

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: P572897

Luminaire Tested: **ARCH-S-PA2-130-730-U-T2R**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P572897
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-PA2-130-730-U-T2R
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 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: 14816 lumens
Efficiency: N/A
Efficacy: 112.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

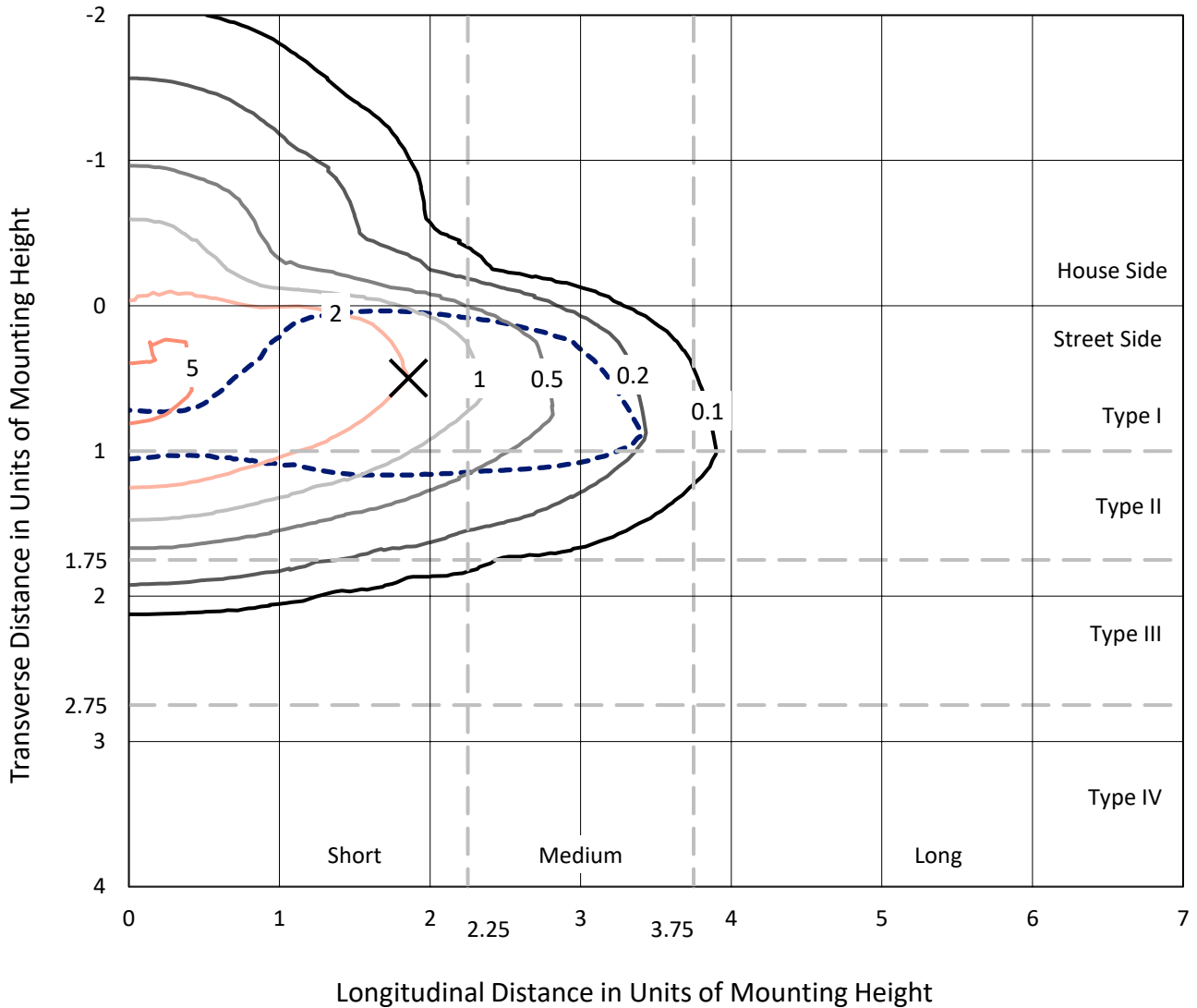
Input Watts (W): 131.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

