

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: P572795

Luminaire Tested: **ARCH-S-PA2-110-830-U-T4W**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P572795
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-PA2-110-830-U-T4W
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 80 CRI, 3000K, 1105mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11907 lumens
Efficiency: N/A
Efficacy: 104.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

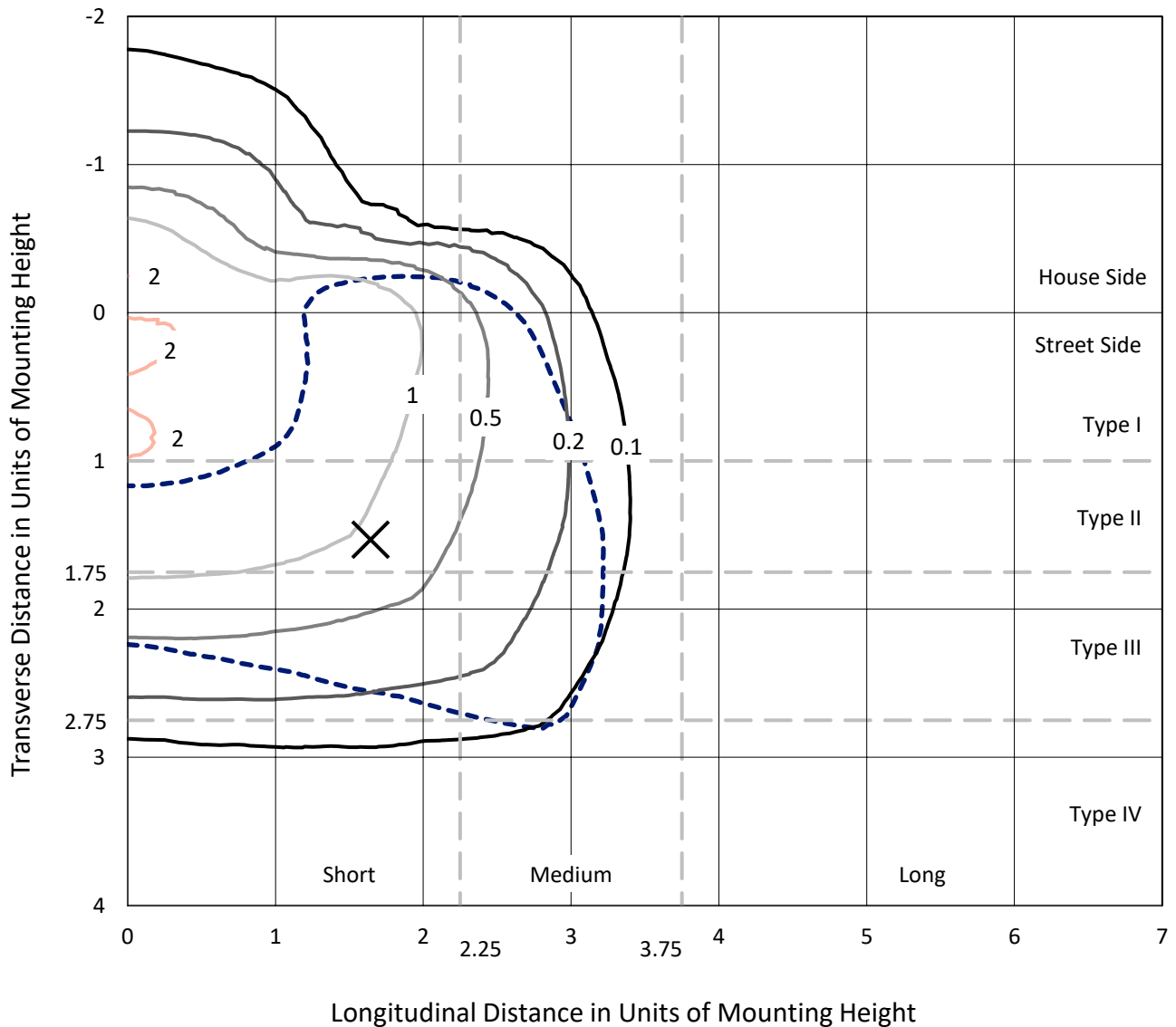
Input Watts (W): 114.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

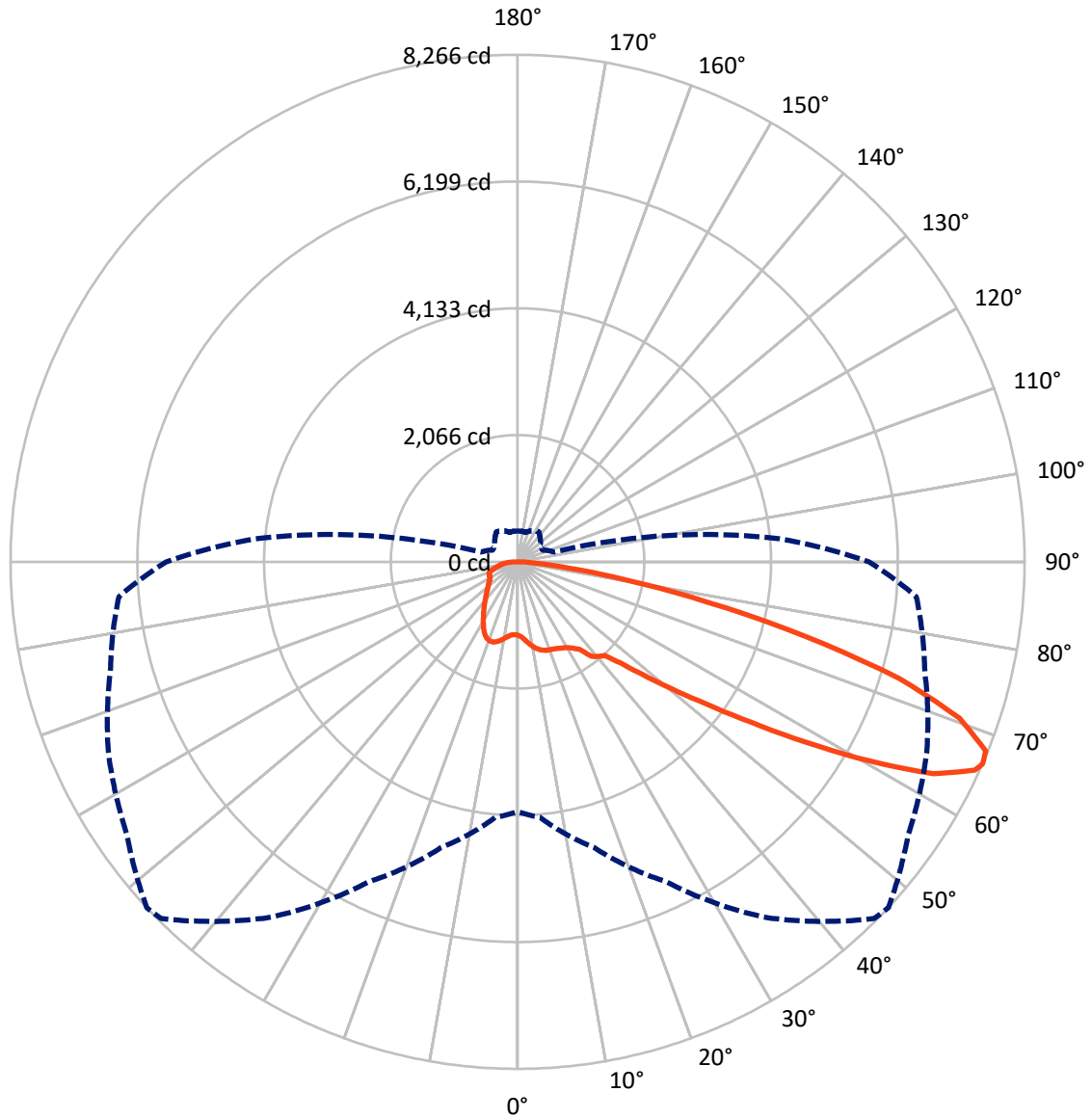
✕ Max cd
 - - - 1/2 Max cd



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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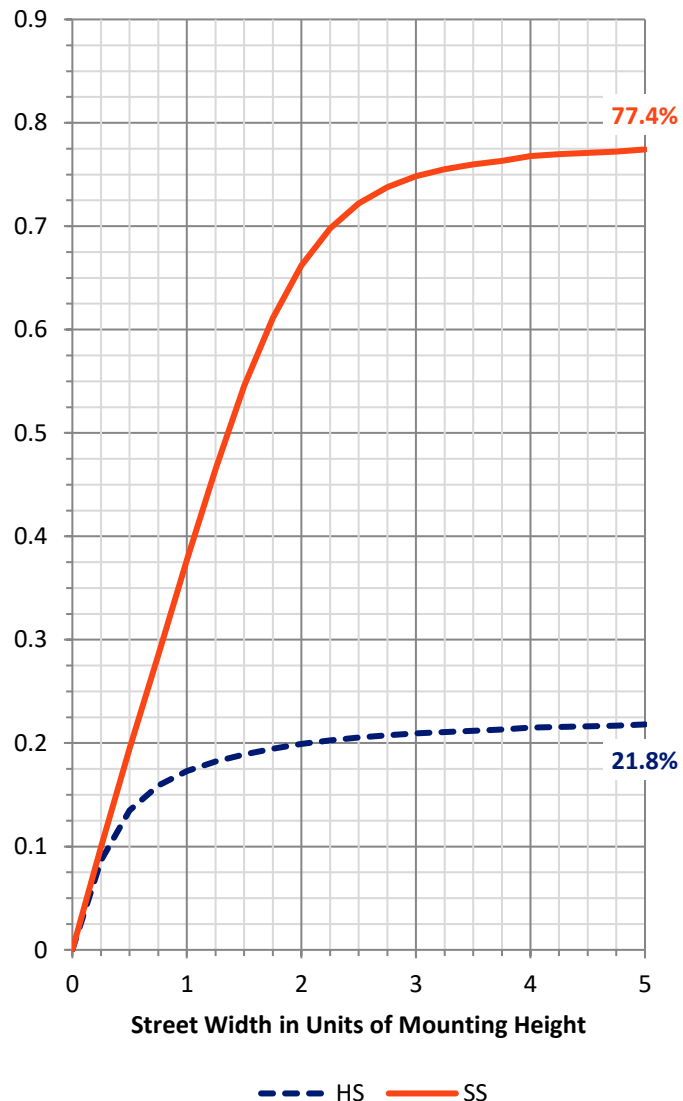
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2647.3	0.0	2647.3
	% Fixture	22.2	0.0	22.2
Street Side	Lumens	9259.7	0.0	9259.7
	% Fixture	77.8	0.0	77.8
Total	Lumens	11907.0	0.0	11907.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.8	1.0
10°-20°	399.7	3.4
20°-30°	666.5	5.6
30°-40°	967.9	8.1
40°-50°	1480.3	12.4
50°-60°	2798.2	23.5
60°-70°	3615.6	30.4
70°-80°	1625.2	13.6
80°-90°	231.8	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°	11907.0	100.0
