

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: P572813

Luminaire Tested: **ARCH-S-PA2-120-727-U-T4W**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P572813
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-PA2-120-727-U-T4W
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13028 lumens
Efficiency: N/A
Efficacy: 106.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

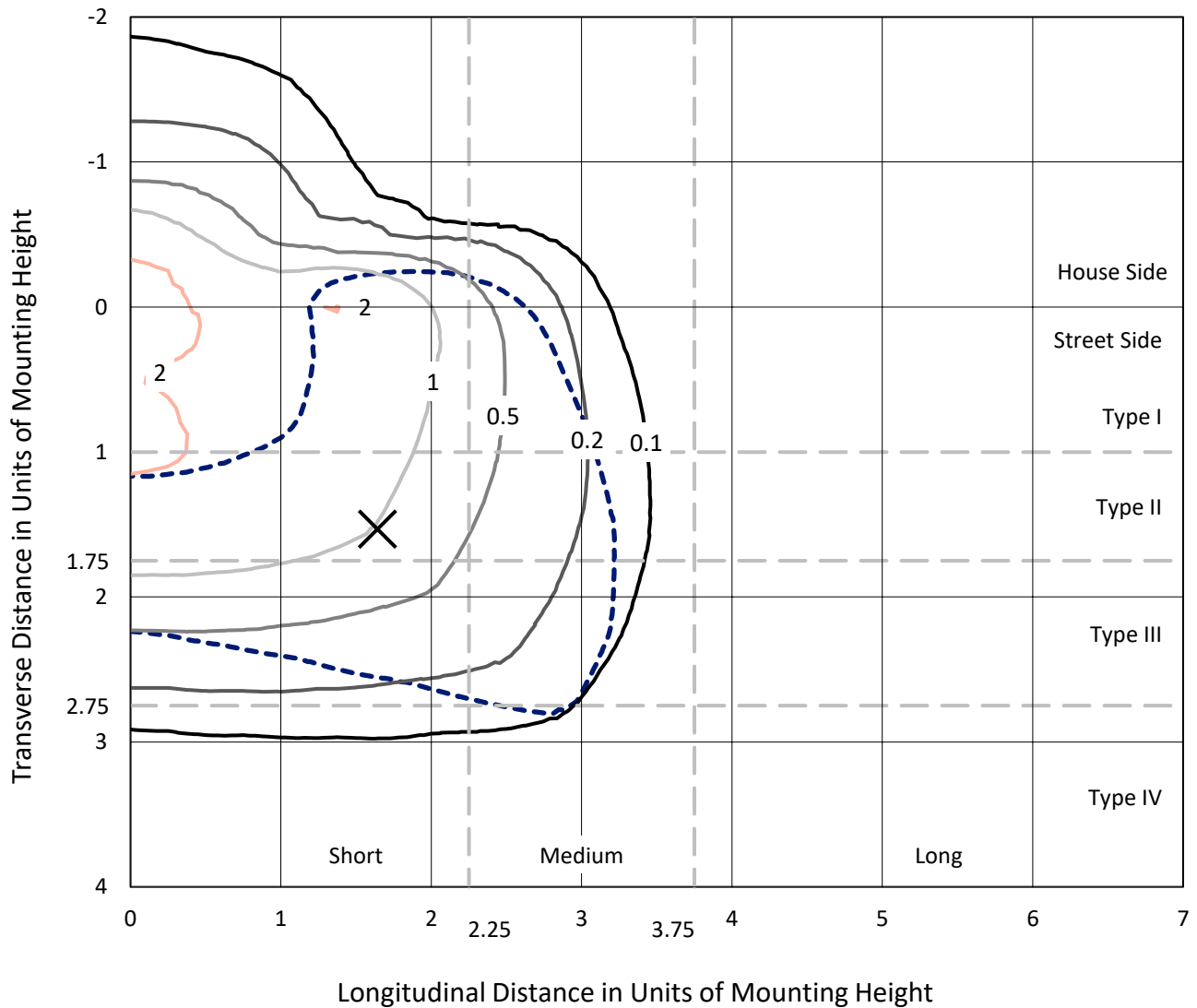
Input Watts (W): 122.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

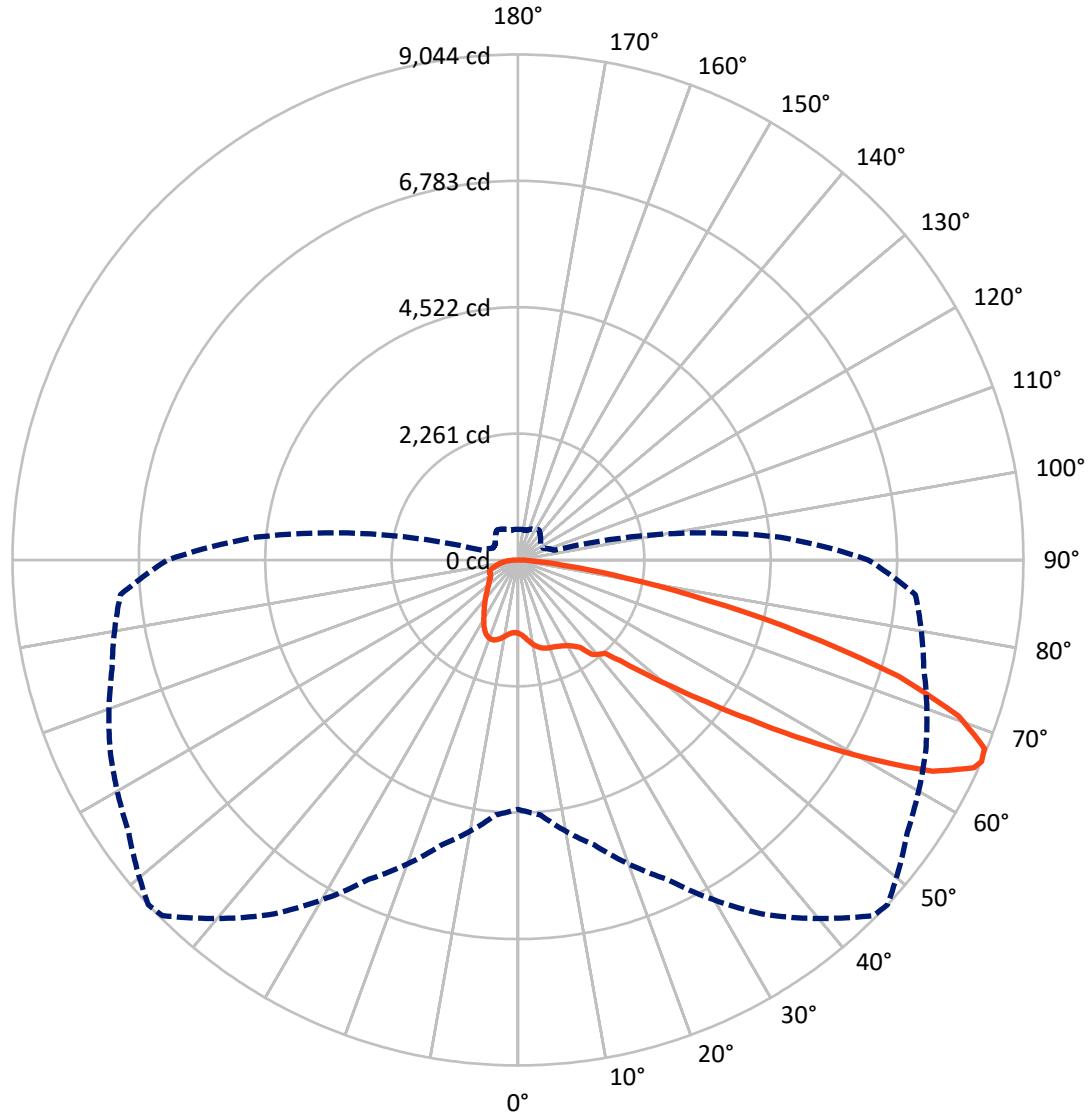
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 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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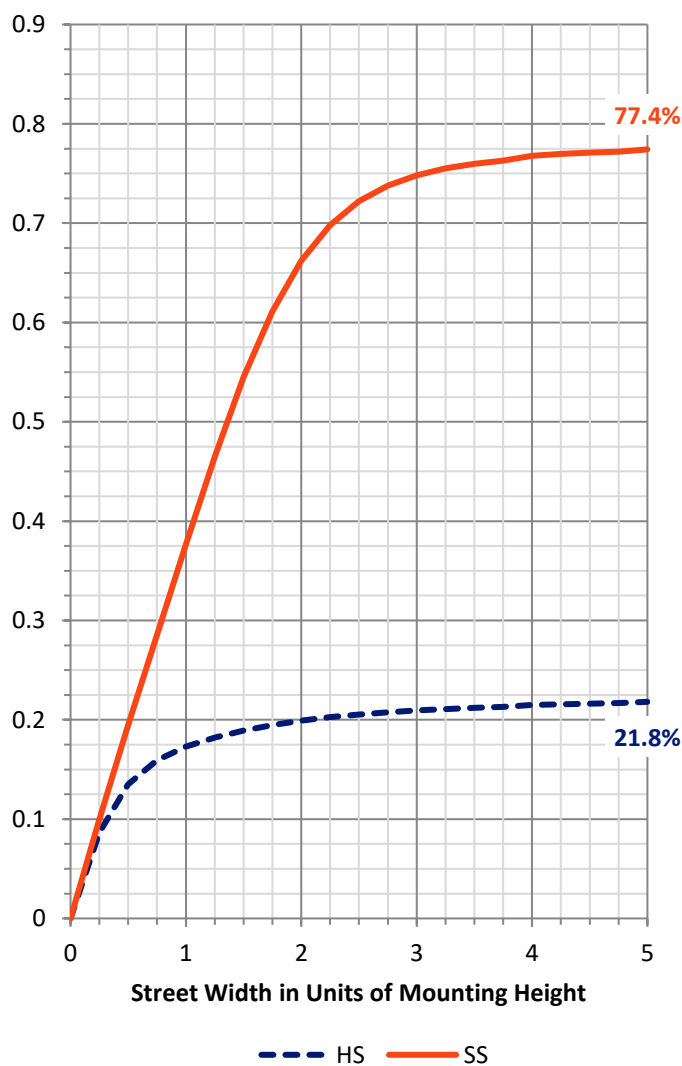
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2896.5	0.0	2896.5
	% Fixture	22.2	0.0	22.2
Street Side	Lumens	10131.5	0.0	10131.5
	% Fixture	77.8	0.0	77.8
Total	Lumens	13028.0	0.0	13028.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.3	1.0
10°-20°	437.3	3.4
20°-30°	729.3	5.6
30°-40°	1059.1	8.1
40°-50°	1619.7	12.4
50°-60°	3061.6	23.5
60°-70°	3956.0	30.4
70°-80°	1778.2	13.6
80°-90°	253.6	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°	13028.0	100.0
0°-180°	13028.0	100.0

