

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: P572924

Luminaire Tested: **ARCH-S-PA2-130-750-U-T2R**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P572924
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2108-332-13)
Test Lab: INNOVATION CENTER
Issue Date: 10/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-S-PA2-130-750-U-T2R
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 1295mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16268 lumens
Efficiency: N/A
Efficacy: 123.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

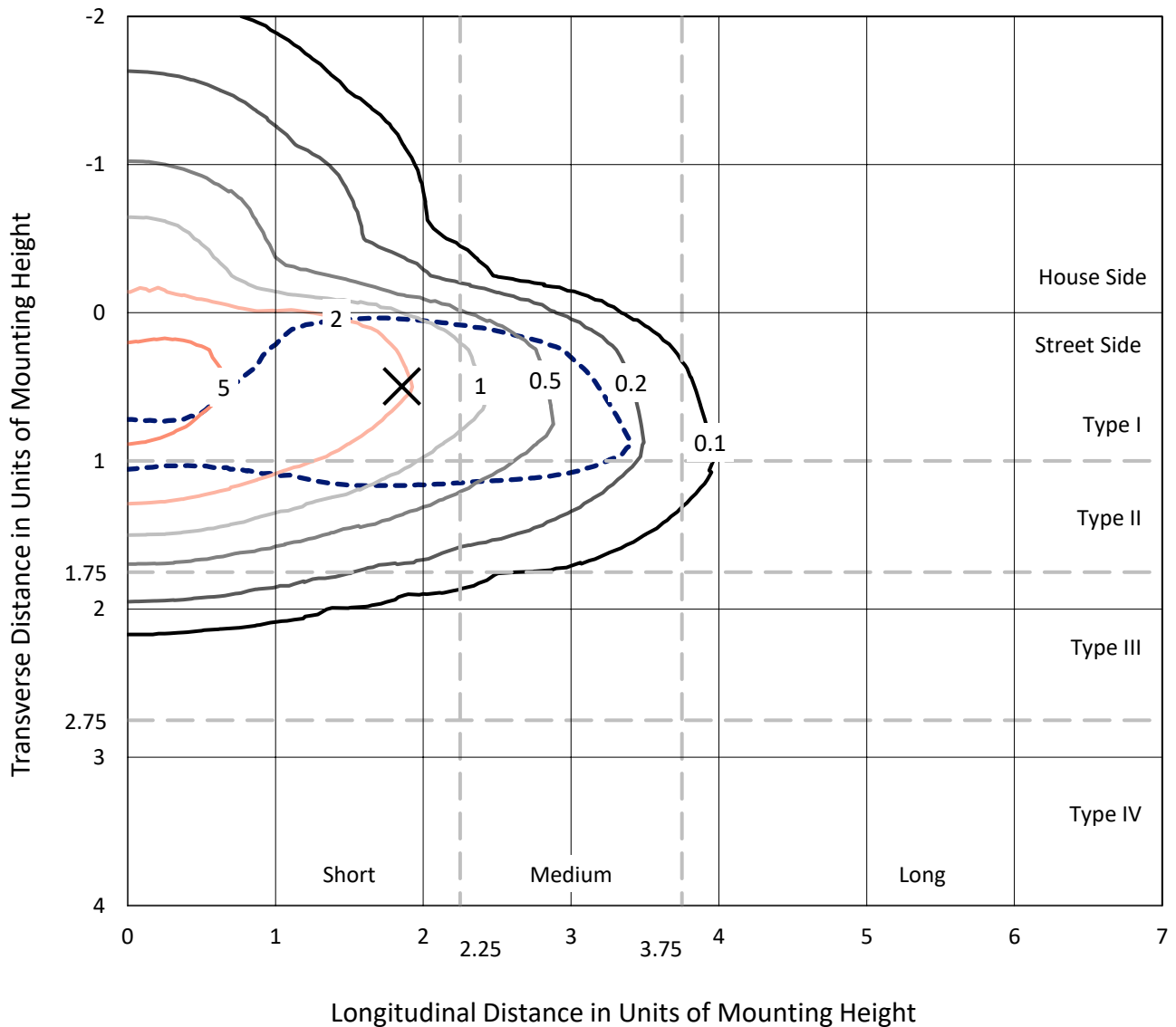
Input Watts (W): 131.7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

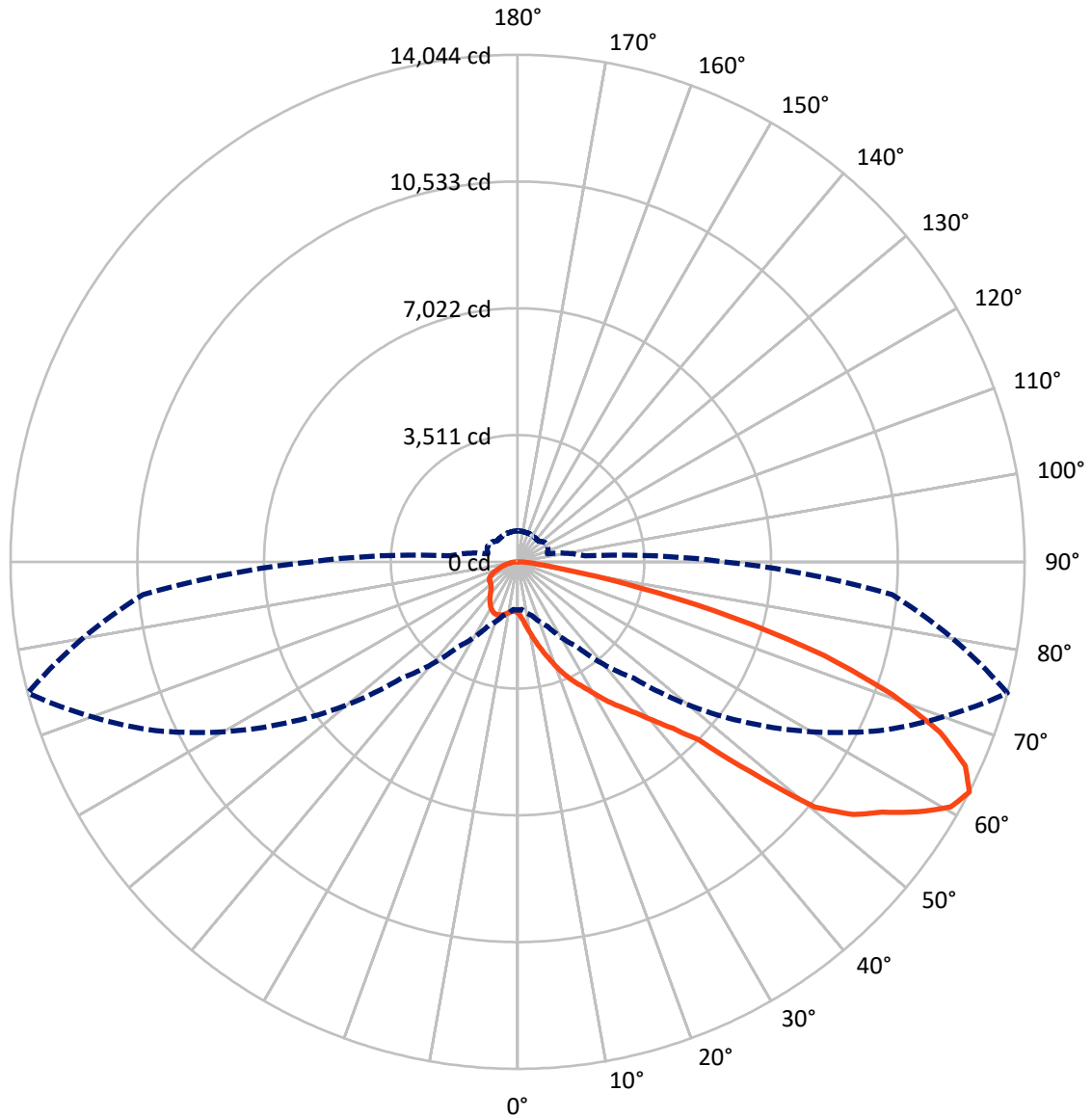
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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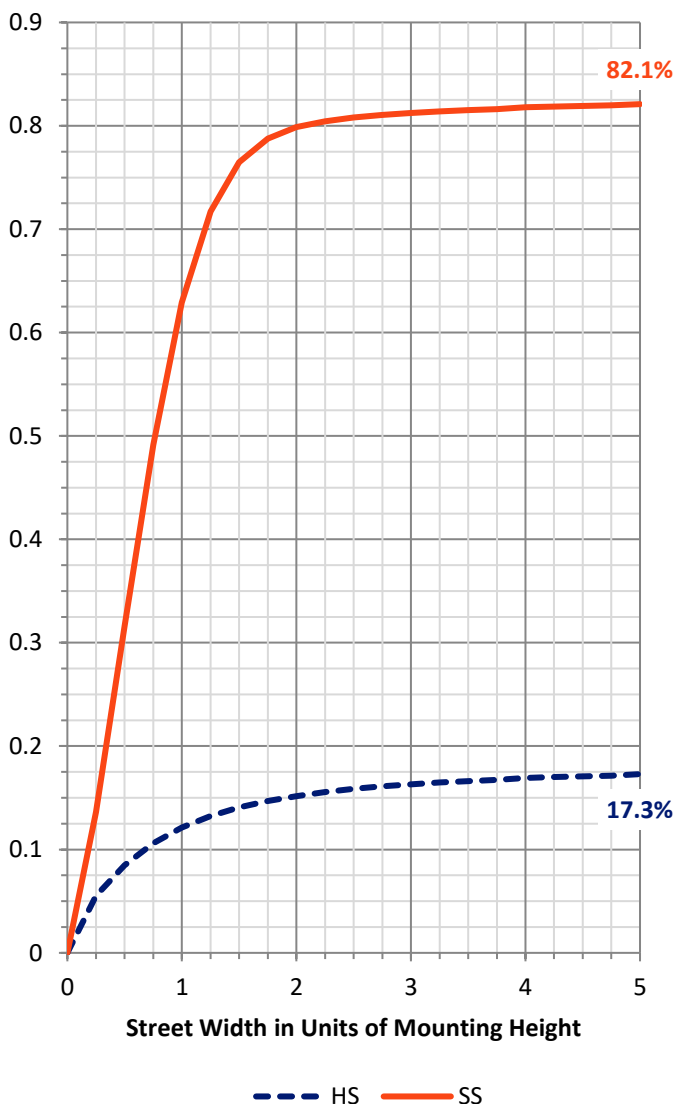
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2869.2	0.0	2869.2
	% Fixture	17.6	0.0	17.6
Street Side	Lumens	13398.8	0.0	13398.8
	% Fixture	82.4	0.0	82.4
Total	Lumens	16268.0	0.0	16268.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	170.4	1.0
10°-20°	673.2	4.1
20°-30°	1331.8	8.2
30°-40°	2219.9	13.6
40°-50°	3275.7	20.1
50°-60°	3937.7	24.2