0°-180°	11907.0	100.0

Coefficient of Utilization



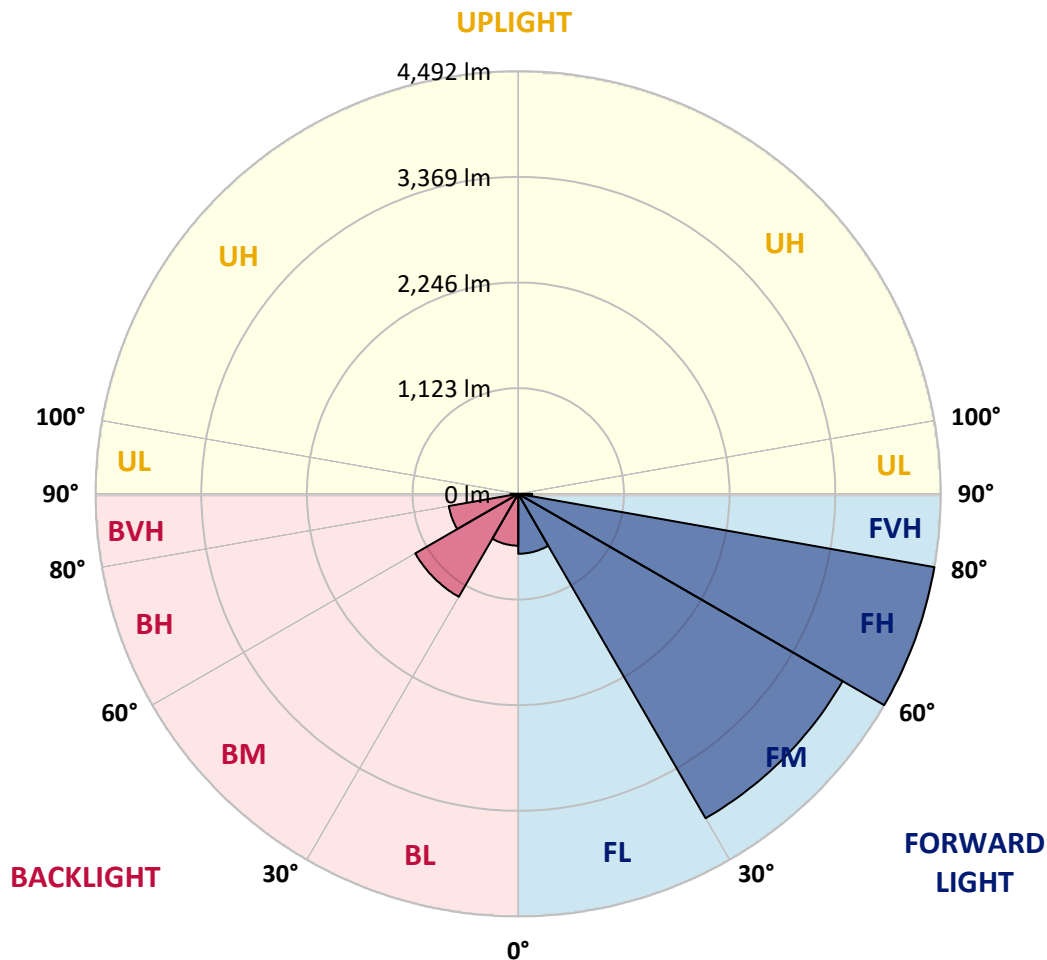
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	637.1	5.4			
FM	(30°-60°)	3981.9	33.4			
FH	(60°-80°)	4491.8	37.7			G2/5000
FVH	(80°-90°)	149.0	1.3			G2/225
BL	(0°-30°)	550.9	4.6	B2/1000		
BM	(30°-60°)	1264.5	10.6	B2/2500		
BH	(60°-80°)	749.0	6.3	B2/1000		G2/1000
BVH	(80°-90°)	82.9	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°	1197.0	1197.0	1197.0	1197.0	1197.0	1197.0	1197.0	1197.0	1197.0	1197.0	1197.0
2.5°	1265.0	1255.2	1248.8	1245.5	1239.1	1226.1	1226.1	1222.9	1210.0	1203.5	1200.3
5°	1365.2	1358.8	1342.6	1329.7	1310.2	1284.4	1281.1	1261.7	1235.8	1216.4	1203.5
7.5°	1462.3	1455.8	1439.7	1420.2	1387.9	1355.5	1345.8	1320.0	1277.9	1248.8	1226.1
10°	1546.4	1536.7	1517.3	1491.4	1455.8	1420.2	1410.5	1381.4	1339.4	1297.3	1258.5
12.5°	1601.4	1594.9	1572.3	1539.9	1501.1	1465.5	1459.1	1433.2	1391.1	1345.8	1297.3
15°	1627.3	1624.1	1598.2	1565.8	1527.0	1497.9	1494.7	1472.0	1436.4	1391.1	1336.1
17.5°	1620.8	1617.6	1594.9	1562.6	1533.5	1517.3	1517.3	1501.1	1472.0	1433.2	1375.0
20°	1588.5	1588.5	1569.1	1546.4	1530.2	1527.0	1527.0	1523.8	1504.4	1472.0	1413.8
22.5°	1556.1	1556.1	1543.2	1527.0	1523.8	1536.7	1539.9	1546.4	1539.9	1514.1	1462.3