Coefficient of Utilization



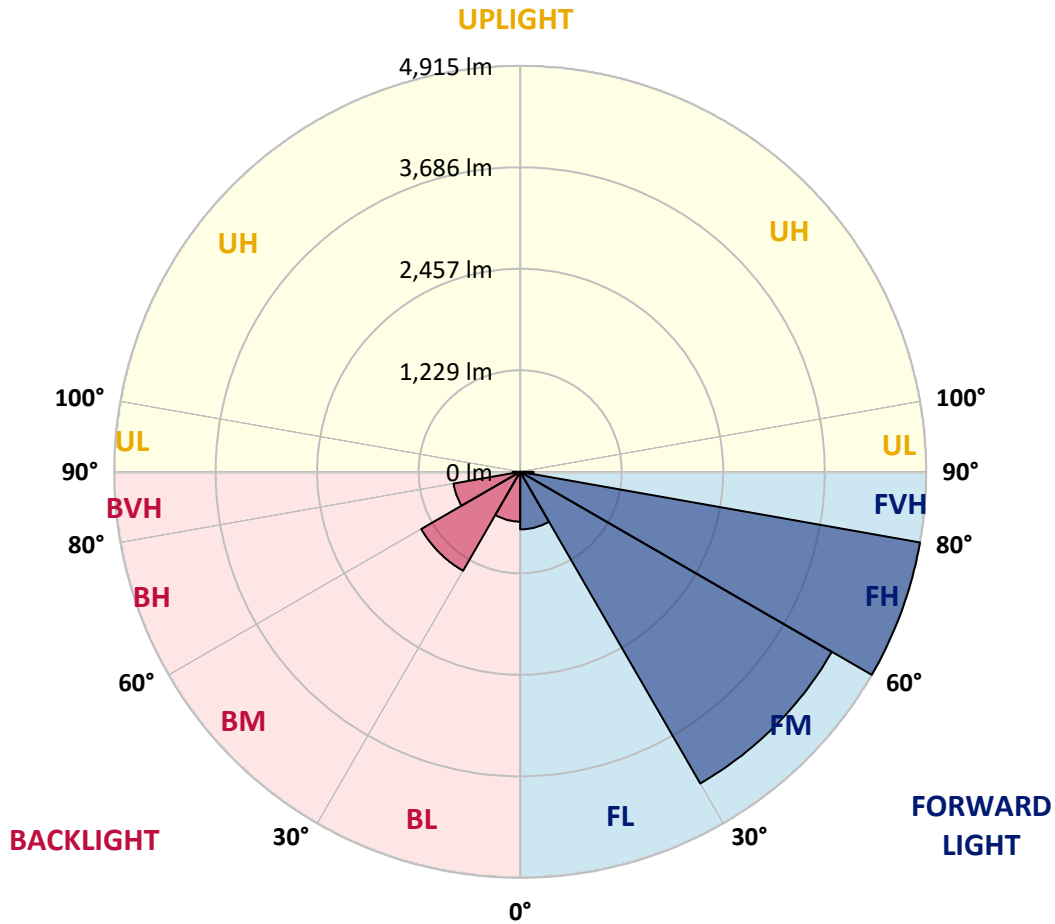
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	697.0	5.4			
FM (30°-60°)	4356.8	33.4			
FH (60°-80°)	4914.7	37.7			G2/5000
FVH (80°-90°)	163.0	1.3			G2/225
BL (0°-30°)	602.8	4.6	B2/1000		
BM (30°-60°)	1383.5	10.6	B2/2500		
BH (60°-80°)	819.6	6.3	B2/1000		G2/1000
BVH (80°-90°)	90.7	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°	1309.7	1309.7	1309.7	1309.7	1309.7	1309.7	1309.7	1309.7	1309.7	1309.7	1309.7
2.5°	1384.0	1373.4	1366.3	1362.8	1355.7	1341.6	1341.6	1338.0	1323.9	1316.8	1313.2
5°	1493.8	1486.7	1469.0	1454.8	1433.6	1405.3	1401.7	1380.5	1352.2	1330.9	1316.8
7.5°	1600.0	1592.9	1575.2	1554.0	1518.6	1483.2	1472.5	1444.2	1398.2	1366.3	1341.6
10°	1692.0	1681.4	1660.1	1631.8	1592.9	1554.0	1543.3	1511.5	1465.5	1419.4	1377.0
12.5°	1752.2	1745.1	1720.3	1684.9	1642.4	1603.5	1596.4	1568.1	1522.1	1472.5	1419.4
15°	1780.5	1777.0	1748.6	1713.2	1670.8	1638.9	1635.4	1610.6	1571.7	1522.1	1461.9
17.5°	1773.4	1769.9	1745.1	1709.7	1677.8	1660.1	1660.1	1642.4	1610.6	1568.1	1504.4
20°	1738.0	1738.0	1716.8	1692.0	1674.3	1670.8	1670.8	1667.2	1646.0	1610.6	1546.9
22.5°	1702.6	1702.6	1688.5	1670.8	1667.2	1681.4	1684.9	1692.0	1684.9	1656.6	1600.0
25°	1709.7	1706.2	1688.5	1667.2	1670.8	1702.6	1709.7	1727.4	1723.9	1702.6	1653.1
