

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: P573306

Luminaire Tested: **ARCH-S-PA2-60-730-U-T3**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P573306
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-PA2-60-730-U-T3
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 625mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8616 lumens
Efficiency: N/A
Efficacy: 136.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

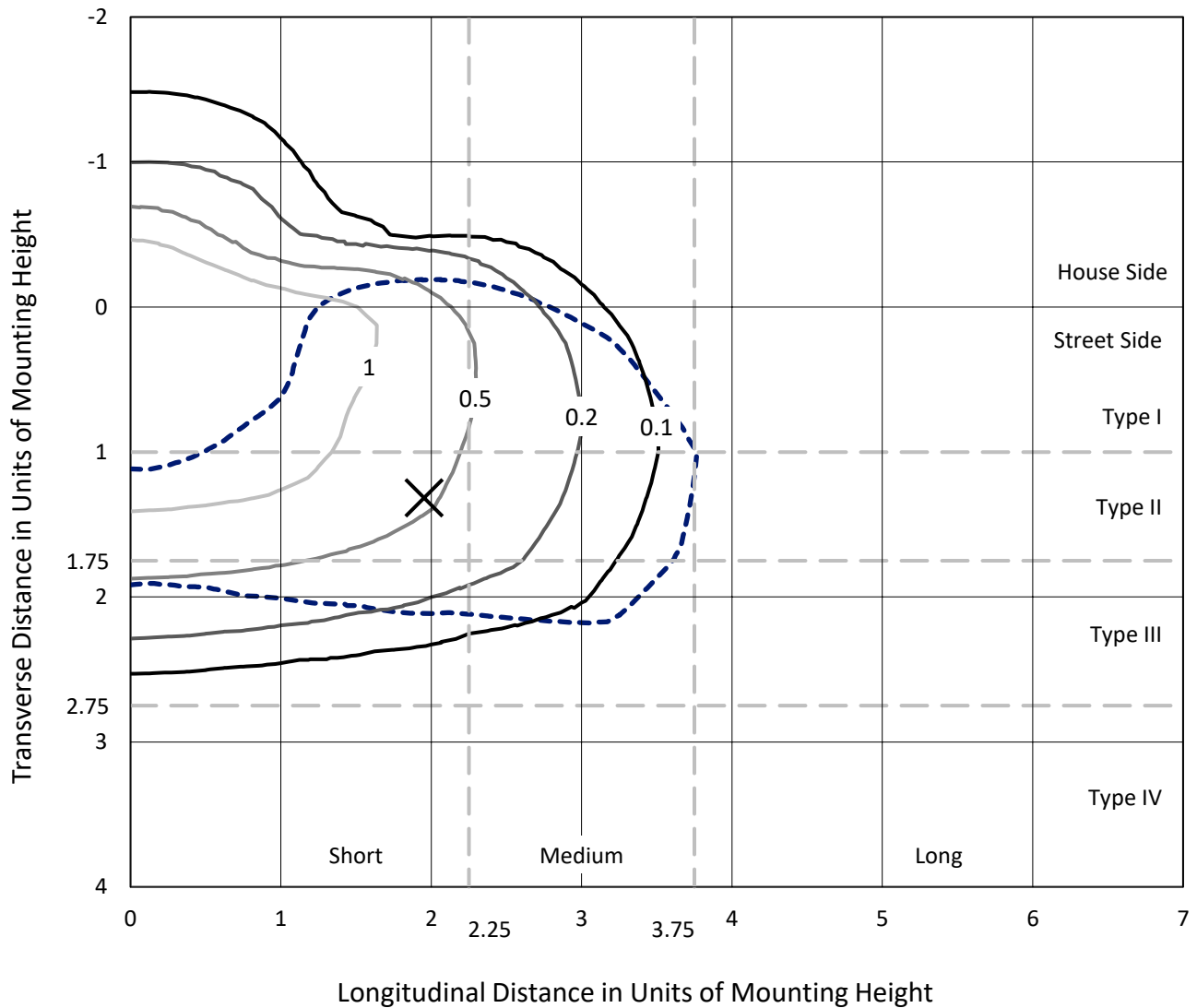
Input Watts (W): 63.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

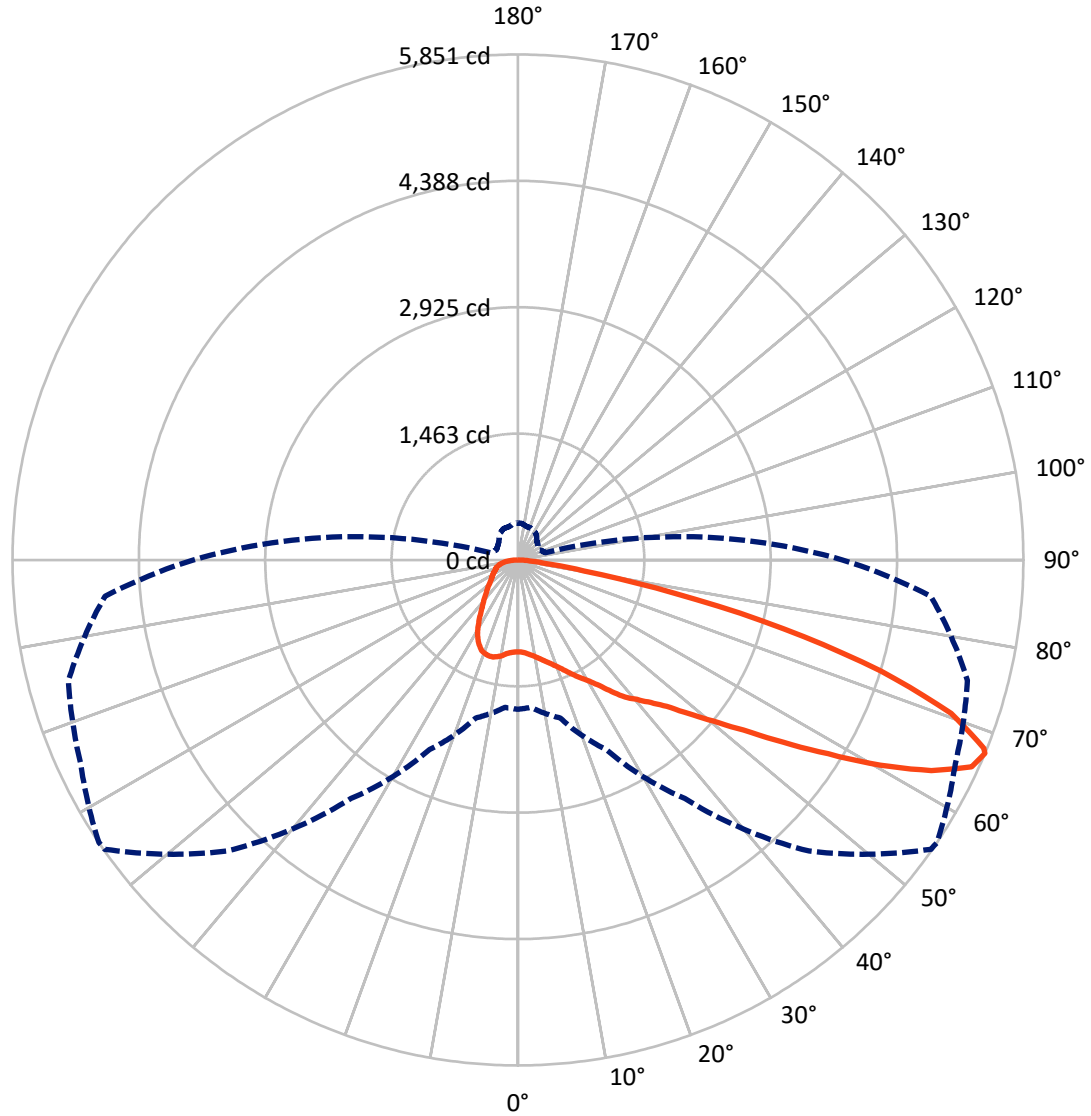
✕ Max cd
 - - - 1/2 Max cd



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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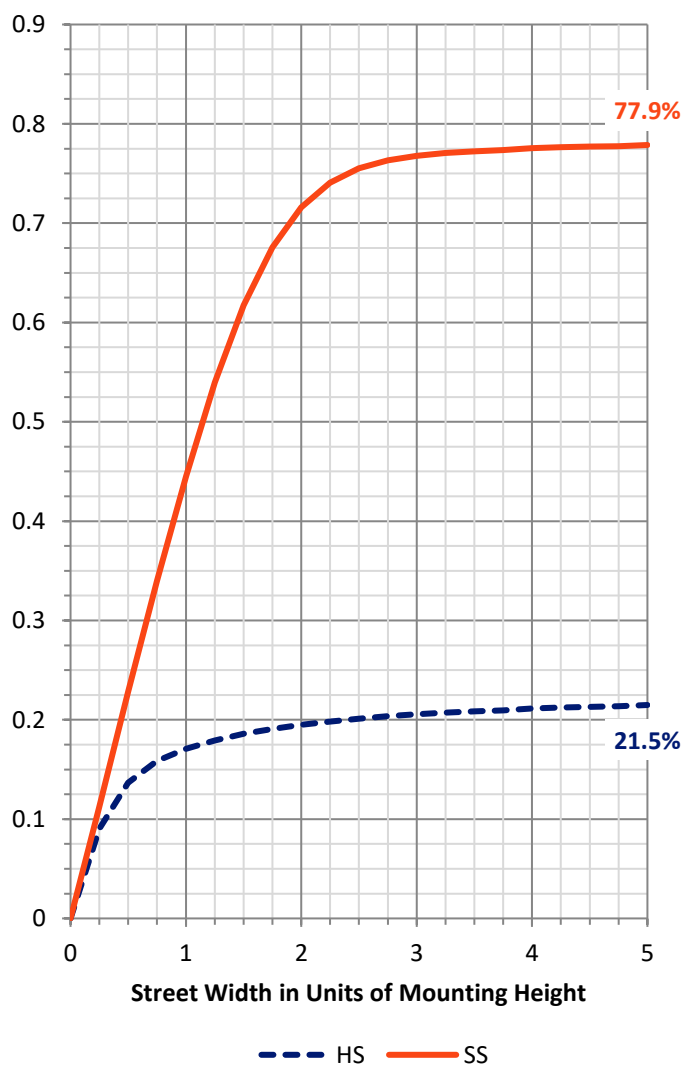
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1885.0	0.0	1885.0
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	6731.0	0.0	6731.0
	% Fixture	78.1	0.0	78.1
Total	Lumens	8616.0	0.0	8616.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.6	1.2
10°-20°	335.6	3.9
20°-30°	584.1	6.8
30°-40°	856.4	9.9
40°-50°	1253.1	14.5
50°-60°	1958.4	22.7
60°-70°	2327.7	27.0
70°-80°	1060.1	12.3
80°-90°	135.9	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°	8616.0	100.0