25°	1562.6	1559.4	1543.2	1523.8	1527.0	1556.1	1562.6	1578.8	1575.5	1556.1	1510.8
27.5°	1633.8	1630.5	1588.5	1549.6	1546.4	1582.0	1588.5	1611.1	1611.1	1594.9	1565.8
30°	1811.7	1818.2	1740.5	1643.5	1594.9	1617.6	1624.1	1649.9	1662.9	1669.4	1646.7
32.5°	2083.5	2073.7	1957.3	1798.8	1692.0	1669.4	1679.1	1701.7	1747.0	1759.9	1704.9
35°	2358.4	2364.9	2251.7	2051.1	1847.3	1763.2	1756.7	1789.1	1857.0	1798.8	1701.7
37.5°	2614.0	2604.3	2471.7	2254.9	2051.1	1954.0	1957.3	1944.3	1886.1	1769.6	1724.3
40°	2892.2	2866.4	2756.4	2478.1	2219.3	2057.6	2028.5	1918.5	1869.9	1821.4	1814.9
42.5°	3167.2	3170.5	3079.9	2804.9	2419.9	2132.0	2086.7	1973.5	2005.8	1996.1	1989.6
45°	3513.4	3513.4	3422.8	3167.2	2737.0	2410.2	2348.7	2212.9	2264.6	2303.4	2381.1
47.5°	3830.4	3811.0	3785.2	3568.4	3151.1	2772.5	2746.7	2591.4	2727.3	2847.0	3005.5
50°	4166.9	4141.0	4124.9	3992.2	3694.6	3322.5	3244.9	3083.1	3380.8	3604.0	3898.4
52.5°	4691.0	4645.7	4561.6	4487.2	4370.7	3940.4	3843.4	3723.7	4108.7	4390.1	4991.9
55°	5163.3	5124.5	5043.6	5098.6	5082.5	4691.0	4606.9	4493.7	4911.0	5253.9	5943.0
57.5°	5338.0	5341.3	5451.3	5745.7	5901.0	5674.5	5554.8	5441.6	5794.2	5952.7	6573.9
60°	5418.9	5409.2	5693.9	6172.7	6677.4	6745.3	6593.3	6360.4	6493.0	6502.7	7107.7
62.5°	5244.2	5270.1	5661.6	6350.7	7143.3	7631.8	7609.1	7201.5	7078.6	6942.7	7250.0