27.5°	1787.6	1784.0	1738.0	1695.5	1692.0	1730.9	1738.0	1762.8	1762.8	1745.1	1713.2
30°	1982.3	1989.3	1904.4	1798.2	1745.1	1769.9	1777.0	1805.3	1819.4	1826.5	1801.7
32.5°	2279.6	2269.0	2141.6	1968.1	1851.3	1826.5	1837.1	1861.9	1911.5	1925.6	1865.5
35°	2580.5	2587.6	2463.7	2244.2	2021.2	1929.2	1922.1	1957.5	2031.8	1968.1	1861.9
37.5°	2860.1	2849.5	2704.4	2467.2	2244.2	2138.0	2141.6	2127.4	2063.7	1936.2	1886.7
40°	3164.5	3136.2	3015.9	2711.5	2428.3	2251.3	2219.4	2099.1	2046.0	1992.9	1985.8
42.5°	3465.4	3469.0	3369.8	3069.0	2647.7	2332.7	2283.1	2159.3	2194.6	2184.0	2177.0
45°	3844.2	3844.2	3745.1	3465.4	2994.6	2637.1	2569.9	2421.2	2477.8	2520.3	2605.3
47.5°	4191.1	4169.8	4141.5	3904.4	3447.7	3033.6	3005.3	2835.3	2984.0	3115.0	3288.4
50°	4559.2	4530.9	4513.2	4368.1	4042.4	3635.3	3550.4	3373.4	3699.0	3943.3	4265.4
52.5°	5132.6	5083.1	4991.1	4909.6	4782.2	4311.4	4205.2	4074.3	4495.5	4803.5	5461.8
55°	5649.5	5607.0	5518.5	5578.7	5561.0	5132.6	5040.6	4916.7	5373.4	5748.6	6502.5
57.5°	5840.6	5844.1	5964.5	6286.6	6456.5	6208.7	6077.8	5953.9	6339.7	6513.2	7192.8
60°	5929.1	5918.5	6230.0	6753.9	7306.1	7380.4	7214.0	6959.2	7104.3	7114.9	7776.8
62.5°	5737.9	5766.3	6194.6	6948.5	7815.8	8350.3	8325.5	7879.5	7745.0	7596.3	7932.6
