

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: P573378

Luminaire Tested: **ARCH-S-PA2-70-727-U-T3**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P573378
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2108-332-38)
Test Lab: INNOVATION CENTER
Issue Date: 10/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-S-PA2-70-727-U-T3
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 725mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8954 lumens
Efficiency: N/A
Efficacy: 122.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

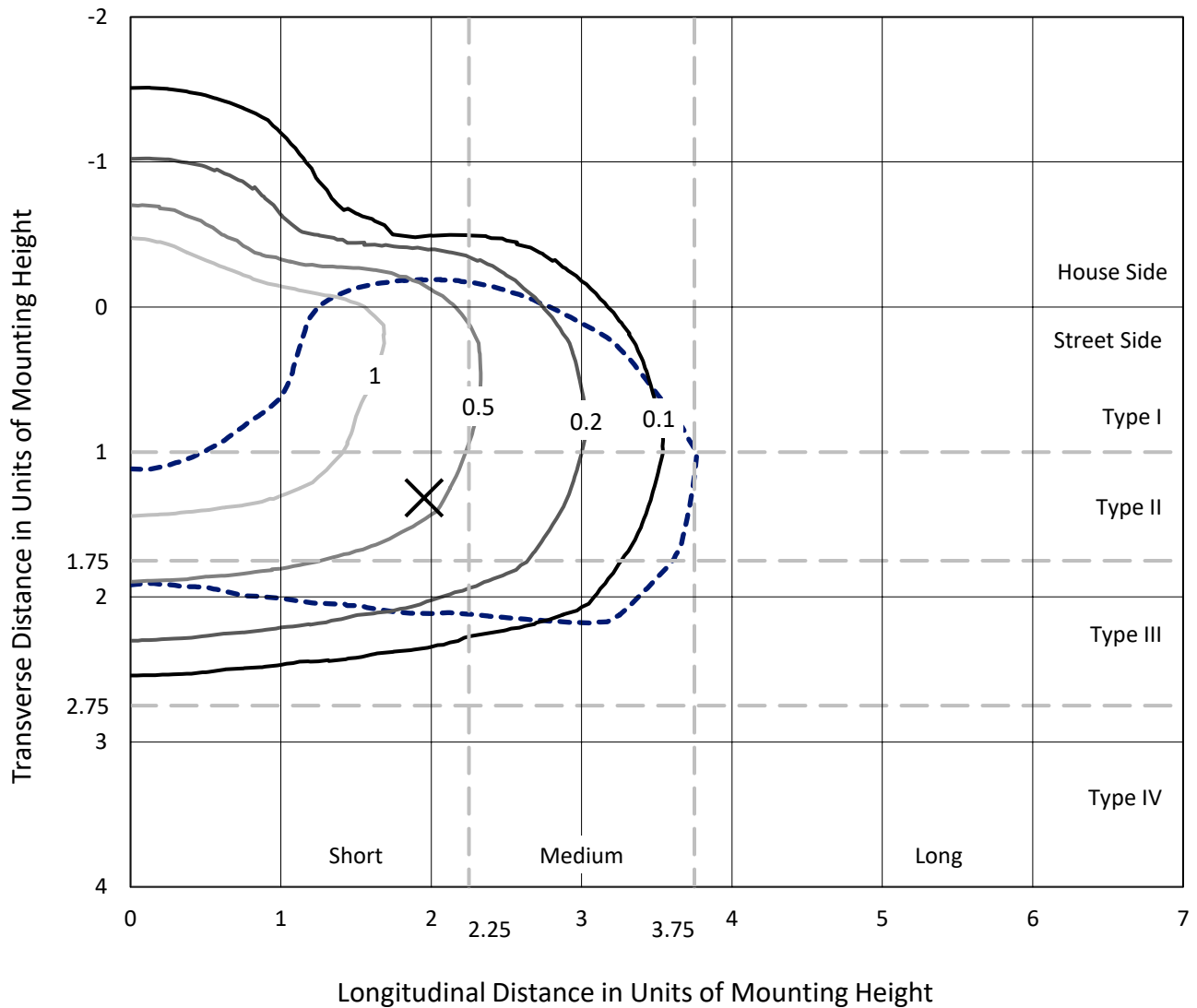
Input Watts (W): 73.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

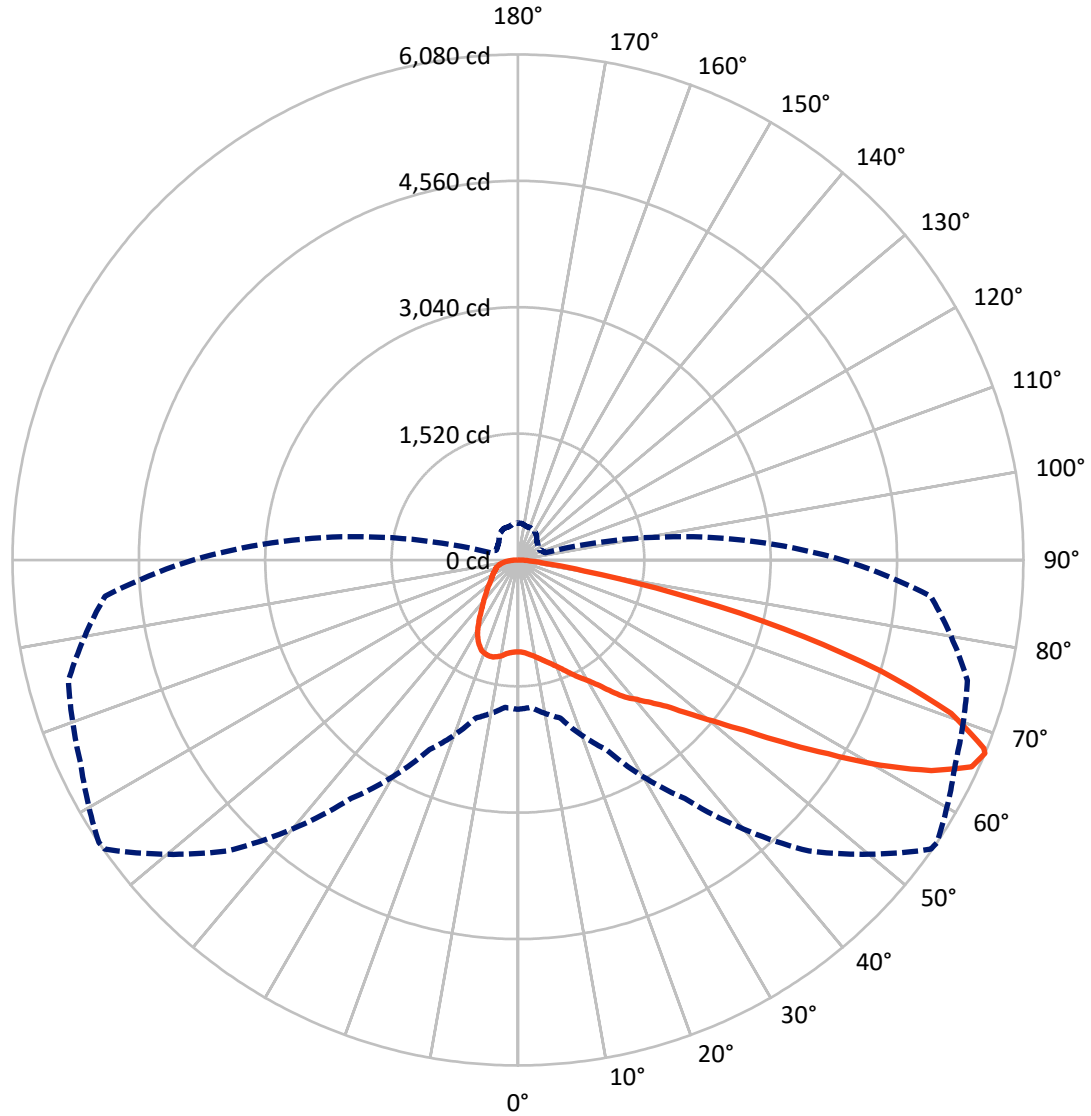
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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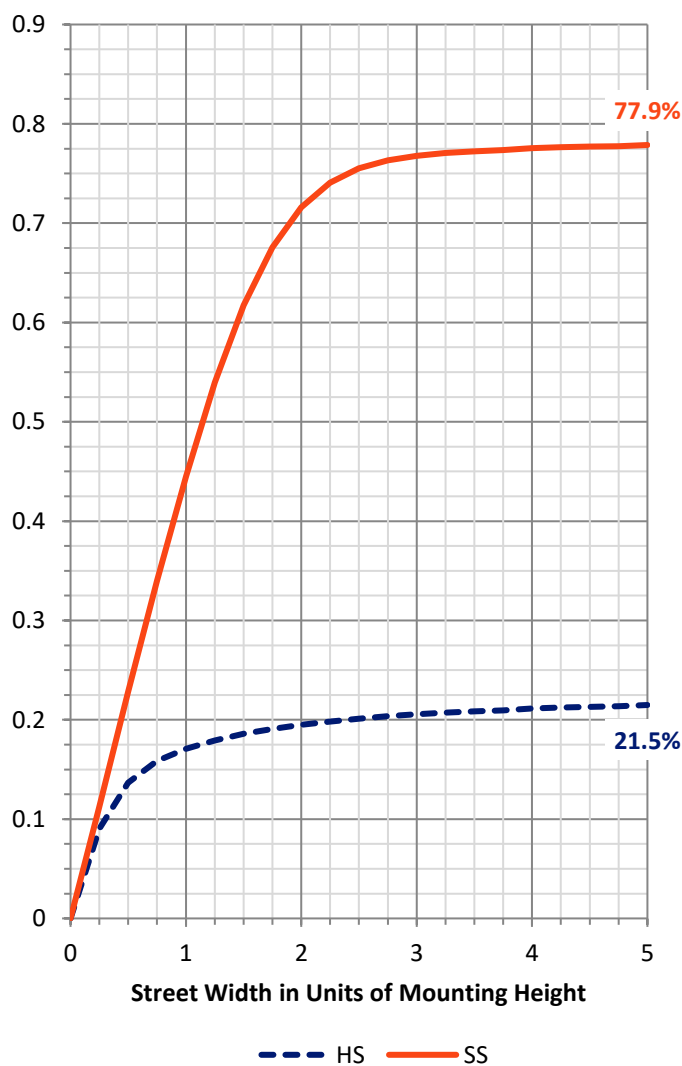
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1959.0	0.0	1959.0
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	6995.0	0.0	6995.0
	% Fixture	78.1	0.0	78.1
Total	Lumens	8954.0	0.0	8954.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.7	1.2
10°-20°	348.8	3.9
20°-30°	607.0	6.8
30°-40°	890.0	9.9
40°-50°	1302.2	14.5
50°-60°	2035.2	22.7
60°-70°	2419.0	27.0
70°-80°	1101.7	12.3
80°-90°	141.3	1.6