0°-180°	8616.0	100.0

Coefficient of Utilization



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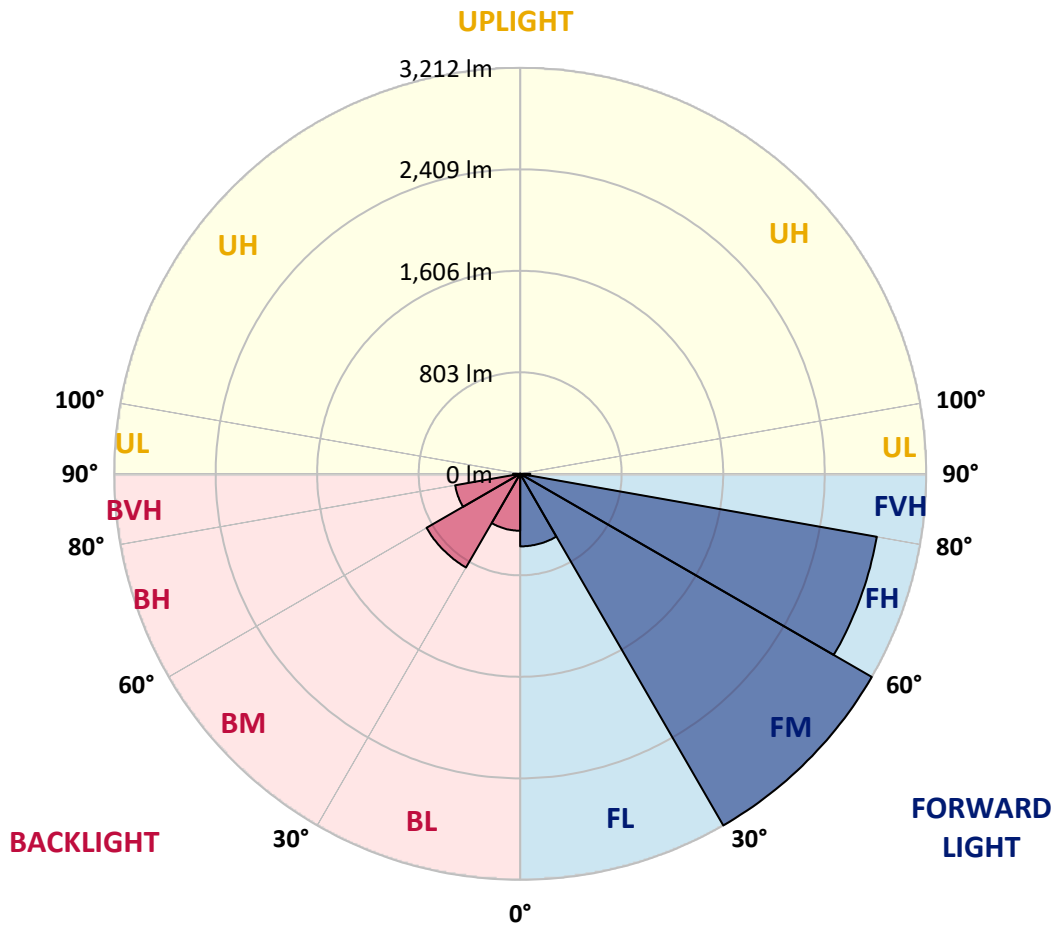
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	573.9	6.7			
FM (30°-60°)	3212.3	37.3			
FH (60°-80°)	2865.5	33.3			G2/5000
FVH (80°-90°)	79.3	0.9			G1/100
BL (0°-30°)	450.5	5.2	B1/500		
BM (30°-60°)	855.7	9.9	B1/1000		
BH (60°-80°)	522.2	6.1	B2/1000		G2/1000
BVH (80°-90°)	56.7	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°	55°	56°	65°	75°	85°
0°	1063.7	1063.7	1063.7	1063.7	1063.7	1063.7	1063.7	1063.7	1063.7	1063.7	1063.7
2.5°	1080.1	1075.4	1073.1	1075.4	1073.1	1068.4	1070.7	1068.4	1066.1	1063.7	1063.7
5°	1094.1	1089.4	1087.1	1089.4	1091.7	1087.1	1087.1	1087.1	1080.1	1077.7	1073.1
7.5°	1103.4	1096.4	1096.4	1101.1	1105.7	1108.1	1112.7	1110.4	1103.4	1098.7	1089.4
10°	1133.7	1124.4	1124.4	1124.4	1129.1	1133.7	1138.4	1140.7	1138.4	1136.1	1129.1
12.5°	1180.4	1171.0	1171.0	1171.0	1171.0	1168.7	1175.7	1178.0	1182.7	1182.7	1171.0
15°	1243.4	1231.7	1227.0	1217.7	1215.4	1210.7	1220.0	1220.0	1227.0	1229.4	1217.7
17.5°	1304.0	1290.0	1285.4	1276.0	1266.7	1255.0	1264.4	1266.7	1280.7	1283.0	1264.4
20°	1367.0	1362.3	1355.3	1341.3	1325.0	1313.3	1322.7	1320.3	1332.0	1336.7	1313.3