65°	5012.3	5051.2	5681.3	6601.6	7897.2	8937.9	8962.7	8442.3	8067.1	7653.0	7490.1
66°	4460.1	4576.9	5277.8	6300.8	7748.5	8998.1	9044.1	8502.5	8052.9	7518.4	7139.7
67.5°	3741.5	3734.4	4516.7	5638.8	7334.4	8945.0	9005.1	8417.5	7861.8	7122.0	6438.8
70°	2290.2	2361.0	3033.6	4208.8	6070.7	8283.0	8364.4	7819.3	7037.0	6031.7	4761.0
72.5°	1175.2	1292.0	1734.5	2736.2	4407.0	6845.9	7122.0	6566.2	5752.1	4364.5	2906.1
75°	623.0	615.9	817.7	1483.2	2814.1	5136.2	5281.3	4923.8	3975.1	2601.7	1479.6
77.5°	332.7	350.4	428.3	761.0	1546.9	3281.4	3465.4	3175.2	2265.4	1330.9	708.0
80°	226.5	237.2	290.3	428.3	838.9	1780.5	1950.4	1692.0	1185.8	630.1	332.7
82.5°	145.1	152.2	198.2	265.5	502.6	863.7	909.7	867.2	580.5	357.5	201.8
85°	88.5	92.0	120.4	169.9	315.0	350.4	364.6	368.1	325.7	233.6	109.7
87.5°	42.5	46.0	67.3	85.0	148.7	127.4	116.8	120.4	180.5	138.1	49.6
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°	1309.7	1309.7	1309.7	1309.7	1309.7	1309.7	1309.7	1309.7	1309.7	1309.7	1309.7
2.5°	1309.7	1306.2	1299.1	1295.6	1299.1	1299.1	1299.1	1302.6	1309.7	1309.7	1313.2
5°	1309.7	1302.6	1295.6	1295.6	1302.6	1309.7	1316.8	1330.9	1338.0	1341.6	1341.6
7.5°	1327.4	1320.3	1313.2	1313.2	1323.9	1338.0	1352.2	1369.9	1387.6	1401.7	1401.7