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°	8954.0	100.0
0°-180°	8954.0	100.0

Coefficient of Utilization



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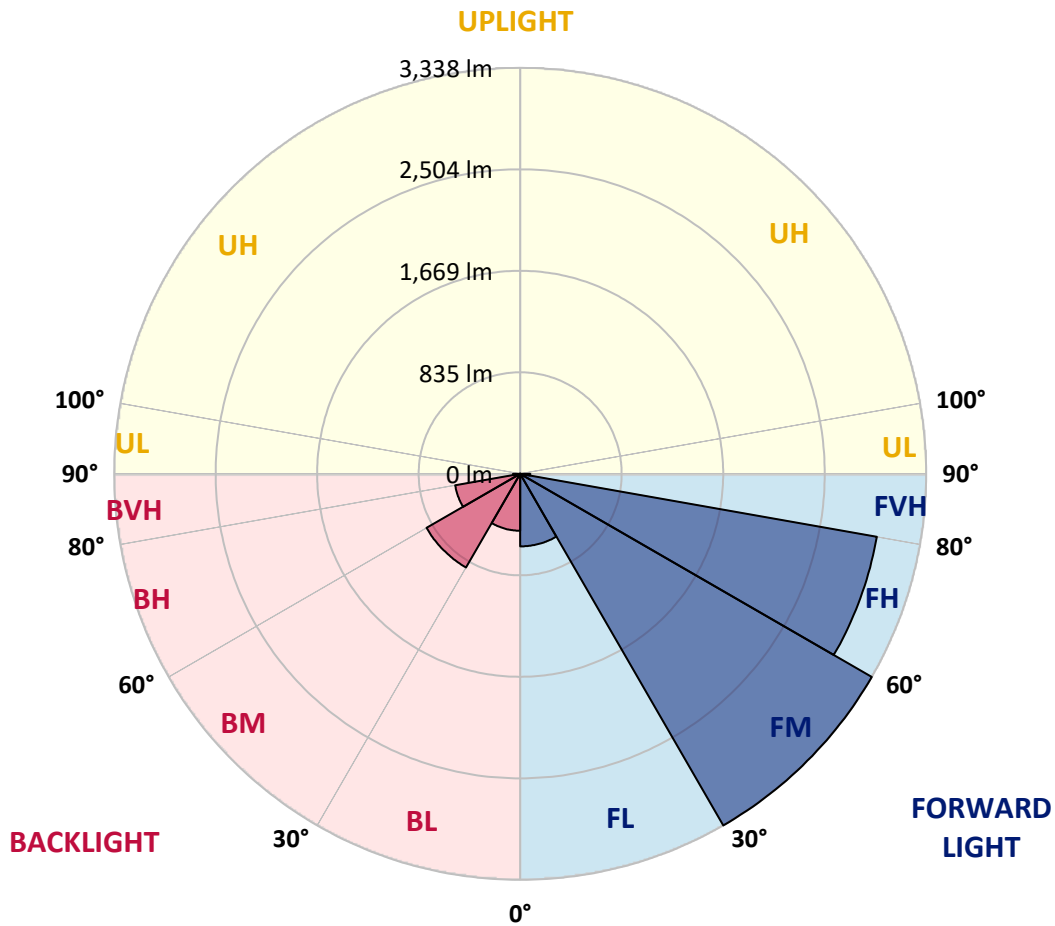
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	596.4	6.7			
FM (30°-60°)	3338.3	37.3			
FH (60°-80°)	2978.0	33.3			G2/5000
FVH (80°-90°)	82.4	0.9			G1/100
BL (0°-30°)	468.2	5.2	B1/500		
BM (30°-60°)	889.2	9.9	B1/1000		
BH (60°-80°)	542.7	6.1	B2/1000		G2/1000
BVH (80°-90°)	58.9	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°	55°	56°	65°	75°	85°
0°	1105.5	1105.5	1105.5	1105.5	1105.5	1105.5	1105.5	1105.5	1105.5	1105.5	1105.5
2.5°	1122.4	1117.6	1115.2	1117.6	1115.2	1110.3	1112.7	1110.3	1107.9	1105.5	1105.5
5°	1137.0	1132.1	1129.7	1132.1	1134.6	1129.7	1129.7	1129.7	1122.4	1120.0	1115.2
7.5°	1146.7	1139.4	1139.4	1144.3	1149.1	1151.5	1156.4	1154.0	1146.7	1141.8	1132.1
10°	1178.2	1168.5	1168.5	1168.5	1173.3	1178.2	1183.0	1185.5	1183.0	1180.6	1173.3
12.5°	1226.7	1217.0	1217.0	1217.0	1217.0	1214.6	1221.8	1224.3	1229.1	1229.1	1217.0
15°	1292.1	1280.0	1275.2	1265.5	1263.0	1258.2	1267.9	1267.9	1275.2	1277.6	1265.5
17.5°	1355.2	1340.6	1335.8	1326.1	1316.4	1304.3	1314.0	1316.4	1330.9	1333.3	1314.0
20°	1420.6	1415.8	1408.5	1394.0	1377.0	1364.9	1374.6	1372.1	1384.3	1389.1	1364.9