22.5°	1448.6	1437.0	1432.3	1413.7	1395.0	1383.3	1383.3	1388.0	1399.7	1399.7	1364.7
25°	1546.6	1530.3	1518.6	1497.6	1474.3	1460.3	1462.6	1467.3	1483.6	1472.0	1418.3
27.5°	1667.9	1651.6	1635.3	1593.3	1569.9	1542.0	1539.6	1544.3	1569.9	1539.6	1469.6
30°	1782.2	1775.2	1761.2	1728.6	1691.3	1644.6	1623.6	1625.9	1644.6	1602.6	1514.0
32.5°	1880.2	1870.9	1863.9	1840.5	1814.9	1758.9	1730.9	1733.2	1730.9	1679.6	1567.6
35°	1996.8	1982.8	1978.2	1957.2	1924.5	1887.2	1875.5	1870.9	1856.9	1786.9	1637.6
37.5°	2108.8	2094.8	2087.8	2076.2	2050.5	2017.8	2017.8	2015.5	1987.5	1889.5	1707.6
40°	2241.8	2225.5	2204.5	2197.5	2176.5	2153.1	2134.5	2122.8	2073.8	1985.2	1842.9
42.5°	2402.7	2393.4	2381.7	2351.4	2318.8	2314.1	2260.4	2255.8	2220.8	2169.5	2034.2
45°	2633.7	2615.0	2598.7	2589.4	2549.7	2507.7	2433.1	2414.4	2414.4	2402.7	2258.1
47.5°	2867.0	2834.3	2857.6	2850.6	2841.3	2794.6	2650.0	2652.3	2647.7	2678.0	2587.0
50°	3023.3	3004.6	3069.9	3100.2	3165.6	3165.6	2957.9	2932.3	2950.9	3039.6	2922.9
52.5°	3144.6	3132.9	3207.5	3326.5	3520.1	3538.8	3324.2	3270.5	3296.2	3422.2	3375.5
55°	3242.5	3230.9	3317.2	3524.8	3835.1	3949.4	3746.4	3723.1	3671.8	3807.1	3821.1
57.5°	3300.9	3275.2	3405.8	3683.4	4091.7	4355.3	4241.0	4234.0	4115.0	4241.0	4303.9
60°	3212.2	3195.9	3375.5	3748.7	4299.3	4737.8	4821.8	4821.8	4609.5	4677.2	4754.2