60°-70°	3060.4	18.8
70°-80°	1353.9	8.3
80°-90°	245.1	1.5
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°	16268.0	100.0
0°-180°	16268.0	100.0

Coefficient of Utilization



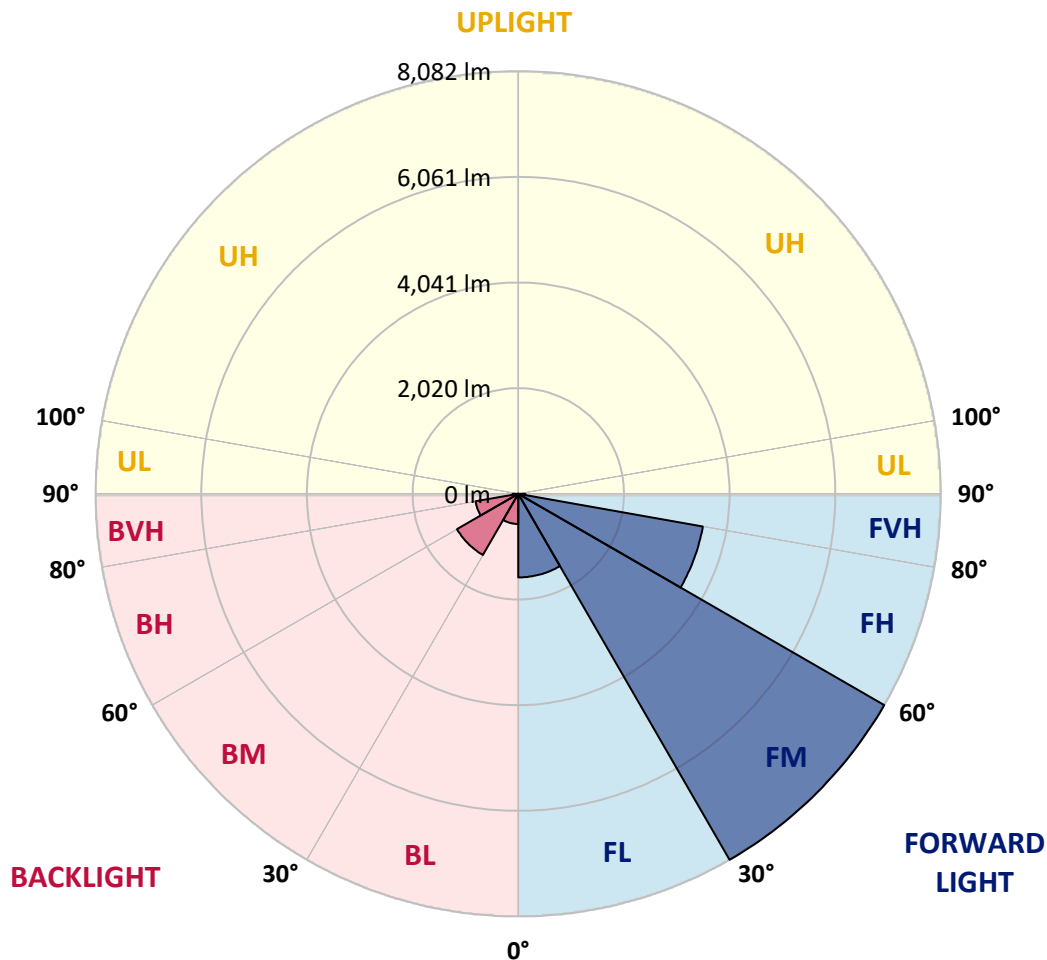
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1597.9	9.8			
FM (30°-60°)	8082.0	49.7			
FH (60°-80°)	3584.2	22.0			G2/5000
FVH (80°-90°)	134.7	0.8			G2/225
BL (0°-30°)	577.3	3.5	B2/1000		
BM (30°-60°)	1351.4	8.3	B2/2500		
BH (60°-80°)	830.1	5.1	B2/1000		G2/1000
BVH (80°-90°)	110.4	0.7			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1418.0	1418.0	1418.0	1418.0	1418.0	1418.0	1418.0	1418.0	1418.0	1418.0	1418.0
2.5°	1813.1	1760.5	1760.5	1703.4	1707.8	1659.5	1606.8	1554.1	1497.1	1453.1	1431.2
5°	2370.7	2331.2	2318.0	2252.2	2146.8	2028.3	1900.9	1769.2	1633.1	1527.8	1475.1
7.5°	2893.1	2862.4	2844.8	2770.2	2625.3	2498.0	2296.1	2054.6	1821.9	1624.4	1545.3
10°	3279.5	3257.5	3222.4	3187.3	3081.9	2972.2	2721.9	2379.5	2037.0	1742.9	1624.4
12.5°	3560.4	3529.7	3529.7	3525.3	3455.1	3354.1	3121.4	2752.6	2287.3	1874.6	1712.2
15°	3749.2	3744.8	3758.0	3784.3	3766.8	3700.9	3468.2	3095.1	2541.9	2023.9	1813.1
17.5°	3889.7	3872.1	3898.5	3968.7	4021.4	3995.1	3801.9	3424.3	2822.9	2186.3	1922.9
