1968.2	2000.4	1990.7	1984.3
45°	3504.0	3504.0	3413.6	3158.7	2729.6	2403.7	2342.4	2206.9	2258.5	2297.3	2374.7
47.5°	3820.2	3800.8	3775.0	3558.8	3142.6	2765.1	2739.3	2584.4	2719.9	2839.3	2997.4
50°	4155.7	4129.9	4113.8	3981.5	3684.6	3313.6	3236.2	3074.8	3371.7	3594.3	3887.9
52.5°	4678.4	4633.2	4549.3	4475.1	4359.0	3929.9	3833.1	3713.7	4097.6	4378.3	4978.5
55°	5149.5	5110.7	5030.1	5084.9	5068.8	4678.4	4594.5	4481.6	4897.8	5239.8	5927.0
57.5°	5323.7	5326.9	5436.6	5730.2	5885.1	5659.3	5539.9	5426.9	5778.6	5936.7	6556.2
60°	5404.4	5394.7	5678.6	6156.1	6659.5	6727.2	6575.6	6343.3	6475.6	6485.2	7088.6
62.5°	5230.1	5255.9	5646.3	6333.6	7124.1	7611.3	7588.7	7182.2	7059.5	6924.0	7230.5
65°	4568.7	4604.2	5178.5	6017.4	7198.3	8146.9	8169.5	7695.2	7353.2	6975.7	6827.2
66°	4065.4	4171.8	4810.7	5743.1	7062.8	8201.7	8243.7	7750.0	7340.2	6853.0	6507.8
67.5°	3410.4	3403.9	4117.0	5139.8	6685.3	8153.3	8208.2	7672.6	7166.0	6491.7	5869.0
70°	2087.5	2152.1	2765.1	3836.3	5533.4	7550.0	7624.2	7127.3	6414.2	5497.9	4339.6
72.5°	1071.2	1177.7	1581.0	2494.1	4017.0	6240.0	6491.7	5985.1	5243.0	3978.3	2648.9
75°	567.9	561.4	745.3	1351.9	2565.1	4681.6	4813.9	4488.0	3623.3	2371.5	1348.7
77.5°	303.3	319.4	390.4	693.7	1410.0	2990.9	3158.7	2894.2	2064.9	1213.2	645.3
80°	206.5	216.2	264.6	390.4	764.7	1622.9	1777.8	1542.3	1080.9	574.3	303.3
82.5°	132.3	138.7	180.7	242.0	458.2	787.3	829.2	790.5	529.1	325.9	183.9
85°	80.7	83.9	109.7	154.9	287.2	319.4	332.3	335.6	296.8	212.9	100.0
87.5°	38.7	41.9	61.3	77.4	135.5	116.2	106.5	109.7	164.6	125.8	45.2
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°	1193.8	1193.8	1193.8	1193.8	1193.8	1193.8	1193.8	1193.8	1193.8	1193.8	1193.8
2.5°	1193.8	1190.6	1184.1	1180.9	1184.1	1184.1	1184.1	1187.3	1193.8	1193.8	1197.0
5°	1193.8	1187.3	1180.9	1180.9	1187.3	1193.8	1200.3	1213.2	1219.6	1222.8	1222.8
7.5°	1209.9	1203.5	1197.0	1197.0	1206.7	1219.6	1232.5	1248.6	1264.8	1277.7	1277.7
10°	1242.2	1232.5	1226.1	1229.3	1245.4	1261.6	1277.7	1297.0	1313.2	1329.3	1329.3
12.5°	1277.7	1268.0	1258.3	1264.8	1287.4	1306.7	1322.9	1332.5	1348.7	1361.6	1361.6
15°	1313.2	1297.0	1293.8	1306.7	1329.3	1342.2	1348.7	1348.7	1355.1	1368.0	1368.0
17.5°	1351.9	1335.8	1332.5	1345.4	1364.8	1364.8	1351.9	1342.2	1339.0	1348.7	1351.9
20°	1390.6	1374.5	1374.5	1384.2	1380.9	1358.3	1335.8	1319.6	1306.7	1316.4	1319.6
22.5°	1439.0	1422.9	1416.4	1403.5	1374.5	1329.3	1293.8	1274.5	1264.8	1271.2	1277.7
25°	1487.4	1474.5	1458.4	1413.2	1345.4	1274.5	1229.3	1213.2	1216.4	1229.3	1235.7
27.5°	1548.7	1542.3	1503.5	1406.7	1293.8	1197.0	1151.9	1148.6	1161.5	1180.9	1190.6
30°	1622.9	1613.2	1545.5	1387.4	1222.8	1106.7	1074.4	1080.9	1100.2	1116.4	1126.0
32.5°	1674.5	1668.1	1564.8	1342.2	1135.7	1026.0	1000.2	1000.2	1009.9	1032.5	1042.2
35°	1690.7	1716.5	1577.8	1274.5	1032.5	955.0	929.2	913.1	913.1	932.5	938.9
37.5°	1745.5	1803.6	1584.2	1184.1	948.6	890.5	858.2	829.2	819.5	816.3	816.3
40°	1871.4	1939.1	1581.0	1068.0	867.9	826.0	787.3	755.0	729.2	693.7	696.9
42.5°	2090.8	2142.4	1571.3	945.4	796.9	767.9	729.2	690.5	648.5	609.8	606.6
45°	2513.4	2436.0	1545.5	838.9	732.4	716.3	680.8	635.6	584.0	548.5	548.5
47.5°	3181.3	2968.4	1529.4	738.9	674.3	671.1	638.8	590.4	538.8	513.0	509.8
50°	4097.6	3704.0	1555.2	667.9	622.7	632.4	606.6	561.4	519.5	496.9	493.7
52.5°	5149.5	4494.5	1584.2	622.7	584.0	603.4	590.4	548.5	506.6	487.2	484.0
55°	5962.5	5136.6	1542.3	580.8	545.3	574.3	574.3	535.6	500.1	480.7	480.7
57.5°	6533.6	5394.7	1397.1	542.0	513.0	548.5	558.2	529.1	496.9	490.4	490.4
60°	6778.8	5381.8	1142.2	506.6	490.4	522.7	548.5	522.7	503.3	519.5	522.7
62.5°	6646.6	5101.1	887.3	480.7	474.3	516.2	558.2	548.5	525.9	538.8	545.3
65°	6049.7	4607.4	667.9	458.2	454.9	519.5	584.0	564.6	509.8	513.0	516.2
66°	5714.1	4275.1	613.0	451.7	448.5	522.7	596.9	558.2	496.9	503.3	500.1
67.5°	4997.8	3752.4	538.8	438.8	435.6	522.7	613.0	545.3	480.7	490.4	480.7
70°	3665.3	2655.4	461.4	422.7	416.2	513.0	609.8	519.5	445.3	438.8	422.7
72.5°	2126.3	1606.8	409.8	403.3	387.2	451.7	571.1	477.5	406.5	387.2	371.0
75°	1045.4	816.3	364.6	380.7	338.8	396.9	516.2	442.0	374.3	348.5	338.8
77.5°	480.7	413.0	329.1	348.5	300.1	342.0	471.1	403.3	332.3	293.6	283.9
80°	261.3	258.1	277.5	290.4	251.7	300.1	416.2	351.7	280.7	238.8	225.9
82.5°	161.3	164.6	203.3	222.6	196.8	261.3	367.8	293.6	212.9	167.8	171.0
85°	83.9	93.6	135.5	148.4	129.1	193.6	277.5	196.8	119.4	87.1	87.1
87.5°	29.0	38.7	67.8	80.7	71.0	116.2	174.2	93.6	25.8	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)