

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: P572753

Luminaire Tested: **ARCH-S-PA2-110-740-U-T2R**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P572753
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-PA2-110-740-U-T2R
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 1105mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15091 lumens
Efficiency: N/A
Efficacy: 132.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

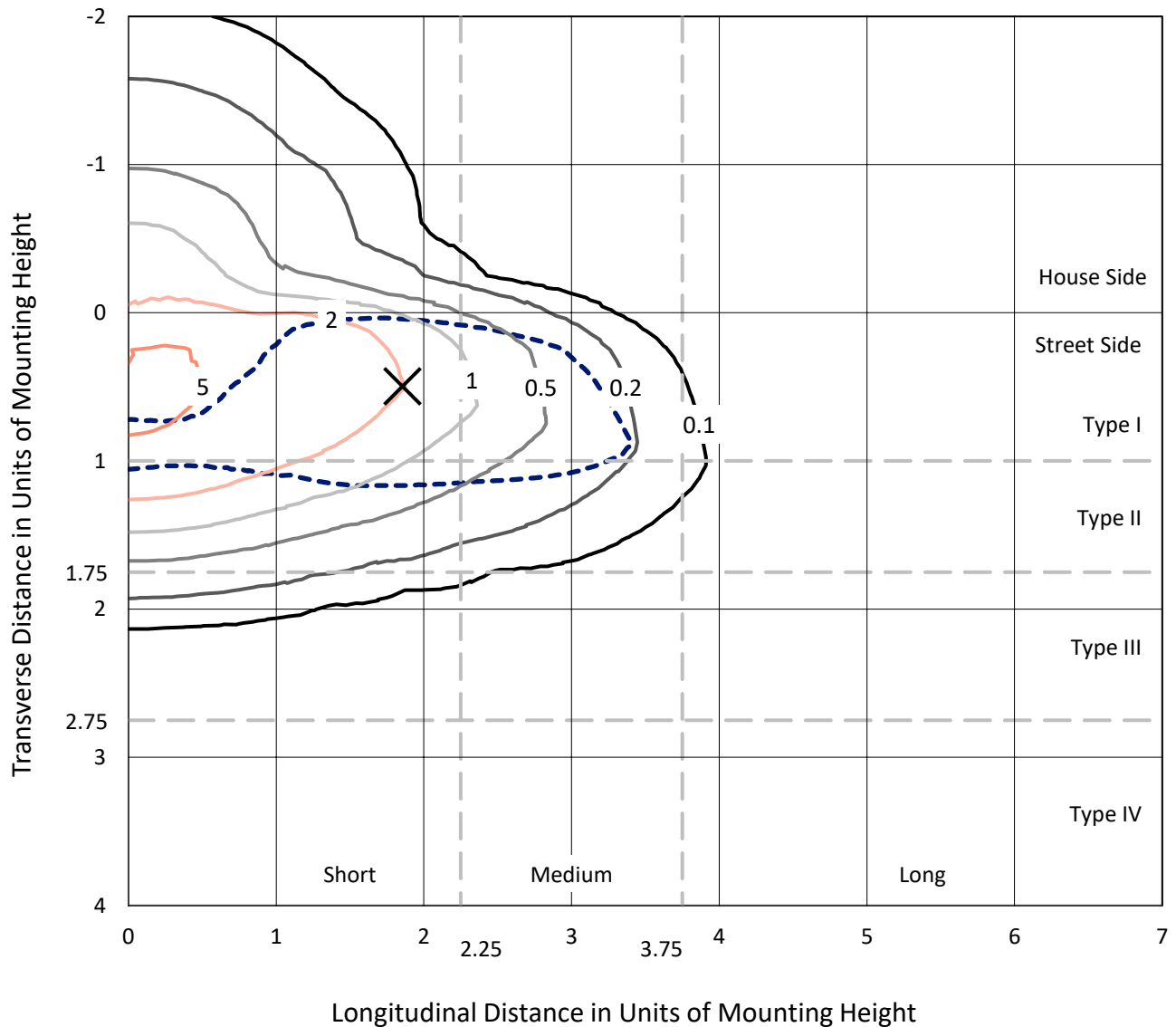
Input Watts (W): 114.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

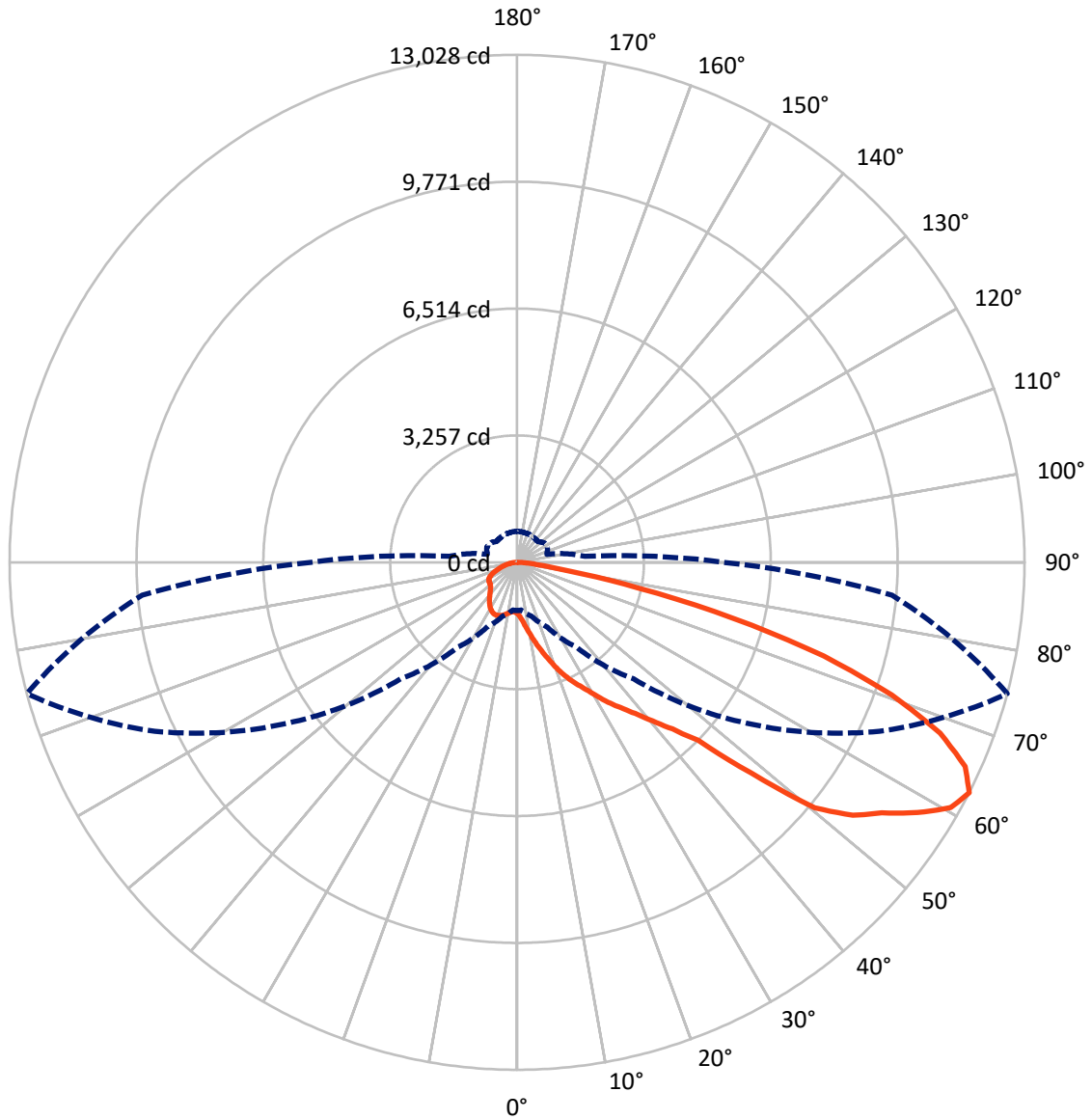
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 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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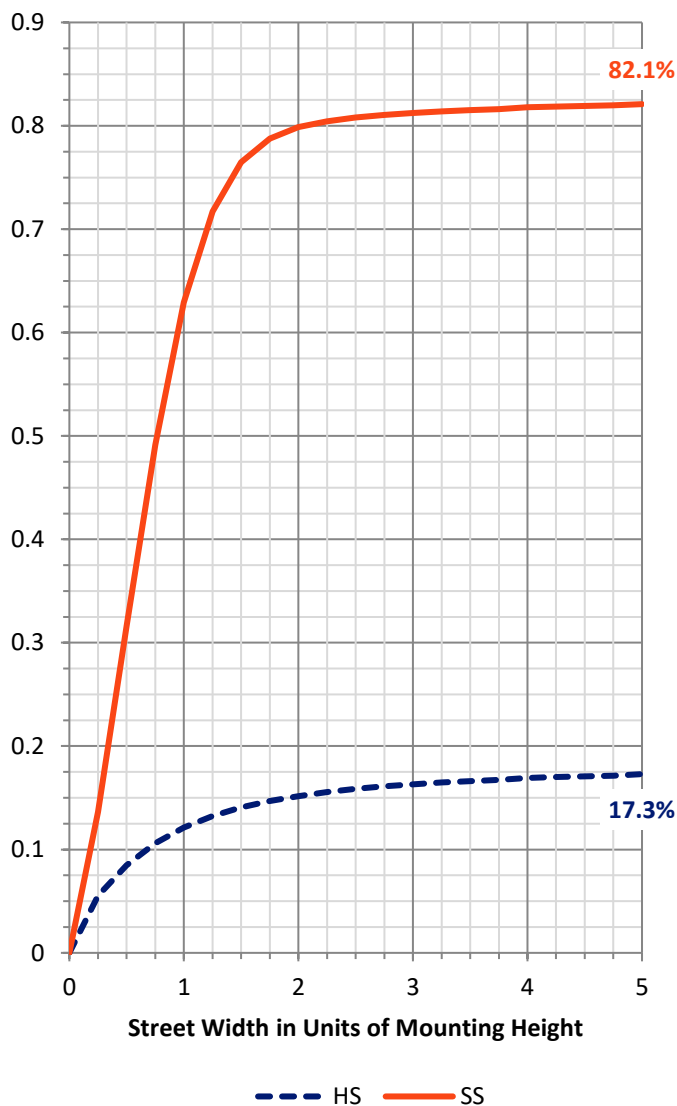
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2661.6	0.0	2661.6
	% Fixture	17.6	0.0	17.6
Street Side	Lumens	12429.4	0.0	12429.4
	% Fixture	82.4	0.0	82.4
Total	Lumens	15091.0	0.0	15091.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	158.0	1.0
10°-20°	624.5	4.1
20°-30°	1235.4	8.2
30°-40°	2059.3	13.6
40°-50°	3038.7	20.1
50°-60°	3652.8	24.2
60°-70°	2839.0	18.8
70°-80°	1255.9	8.3