62.5°	2925.3	2904.3	3093.2	3597.1	4324.9	5050.4	5398.0	5370.0	5085.4	5083.1	5015.4
65°	2379.4	2353.8	2566.0	3097.9	4000.7	5087.7	5787.6	5771.2	5442.3	5349.0	5031.8
67°	1728.6	1712.2	1894.2	2421.4	3370.8	4763.5	5836.6	5850.6	5584.6	5386.3	4796.2
67.5°	1551.3	1549.0	1700.6	2223.1	3186.5	4644.5	5803.9	5817.9	5582.3	5356.0	4702.8
70°	723.2	755.8	898.1	1273.7	2148.5	3657.8	5267.4	5321.0	5283.7	5006.1	3961.0
72.5°	335.9	349.9	412.9	615.8	1154.7	2358.4	4269.0	4397.3	4560.5	4294.6	3137.6
75°	207.6	212.3	247.3	319.6	543.5	1133.7	3039.6	3179.6	3426.8	3230.9	2006.2
77.5°	163.3	165.6	189.0	228.6	317.3	487.5	1667.9	1842.9	2164.8	1910.5	1010.1
80°	121.3	126.0	144.6	177.3	223.9	249.6	709.2	774.5	1045.1	800.1	419.9
82.5°	88.6	93.3	112.0	128.3	156.3	158.6	289.3	305.6	447.9	324.3	182.0
85°	74.6	74.6	86.3	95.6	105.0	88.6	142.3	140.0	172.6	147.0	72.3
87.5°	35.0	37.3	81.6	60.7	51.3	37.3	42.0	44.3	53.7	58.3	28.0
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°	1063.7	1063.7	1063.7	1063.7	1063.7	1063.7	1063.7	1063.7	1063.7	1063.7	1063.7
2.5°	1061.4	1061.4	1061.4	1063.7	1066.1	1066.1	1068.4	1068.4	1070.7	1073.1	1077.7
5°	1070.7	1070.7	1068.4	1070.7	1075.4	1077.7	1082.4	1087.1	1091.7	1096.4	1098.7
7.5°	1089.4	1087.1	1087.1	1087.1	1091.7	1096.4	1103.4	1108.1	1115.1	1117.4	1122.1