10°	1362.8	1352.2	1345.1	1348.6	1366.3	1384.0	1401.7	1423.0	1440.7	1458.4	1458.4
12.5°	1401.7	1391.1	1380.5	1387.6	1412.4	1433.6	1451.3	1461.9	1479.6	1493.8	1493.8
15°	1440.7	1423.0	1419.4	1433.6	1458.4	1472.5	1479.6	1479.6	1486.7	1500.9	1500.9
17.5°	1483.2	1465.5	1461.9	1476.1	1497.3	1497.3	1483.2	1472.5	1469.0	1479.6	1483.2
20°	1525.6	1507.9	1507.9	1518.6	1515.0	1490.2	1465.5	1447.8	1433.6	1444.2	1447.8
22.5°	1578.7	1561.0	1554.0	1539.8	1507.9	1458.4	1419.4	1398.2	1387.6	1394.7	1401.7
25°	1631.8	1617.7	1600.0	1550.4	1476.1	1398.2	1348.6	1330.9	1334.5	1348.6	1355.7
27.5°	1699.1	1692.0	1649.5	1543.3	1419.4	1313.2	1263.7	1260.2	1274.3	1295.6	1306.2
30°	1780.5	1769.9	1695.5	1522.1	1341.6	1214.1	1178.7	1185.8	1207.1	1224.8	1235.4
32.5°	1837.1	1830.1	1716.8	1472.5	1246.0	1125.6	1097.3	1097.3	1107.9	1132.7	1143.3
35°	1854.8	1883.2	1730.9	1398.2	1132.7	1047.8	1019.5	1001.8	1001.8	1023.0	1030.1
37.5°	1915.0	1978.7	1738.0	1299.1	1040.7	977.0	941.6	909.7	899.1	895.6	895.6
40°	2053.1	2127.4	1734.5	1171.7	952.2	906.2	863.7	828.3	800.0	761.0	764.6
42.5°	2293.8	2350.4	1723.9	1037.1	874.3	842.5	800.0	757.5	711.5	669.0	665.5
45°	2757.5	2672.5	1695.5	920.3	803.5	785.8	746.9	697.3	640.7	601.8	601.8
47.5°	3490.2	3256.6	1677.8	810.6	739.8	736.3	700.9	647.8	591.1	562.8	559.3