80°-90°	227.4	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°	15091.0	100.0
0°-180°	15091.0	100.0

Coefficient of Utilization



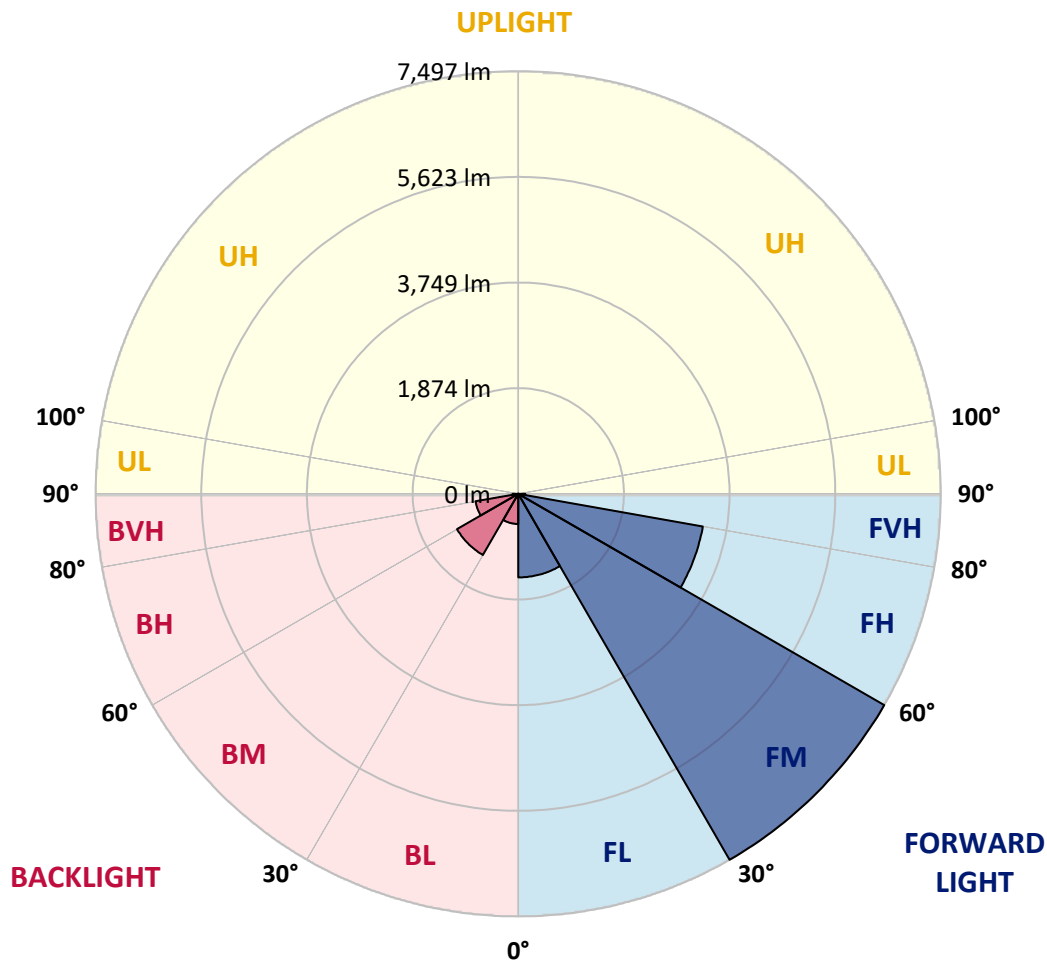
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1482.3	9.8			
FM (30°-60°)	7497.2	49.7			
FH (60°-80°)	3324.8	22.0			G2/5000
FVH (80°-90°)	125.0	0.8			G2/225
BL (0°-30°)	535.6	3.5	B2/1000		
BM (30°-60°)	1253.6	8.3	B2/2500		
BH (60°-80°)	770.1	5.1	B2/1000		G2/1000
BVH (80°-90°)	102.4	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°	1315.4	1315.4	1315.4	1315.4	1315.4	1315.4	1315.4	1315.4	1315.4	1315.4	1315.4
2.5°	1682.0	1633.1	1633.1	1580.1	1584.2	1539.4	1490.6	1441.7	1388.7	1348.0	1327.7
5°	2199.2	2162.5	2150.3	2089.2	1991.5	1881.5	1763.4	1641.2	1515.0	1417.2	1368.4
7.5°	2683.8	2655.3	2639.0	2569.8	2435.4	2317.3	2129.9	1906.0	1690.1	1506.8	1433.5
10°	3042.2	3021.8	2989.3	2956.7	2858.9	2757.1	2525.0	2207.3	1889.7	1616.8	1506.8
12.5°	3302.8	3274.3	3274.3	3270.3	3205.1	3111.4	2895.6	2553.5	2121.8	1739.0	1588.3
15°	3478.0	3473.9	3486.1	3510.5	3494.2	3433.2	3217.3	2871.1	2358.0	1877.4	1682.0
17.5°	3608.3	3592.0	3616.4	3681.6	3730.5	3706.0	3526.8	3176.6	2618.6	2028.1	1783.8