20°	4043.4	4008.2	4043.4	4131.2	4197.0	4236.5	4144.3	3740.4	3125.8	2361.9	2028.3
22.5°	4337.5	4333.1	4315.5	4341.9	4385.8	4456.0	4403.4	4060.9	3420.0	2537.5	2151.2
25°	4864.3	4816.0	4767.7	4710.7	4662.4	4684.3	4640.4	4359.4	3687.8	2730.7	2256.6
27.5°	5452.6	5399.9	5312.1	5171.6	5039.9	4960.9	4868.7	4618.5	3946.8	2906.3	2357.5
30°	5992.6	5975.0	5843.3	5689.7	5461.4	5316.5	5140.9	4917.0	4258.5	3099.5	2462.9
32.5°	6497.5	6462.3	6330.6	6168.2	5900.4	5738.0	5496.5	5241.9	4614.1	3336.5	2572.6
35°	6932.1	6897.0	6743.3	6537.0	6304.3	6163.8	5887.2	5531.6	4939.0	3542.9	2664.8
37.5°	7261.4	7221.8	7077.0	6875.0	6668.7	6602.8	6365.8	5900.4	5307.7	3801.9	2779.0
40°	7445.7	7397.5	7300.9	7160.4	6989.2	6958.4	6857.5	6357.0	5773.1	4118.0	2945.8
42.5°	7467.7	7423.8	7371.1	7357.9	7344.8	7371.1	7419.4	6875.0	6304.3	4539.4	3191.7
45°	7274.5	7248.2	7252.6	7401.8	7608.2	7849.6	8139.4	7638.9	7019.9	5342.9	3744.8
47.5°	6861.9	6848.7	6945.3	7195.5	7656.5	8205.2	9026.2	8947.2	8714.5	6638.0	4456.0
50°	6194.5	6172.6	6378.9	6774.0	7432.6	8323.8	9623.3	10488.1	10681.3	7643.3	4921.4
52.5°	5237.5	5263.8	5584.3	6124.3	6918.9	8196.5	9869.1	11120.3	11629.6	8385.2	5277.0
55°	4258.5	4219.0	4508.7	5176.0	6159.4	7731.1	9917.4	11484.7	12244.2	9070.1	5623.8