22.5°	1505.5	1493.4	1488.5	1469.1	1449.7	1437.6	1437.6	1442.4	1454.6	1454.6	1418.2
25°	1607.3	1590.3	1578.2	1556.4	1532.1	1517.6	1520.0	1524.9	1541.8	1529.7	1474.0
27.5°	1733.4	1716.4	1699.4	1655.8	1631.5	1602.4	1600.0	1604.9	1631.5	1600.0	1527.3
30°	1852.1	1844.9	1830.3	1796.4	1757.6	1709.1	1687.3	1689.7	1709.1	1665.5	1573.4
32.5°	1954.0	1944.3	1937.0	1912.8	1886.1	1827.9	1798.8	1801.2	1798.8	1745.5	1629.1
35°	2075.2	2060.6	2055.8	2034.0	2000.0	1961.2	1949.1	1944.3	1929.7	1857.0	1701.8
37.5°	2191.5	2177.0	2169.7	2157.6	2130.9	2097.0	2097.0	2094.6	2065.5	1963.7	1774.6
40°	2329.7	2312.8	2290.9	2283.7	2261.8	2237.6	2218.2	2206.1	2155.2	2063.1	1915.2
42.5°	2497.0	2487.3	2475.2	2443.7	2409.7	2404.9	2349.1	2344.3	2307.9	2254.6	2114.0
45°	2737.0	2717.6	2700.6	2690.9	2649.7	2606.1	2528.5	2509.1	2509.1	2497.0	2346.7
47.5°	2979.4	2945.5	2969.7	2962.5	2952.8	2904.3	2754.0	2756.4	2751.5	2783.1	2688.5
50°	3141.9	3122.5	3190.3	3221.9	3289.7	3289.7	3074.0	3047.3	3066.7	3158.8	3037.6
52.5°	3267.9	3255.8	3333.4	3457.0	3658.2	3677.6	3454.6	3398.8	3425.5	3556.4	3507.9
55°	3369.7	3357.6	3447.3	3663.1	3985.5	4104.3	3893.4	3869.1	3815.8	3956.4	3971.0
57.5°	3430.3	3403.7	3539.4	3827.9	4252.2	4526.1	4407.3	4400.1	4276.4	4407.3	4472.8