20°	3750.8	3718.2	3750.8	3832.3	3893.4	3930.0	3844.5	3469.8	2899.7	2191.0	1881.5
22.5°	4023.7	4019.6	4003.3	4027.8	4068.5	4133.6	4084.8	3767.1	3172.5	2353.9	1995.5
25°	4512.4	4467.6	4422.8	4369.8	4325.0	4345.4	4304.7	4044.0	3420.9	2533.1	2093.3
27.5°	5058.1	5009.2	4927.8	4797.5	4675.3	4602.0	4516.5	4284.3	3661.2	2696.0	2187.0
30°	5559.0	5542.7	5420.6	5278.0	5066.3	4931.9	4769.0	4561.3	3950.4	2875.2	2284.7
32.5°	6027.4	5994.8	5872.6	5721.9	5473.5	5322.8	5098.8	4862.6	4280.2	3095.1	2386.5
35°	6430.6	6398.0	6255.4	6064.0	5848.2	5717.9	5461.3	5131.4	4581.6	3286.5	2472.0
37.5°	6736.0	6699.3	6564.9	6377.6	6186.2	6125.1	5905.2	5473.5	4923.7	3526.8	2577.9
40°	6907.0	6862.2	6772.6	6642.3	6483.5	6455.0	6361.3	5897.1	5355.4	3820.1	2732.7
42.5°	6927.4	6886.7	6837.8	6825.6	6813.4	6837.8	6882.6	6377.6	5848.2	4211.0	2960.7
45°	6748.2	6723.8	6727.9	6866.3	7057.7	7281.7	7550.5	7086.2	6512.0	4956.3	3473.9
47.5°	6365.4	6353.2	6442.8	6674.9	7102.5	7611.6	8373.2	8299.9	8084.0	6157.7	4133.6
50°	5746.4	5726.0	5917.4	6283.9	6894.8	7721.6	8927.0	9729.3	9908.5	7090.3	4565.3
52.5°	4858.6	4883.0	5180.3	5681.2	6418.3	7603.4	9155.1	10315.8	10788.2	7778.6	4895.2
55°	3950.4	3913.7	4182.5	4801.5	5713.8	7171.8	9199.9	10653.8	11358.3	8413.9	5216.9