10°	1124.4	1119.7	1119.7	1122.1	1124.4	1117.4	1115.1	1112.7	1119.7	1124.4	1129.1
12.5°	1166.4	1161.7	1159.4	1152.4	1143.1	1129.1	1117.4	1108.1	1110.4	1115.1	1122.1
15°	1210.7	1201.4	1196.7	1180.4	1157.0	1126.7	1108.1	1096.4	1096.4	1096.4	1103.4
17.5°	1257.4	1248.0	1229.4	1199.0	1154.7	1112.7	1089.4	1068.4	1059.1	1056.7	1061.4
20°	1301.7	1287.7	1257.4	1210.7	1140.7	1084.7	1054.4	1019.4	1005.4	996.1	1000.8
22.5°	1343.7	1325.0	1283.0	1210.7	1117.4	1042.7	989.1	942.4	919.1	914.4	916.8
25°	1388.0	1364.7	1308.7	1196.7	1066.1	979.8	905.1	856.1	825.8	821.1	828.1
27.5°	1432.3	1397.3	1329.7	1159.4	1007.8	893.4	814.1	767.5	751.1	741.8	744.2
30°	1469.6	1437.0	1350.7	1108.1	928.4	793.1	720.8	699.8	688.2	683.5	683.5
32.5°	1518.6	1488.3	1364.7	1047.4	835.1	702.2	655.5	639.2	629.8	618.2	620.5
35°	1579.3	1551.3	1357.7	970.4	746.5	641.5	604.2	580.9	559.9	543.5	541.2
37.5°	1660.9	1639.9	1322.7	877.1	664.8	597.2	559.9	529.5	499.2	473.6	468.9
40°	1796.2	1747.2	1271.4	774.5	608.9	562.2	517.9	480.5	443.2	415.2	408.2
42.5°	1968.8	1866.2	1201.4	669.5	562.2	524.9	480.5	431.6	396.6	370.9	370.9
45°	2169.5	1994.5	1117.4	590.2	513.2	487.5	433.9	391.9	370.9	354.6	352.2
47.5°	2407.4	2122.8	1010.1	527.2	473.6	454.9	401.2	375.6	361.6	347.6	345.2