60°	3338.2	3321.3	3507.9	3895.8	4467.9	4923.7	5011.0	5011.0	4790.4	4860.7	4940.7
62.5°	3040.0	3018.2	3214.6	3738.2	4494.6	5248.5	5609.8	5580.7	5284.9	5282.5	5212.2
65°	2472.8	2446.1	2666.7	3219.4	4157.6	5287.3	6014.6	5997.6	5655.8	5558.9	5229.2
67°	1796.4	1779.4	1968.5	2516.4	3503.1	4950.4	6065.5	6080.1	5803.7	5597.6	4984.3
67.5°	1612.1	1609.7	1767.3	2310.3	3311.6	4826.7	6031.6	6046.1	5801.3	5566.1	4887.3
70°	751.5	785.5	933.3	1323.7	2232.8	3801.3	5474.0	5529.8	5491.0	5202.5	4116.4
72.5°	349.1	363.6	429.1	640.0	1200.0	2450.9	4436.4	4569.8	4739.5	4463.1	3260.6
75°	215.8	220.6	257.0	332.1	564.9	1178.2	3158.8	3304.3	3561.3	3357.6	2084.9
77.5°	169.7	172.1	196.4	237.6	329.7	506.7	1733.4	1915.2	2249.7	1985.5	1049.7
80°	126.1	130.9	150.3	184.2	232.7	259.4	737.0	804.9	1086.1	831.5	436.4
82.5°	92.1	97.0	116.4	133.3	162.4	164.9	300.6	317.6	465.5	337.0	189.1
85°	77.6	77.6	89.7	99.4	109.1	92.1	147.9	145.5	179.4	152.7	75.2
87.5°	36.4	38.8	84.8	63.0	53.3	38.8	43.6	46.1	55.8	60.6	29.1
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°	1105.5	1105.5	1105.5	1105.5	1105.5	1105.5	1105.5	1105.5	1105.5	1105.5	1105.5
2.5°	1103.0	1103.0	1103.0	1105.5	1107.9	1107.9	1110.3	1110.3	1112.7	1115.2	1120.0
5°	1112.7	1112.7	1110.3	1112.7	1117.6	1120.0	1124.9	1129.7	1134.6	1139.4	1141.8