57.5°	2879.3	2968.9	3254.0	3816.0	4805.6	6389.8	8939.2	10885.9	12124.0	9049.2	5514.2
60°	1950.8	1950.8	2203.2	2765.3	3714.2	5440.9	8242.8	10800.4	12791.9	9546.1	5579.4
62.5°	1242.1	1229.9	1433.5	1832.6	2659.4	4227.3	7200.3	10262.8	13028.1	9664.2	5306.5
65°	786.0	802.3	875.6	1120.0	1702.3	3001.5	5778.9	9191.7	12641.2	9391.3	4830.0
67.5°	631.2	635.3	672.0	773.8	1046.6	1926.3	4284.3	7713.4	11716.7	8703.0	4272.1
70°	557.9	566.1	574.2	610.9	716.8	1217.7	2814.1	6210.6	10201.7	7505.7	3673.4
72.5°	509.1	517.2	525.4	533.5	590.5	794.1	1661.6	4707.9	8230.6	5766.7	2801.9
75°	468.3	476.5	476.5	480.6	513.1	590.5	912.3	3245.8	5730.1	3587.9	1747.1
77.5°	419.5	423.5	423.5	431.7	464.3	464.3	566.1	2007.8	3180.7	1624.9	883.7
80°	354.3	362.5	362.5	374.7	407.3	358.4	378.7	1026.3	1319.5	667.9	395.0
82.5°	260.6	276.9	285.1	305.4	325.8	272.9	272.9	517.2	557.9	297.3	211.8
85°	142.5	146.6	211.8	228.1	240.3	162.9	183.3	256.6	276.9	130.3	105.9
87.5°	40.7	44.8	101.8	126.2	114.0	69.2	77.4	97.7	97.7	36.7	28.5
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°	1315.4	1315.4	1315.4	1315.4	1315.4	1315.4	1315.4	1315.4	1315.4	1315.4
2.5°	1311.4	1278.8	1250.3	1229.9	1209.5	1197.3	1193.3	1185.1	1185.1	1189.2