57.5°	3103.9	3200.4	3507.8	4113.6	5180.4	6888.2	9636.4	11735.0	13069.6	9755.0	5944.3
60°	2102.9	2102.9	2375.1	2980.9	4003.8	5865.3	8885.7	11642.8	13789.6	10290.6	6014.5
62.5°	1339.0	1325.8	1545.3	1975.6	2866.8	4557.0	7761.8	11063.3	14044.2	10417.9	5720.4
65°	847.3	864.9	943.9	1207.3	1835.1	3235.6	6229.7	9908.6	13627.1	10123.8	5206.8
67.5°	680.5	684.9	724.4	834.1	1128.3	2076.6	4618.5	8315.0	12630.6	9381.8	4605.3
70°	601.5	610.2	619.0	658.5	772.7	1312.7	3033.6	6695.0	10997.4	8091.1	3959.9
72.5°	548.8	557.6	566.3	575.1	636.6	856.1	1791.2	5075.0	8872.6	6216.5	3020.4
75°	504.9	513.7	513.7	518.0	553.2	636.6	983.4	3499.0	6177.0	3867.7	1883.4
77.5°	452.2	456.6	456.6	465.4	500.5	500.5	610.2	2164.4	3428.7	1751.7	952.7
80°	381.9	390.7	390.7	403.9	439.0	386.3	408.3	1106.3	1422.4	720.0	425.8
82.5°	281.0	298.5	307.3	329.3	351.2	294.1	294.1	557.6	601.5	320.5	228.3
85°	153.7	158.0	228.3	245.9	259.0	175.6	197.6	276.6	298.5	140.5	114.1
87.5°	43.9	48.3	109.8	136.1	122.9	74.6	83.4	105.4	105.4	39.5	30.7
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1418.0	1418.0	1418.0	1418.0	1418.0	1418.0	1418.0	1418.0	1418.0	1418.0
2.5°	1413.6	1378.5	1347.8	1325.8	1303.9	1290.7	1286.3	1277.5	1277.5	1281.9