7.5°	1132.1	1129.7	1129.7	1129.7	1134.6	1139.4	1146.7	1151.5	1158.8	1161.2	1166.1
10°	1168.5	1163.7	1163.7	1166.1	1168.5	1161.2	1158.8	1156.4	1163.7	1168.5	1173.3
12.5°	1212.1	1207.3	1204.9	1197.6	1187.9	1173.3	1161.2	1151.5	1154.0	1158.8	1166.1
15°	1258.2	1248.5	1243.7	1226.7	1202.4	1170.9	1151.5	1139.4	1139.4	1139.4	1146.7
17.5°	1306.7	1297.0	1277.6	1246.1	1200.0	1156.4	1132.1	1110.3	1100.6	1098.2	1103.0
20°	1352.7	1338.2	1306.7	1258.2	1185.5	1127.3	1095.8	1059.4	1044.9	1035.2	1040.0
22.5°	1396.4	1377.0	1333.3	1258.2	1161.2	1083.6	1027.9	979.4	955.2	950.3	952.7
25°	1442.4	1418.2	1360.0	1243.7	1107.9	1018.2	940.6	889.7	858.2	853.3	860.6
27.5°	1488.5	1452.1	1381.8	1204.9	1047.3	928.5	846.1	797.6	780.6	770.9	773.3
30°	1527.3	1493.4	1403.7	1151.5	964.9	824.3	749.1	727.3	715.2	710.3	710.3
32.5°	1578.2	1546.7	1418.2	1088.5	867.9	729.7	681.2	664.3	654.6	642.4	644.9
35°	1641.2	1612.1	1410.9	1008.5	775.8	666.7	627.9	603.6	581.8	564.9	562.4
37.5°	1726.1	1704.3	1374.6	911.5	690.9	620.6	581.8	550.3	518.8	492.1	487.3
40°	1866.7	1815.8	1321.2	804.9	632.7	584.2	538.2	499.4	460.6	431.5	424.2
42.5°	2046.1	1939.4	1248.5	695.8	584.2	545.5	499.4	448.5	412.1	385.5	385.5
45°	2254.6	2072.8	1161.2	613.3	533.3	506.7	450.9	407.3	385.5	368.5	366.1
47.5°	2501.8	2206.1	1049.7	547.9	492.1	472.7	417.0	390.3	375.8	361.2	358.8