5°	1327.7	1270.6	1225.8	1201.4	1185.1	1177.0	1172.9	1172.9	1177.0	1177.0
7.5°	1368.4	1282.9	1242.1	1221.8	1205.5	1197.3	1197.3	1193.3	1197.3	1197.3
10°	1425.4	1319.5	1274.7	1250.3	1238.1	1225.8	1221.8	1217.7	1217.7	1217.7
12.5°	1486.5	1360.2	1311.4	1282.9	1262.5	1246.2	1238.1	1229.9	1225.8	1225.8
15°	1543.5	1401.0	1335.8	1303.2	1274.7	1250.3	1234.0	1221.8	1217.7	1217.7
17.5°	1604.6	1429.5	1352.1	1307.3	1270.6	1238.1	1217.7	1201.4	1193.3	1193.3
20°	1669.7	1449.8	1352.1	1295.1	1246.2	1213.6	1189.2	1172.9	1156.6	1156.6
22.5°	1722.7	1458.0	1335.8	1266.6	1217.7	1177.0	1152.5	1132.2	1120.0	1120.0
25°	1767.5	1449.8	1299.1	1221.8	1164.7	1128.1	1103.7	1087.4	1075.2	1075.2
27.5°	1796.0	1417.2	1254.3	1172.9	1120.0	1083.3	1067.0	1050.7	1042.6	1042.6
30°	1812.3	1376.5	1197.3	1120.0	1067.0	1046.6	1038.5	1022.2	1010.0	1005.9
32.5°	1820.4	1315.4	1140.3	1067.0	1030.4	1022.2	1022.2	1001.8	985.6	981.5
35°	1812.3	1250.3	1083.3	1022.2	1010.0	1014.1	1005.9	981.5	961.1	953.0
37.5°	1800.1	1172.9	1022.2	989.6	1001.8	1010.0	985.6	953.0	920.4	912.3
40°	1791.9	1103.7	973.3	957.0	993.7	997.8	953.0	891.9	867.5	859.3
42.5°	1832.6	1034.4	928.5	932.6	973.3	977.4	896.0	867.5	851.2	847.1