65°	4581.0	4616.6	5192.5	6033.6	7217.7	8168.8	8191.5	7715.9	7373.0	6994.5	6845.6
66°	4076.3	4183.1	4823.6	5758.6	7081.8	8223.8	8265.9	7770.9	7360.0	6871.5	6525.4
67.5°	3419.6	3413.1	4128.1	5153.6	6703.3	8175.3	8230.3	7693.3	7185.3	6509.2	5884.8
70°	2093.2	2157.9	2772.5	3846.6	5548.3	7570.3	7644.7	7146.5	6431.5	5512.7	4351.3
72.5°	1074.1	1180.8	1585.2	2500.8	4027.8	6256.8	6509.2	6001.3	5257.2	3989.0	2656.1
75°	569.4	562.9	747.3	1355.5	2572.0	4694.2	4826.9	4500.1	3633.1	2377.9	1352.3
77.5°	304.1	320.3	391.5	695.6	1413.8	2999.0	3167.2	2902.0	2070.5	1216.4	647.0
80°	207.1	216.8	265.3	391.5	766.7	1627.3	1782.6	1546.4	1083.8	575.9	304.1
82.5°	132.6	139.1	181.2	242.6	459.4	789.4	831.4	792.6	530.6	326.8	184.4
85°	80.9	84.1	110.0	155.3	287.9	320.3	333.2	336.5	297.6	213.5	100.3
87.5°	38.8	42.1	61.5	77.6	135.9	116.5	106.8	110.0	165.0	126.2	45.3
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°	1197.0	1197.0	1197.0	1197.0	1197.0	1197.0	1197.0	1197.0	1197.0	1197.0	1197.0
2.5°	1197.0	1193.8	1187.3	1184.1	1187.3	1187.3	1187.3	1190.5	1197.0	1197.0	1200.3
5°	1197.0	1190.5	1184.1	1184.1	1190.5	1197.0	1203.5	1216.4	1222.9	1226.1	1226.1
7.5°	1213.2	1206.7	1200.3	1200.3	1210.0	1222.9	1235.8	1252.0	1268.2	1281.1	1281.1