50°	2834.0	2385.5	967.3	492.1	450.9	433.9	407.3	385.5	370.9	361.2	358.8
52.5°	3214.6	2615.8	909.1	448.5	417.0	409.7	404.9	387.9	373.3	366.1	363.6
55°	3626.7	2899.4	853.3	412.1	390.3	400.0	409.7	392.7	383.0	373.3	368.5
57.5°	4014.6	3139.4	763.6	380.6	370.9	387.9	407.3	395.2	383.0	375.8	373.3
60°	4278.8	3260.6	640.0	351.5	351.5	370.9	400.0	383.0	370.9	373.3	373.3
62.5°	4363.7	3214.6	506.7	324.9	332.1	351.5	378.2	368.5	363.6	375.8	375.8
65°	4237.6	3027.9	404.9	303.0	312.7	327.3	366.1	375.8	390.3	417.0	419.4
67°	3907.9	2727.3	341.8	286.1	295.8	320.0	380.6	414.6	414.6	443.6	443.6
67.5°	3811.0	2625.5	332.1	281.2	293.3	320.0	387.9	424.2	414.6	448.5	448.5
70°	3098.2	2065.5	281.2	266.7	283.6	337.0	419.4	426.7	404.9	436.4	433.9
72.5°	2298.2	1493.4	257.0	252.1	264.2	317.6	417.0	409.7	378.2	387.9	380.6
75°	1420.6	865.5	237.6	232.7	240.0	281.2	385.5	373.3	337.0	329.7	322.4
77.5°	686.1	438.8	203.6	210.9	218.2	244.9	339.4	327.3	295.8	278.8	276.4
80°	298.2	225.5	174.5	186.7	189.1	208.5	281.2	266.7	237.6	210.9	210.9
82.5°	147.9	126.1	138.2	155.2	150.3	167.3	220.6	196.4	174.5	145.5	140.6
85°	67.9	72.7	101.8	116.4	101.8	104.2	150.3	138.2	109.1	82.4	84.8
87.5°	24.2	33.9	58.2	70.3	50.9	48.5	80.0	58.2	33.9	9.7	12.1
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)