45°	1971.1	973.3	891.9	916.3	948.9	932.6	867.5	863.4	851.2	847.1
47.5°	2077.0	928.5	875.6	904.1	928.5	871.5	863.4	859.3	847.1	843.0
50°	2113.7	900.0	871.5	896.0	900.0	843.0	855.2	855.2	843.0	838.9
52.5°	2117.7	883.7	879.7	891.9	855.2	830.8	847.1	847.1	834.9	830.8
55°	2134.0	875.6	883.7	891.9	806.4	814.5	830.8	834.9	822.7	818.6
57.5°	2101.4	863.4	891.9	896.0	786.0	798.2	814.5	814.5	814.5	814.5
60°	1975.2	838.9	887.8	887.8	769.7	777.9	794.1	802.3	806.4	806.4
62.5°	1743.1	790.1	863.4	863.4	753.4	761.6	781.9	781.9	794.1	794.1
65°	1449.8	720.8	814.5	810.4	737.1	745.3	769.7	761.6	781.9	786.0
67.5°	1209.5	635.3	741.2	749.3	720.8	741.2	757.5	729.0	769.7	769.7
70°	965.2	533.5	643.5	680.1	692.3	745.3	733.1	688.3	741.2	729.0
72.5°	749.3	452.1	529.4	594.6	659.8	741.2	680.1	631.2	663.8	643.5
75°	545.7	374.7	435.8	492.8	615.0	729.0	627.2	553.9	553.9	545.7
77.5°	382.8	305.4	350.2	391.0	570.2	696.4	562.0	476.5	456.1	452.1
80°	260.6	240.3	276.9	301.4	505.0	631.2	484.6	395.0	358.4	350.2
82.5°	171.0	171.0	187.3	203.6	391.0	525.4	378.7	293.2	378.7	362.5
85°	97.7	101.8	101.8	118.1	215.8	370.6	268.8	293.2	175.1	162.9
87.5°	32.6	32.6	32.6	32.6	44.8	150.7	114.0	105.9	40.7	36.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)