10°	1245.5	1235.8	1229.4	1232.6	1248.8	1265.0	1281.1	1300.5	1316.7	1332.9	1332.9
12.5°	1281.1	1271.4	1261.7	1268.2	1290.8	1310.2	1326.4	1336.1	1352.3	1365.2	1365.2
15°	1316.7	1300.5	1297.3	1310.2	1332.9	1345.8	1352.3	1352.3	1358.8	1371.7	1371.7
17.5°	1355.5	1339.4	1336.1	1349.1	1368.5	1368.5	1355.5	1345.8	1342.6	1352.3	1355.5
20°	1394.4	1378.2	1378.2	1387.9	1384.7	1362.0	1339.4	1323.2	1310.2	1320.0	1323.2
22.5°	1442.9	1426.7	1420.2	1407.3	1378.2	1332.9	1297.3	1277.9	1268.2	1274.7	1281.1
25°	1491.4	1478.5	1462.3	1417.0	1349.1	1277.9	1232.6	1216.4	1219.7	1232.6	1239.1
27.5°	1552.9	1546.4	1507.6	1410.5	1297.3	1200.3	1155.0	1151.7	1164.7	1184.1	1193.8
30°	1627.3	1617.6	1549.6	1391.1	1226.1	1109.7	1077.3	1083.8	1103.2	1119.4	1129.1
32.5°	1679.1	1672.6	1569.1	1345.8	1138.8	1028.8	1002.9	1002.9	1012.6	1035.3	1045.0
35°	1695.2	1721.1	1582.0	1277.9	1035.3	957.6	931.7	915.6	915.6	935.0	941.4
37.5°	1750.2	1808.5	1588.5	1187.3	951.1	892.9	860.6	831.4	821.7	818.5	818.5
40°	1876.4	1944.3	1585.2	1070.8	870.3	828.2	789.4	757.0	731.2	695.6	698.8
42.5°	2096.4	2148.2	1575.5	947.9	799.1	770.0	731.2	692.3	650.3	611.4	608.2
45°	2520.2	2442.6	1549.6	841.1	734.4	718.2	682.6	637.3	585.6	550.0	550.0
47.5°	3189.9	2976.4	1533.5	740.9	676.2	672.9	640.6	592.0	540.3	514.4	511.2