5°	1431.2	1369.7	1321.4	1295.1	1277.5	1268.8	1264.4	1264.4	1268.8	1268.8
7.5°	1475.1	1382.9	1339.0	1317.1	1299.5	1290.7	1290.7	1286.3	1290.7	1290.7
10°	1536.6	1422.4	1374.1	1347.8	1334.6	1321.4	1317.1	1312.7	1312.7	1312.7
12.5°	1602.4	1466.3	1413.6	1382.9	1361.0	1343.4	1334.6	1325.8	1321.4	1321.4
15°	1663.9	1510.2	1440.0	1404.9	1374.1	1347.8	1330.2	1317.1	1312.7	1312.7
17.5°	1729.7	1541.0	1457.5	1409.2	1369.7	1334.6	1312.7	1295.1	1286.3	1286.3
20°	1800.0	1562.9	1457.5	1396.1	1343.4	1308.3	1281.9	1264.4	1246.8	1246.8
22.5°	1857.0	1571.7	1440.0	1365.3	1312.7	1268.8	1242.4	1220.5	1207.3	1207.3
25°	1905.3	1562.9	1400.5	1317.1	1255.6	1216.1	1189.7	1172.2	1159.0	1159.0
27.5°	1936.1	1527.8	1352.2	1264.4	1207.3	1167.8	1150.2	1132.7	1123.9	1123.9
30°	1953.6	1483.9	1290.7	1207.3	1150.2	1128.3	1119.5	1101.9	1088.8	1084.4
32.5°	1962.4	1418.0	1229.3	1150.2	1110.7	1101.9	1101.9	1080.0	1062.4	1058.0
35°	1953.6	1347.8	1167.8	1101.9	1088.8	1093.2	1084.4	1058.0	1036.1	1027.3
37.5°	1940.5	1264.4	1101.9	1066.8	1080.0	1088.8	1062.4	1027.3	992.2	983.4
40°	1931.7	1189.7	1049.3	1031.7	1071.2	1075.6	1027.3	961.4	935.1	926.3
42.5°	1975.6	1115.1	1001.0	1005.4	1049.3	1053.6	965.8	935.1	917.5	913.2