50°	2727.0	2295.4	930.8	473.6	433.9	417.6	391.9	370.9	356.9	347.6	345.2
52.5°	3093.2	2517.0	874.8	431.6	401.2	394.2	389.6	373.2	359.2	352.2	349.9
55°	3489.8	2790.0	821.1	396.6	375.6	384.9	394.2	377.9	368.6	359.2	354.6
57.5°	3863.0	3020.9	734.8	366.2	356.9	373.2	391.9	380.2	368.6	361.6	359.2
60°	4117.3	3137.6	615.8	338.3	338.3	356.9	384.9	368.6	356.9	359.2	359.2
62.5°	4199.0	3093.2	487.5	312.6	319.6	338.3	363.9	354.6	349.9	361.6	361.6
65°	4077.7	2913.6	389.6	291.6	300.9	314.9	352.2	361.6	375.6	401.2	403.6
67°	3760.4	2624.4	328.9	275.3	284.6	307.9	366.2	398.9	398.9	426.9	426.9
67.5°	3667.1	2526.4	319.6	270.6	282.3	307.9	373.2	408.2	398.9	431.6	431.6
70°	2981.3	1987.5	270.6	256.6	272.9	324.3	403.6	410.6	389.6	419.9	417.6
72.5°	2211.5	1437.0	247.3	242.6	254.3	305.6	401.2	394.2	363.9	373.2	366.2
75°	1367.0	832.8	228.6	223.9	230.9	270.6	370.9	359.2	324.3	317.3	310.3
77.5°	660.2	422.2	196.0	203.0	209.9	235.6	326.6	314.9	284.6	268.3	265.9
80°	286.9	216.9	168.0	179.6	182.0	200.6	270.6	256.6	228.6	203.0	203.0
82.5°	142.3	121.3	133.0	149.3	144.6	161.0	212.3	189.0	168.0	140.0	135.3
85°	65.3	70.0	98.0	112.0	98.0	100.3	144.6	133.0	105.0	79.3	81.6
87.5°	23.3	32.7	56.0	67.7	49.0	46.7	77.0	56.0	32.7	9.3	11.7
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)