50°	4495.5	4063.6	1706.2	732.7	683.2	693.8	665.5	615.9	569.9	545.1	541.6
52.5°	5649.5	4930.9	1738.0	683.2	640.7	661.9	647.8	601.8	555.7	534.5	531.0
55°	6541.5	5635.3	1692.0	637.2	598.2	630.1	630.1	587.6	548.7	527.4	527.4
57.5°	7168.0	5918.5	1532.7	594.7	562.8	601.8	612.4	580.5	545.1	538.0	538.0
60°	7437.0	5904.3	1253.1	555.7	538.0	573.4	601.8	573.4	552.2	569.9	573.4
62.5°	7291.9	5596.4	973.4	527.4	520.3	566.4	612.4	601.8	577.0	591.1	598.2
65°	6637.0	5054.8	732.7	502.6	499.1	569.9	640.7	619.5	559.3	562.8	566.4
66°	6268.9	4690.2	672.6	495.6	492.0	573.4	654.9	612.4	545.1	552.2	548.7
67.5°	5483.1	4116.7	591.1	481.4	477.9	573.4	672.6	598.2	527.4	538.0	527.4
70°	4021.2	2913.2	506.2	463.7	456.6	562.8	669.0	569.9	488.5	481.4	463.7
72.5°	2332.7	1762.8	449.5	442.5	424.8	495.6	626.5	523.9	446.0	424.8	407.1
75°	1146.9	895.6	400.0	417.7	371.7	435.4	566.4	484.9	410.6	382.3	371.7
77.5°	527.4	453.1	361.1	382.3	329.2	375.2	516.8	442.5	364.6	322.1	311.5
80°	286.7	283.2	304.4	318.6	276.1	329.2	456.6	385.8	308.0	261.9	247.8
82.5°	177.0	180.5	223.0	244.2	215.9	286.7	403.5	322.1	233.6	184.1	187.6
85°	92.0	102.7	148.7	162.8	141.6	212.4	304.4	215.9	131.0	95.6	95.6
87.5°	31.9	42.5	74.3	88.5	77.9	127.4	191.1	102.7	28.3	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)