45°	2124.8	1049.3	961.4	987.8	1022.9	1005.4	935.1	930.7	917.5	913.2
47.5°	2239.0	1001.0	943.9	974.6	1001.0	939.5	930.7	926.3	913.2	908.8
50°	2278.5	970.2	939.5	965.8	970.2	908.8	921.9	921.9	908.8	904.4
52.5°	2282.9	952.7	948.3	961.4	921.9	895.6	913.2	913.2	900.0	895.6
55°	2300.5	943.9	952.7	961.4	869.3	878.0	895.6	900.0	886.8	882.4
57.5°	2265.3	930.7	961.4	965.8	847.3	860.5	878.0	878.0	878.0	878.0
60°	2129.2	904.4	957.1	957.1	829.7	838.5	856.1	864.9	869.3	869.3
62.5°	1879.0	851.7	930.7	930.7	812.2	821.0	842.9	842.9	856.1	856.1
65°	1562.9	777.1	878.0	873.6	794.6	803.4	829.7	821.0	842.9	847.3
67.5°	1303.9	684.9	799.0	807.8	777.1	799.0	816.6	785.8	829.7	829.7
70°	1040.5	575.1	693.6	733.2	746.3	803.4	790.2	741.9	799.0	785.8
72.5°	807.8	487.3	570.7	641.0	711.2	799.0	733.2	680.5	715.6	693.6
75°	588.3	403.9	469.7	531.2	662.9	785.8	676.1	597.1	597.1	588.3
77.5°	412.7	329.3	377.6	421.5	614.6	750.7	605.8	513.7	491.7	487.3
80°	281.0	259.0	298.5	324.9	544.4	680.5	522.4	425.8	386.3	377.6
82.5°	184.4	184.4	201.9	219.5	421.5	566.3	408.3	316.1	408.3	390.7
85°	105.4	109.8	109.8	127.3	232.7	399.5	289.8	316.1	188.8	175.6
87.5°	35.1	35.1	35.1	35.1	48.3	162.4	122.9	114.1	43.9	39.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)