50°	4108.7	3714.0	1559.4	669.7	624.4	634.1	608.2	562.9	520.9	498.2	495.0
52.5°	5163.3	4506.6	1588.5	624.4	585.6	605.0	592.0	550.0	507.9	488.5	485.3
55°	5978.6	5150.4	1546.4	582.3	546.7	575.9	575.9	537.0	501.5	482.0	482.0
57.5°	6551.2	5409.2	1400.8	543.5	514.4	550.0	559.7	530.6	498.2	491.7	491.7
60°	6797.1	5396.3	1145.3	507.9	491.7	524.1	550.0	524.1	504.7	520.9	524.1
62.5°	6664.5	5114.8	889.7	482.0	475.6	517.6	559.7	550.0	527.3	540.3	546.7
65°	6066.0	4619.8	669.7	459.4	456.2	520.9	585.6	566.2	511.2	514.4	517.6
66°	5729.5	4286.6	614.7	452.9	449.7	524.1	598.5	559.7	498.2	504.7	501.5
67.5°	5011.3	3762.5	540.3	440.0	436.7	524.1	614.7	546.7	482.0	491.7	482.0
70°	3675.2	2662.6	462.6	423.8	417.3	514.4	611.4	520.9	446.5	440.0	423.8
72.5°	2132.0	1611.1	410.9	404.4	388.2	452.9	572.6	478.8	407.6	388.2	372.0
75°	1048.2	818.5	365.6	381.8	339.7	397.9	517.6	443.2	375.3	349.4	339.7
77.5°	482.0	414.1	330.0	349.4	300.9	342.9	472.3	404.4	333.2	294.4	284.7
80°	262.0	258.8	278.2	291.2	252.3	300.9	417.3	352.6	281.5	239.4	226.5
82.5°	161.8	165.0	203.8	223.2	197.3	262.0	368.8	294.4	213.5	168.2	171.5
85°	84.1	93.8	135.9	148.8	129.4	194.1	278.2	197.3	119.7	87.3	87.3
87.5°	29.1	38.8	67.9	80.9	71.2	116.5	174.7	93.8	25.9	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)