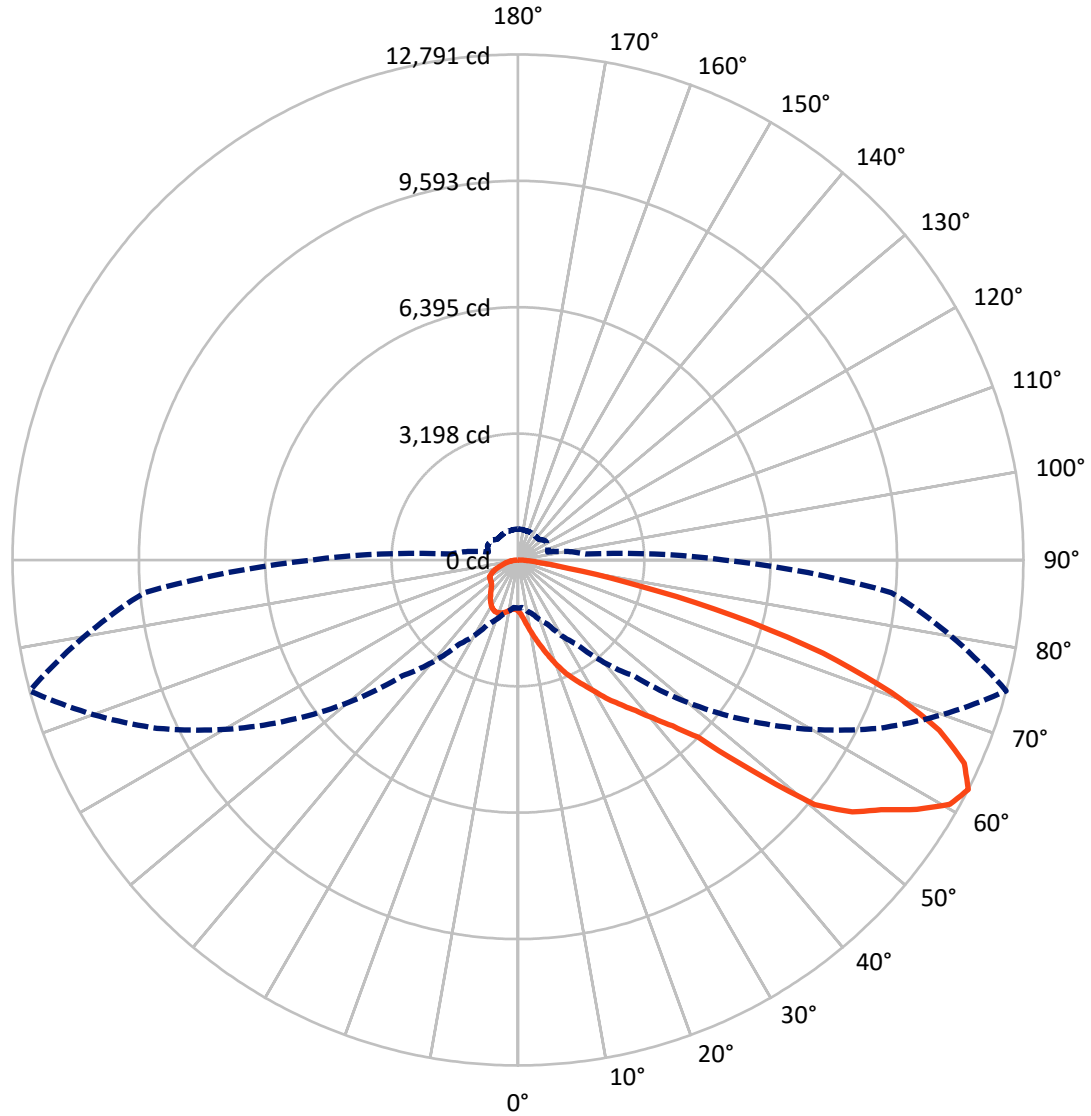
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 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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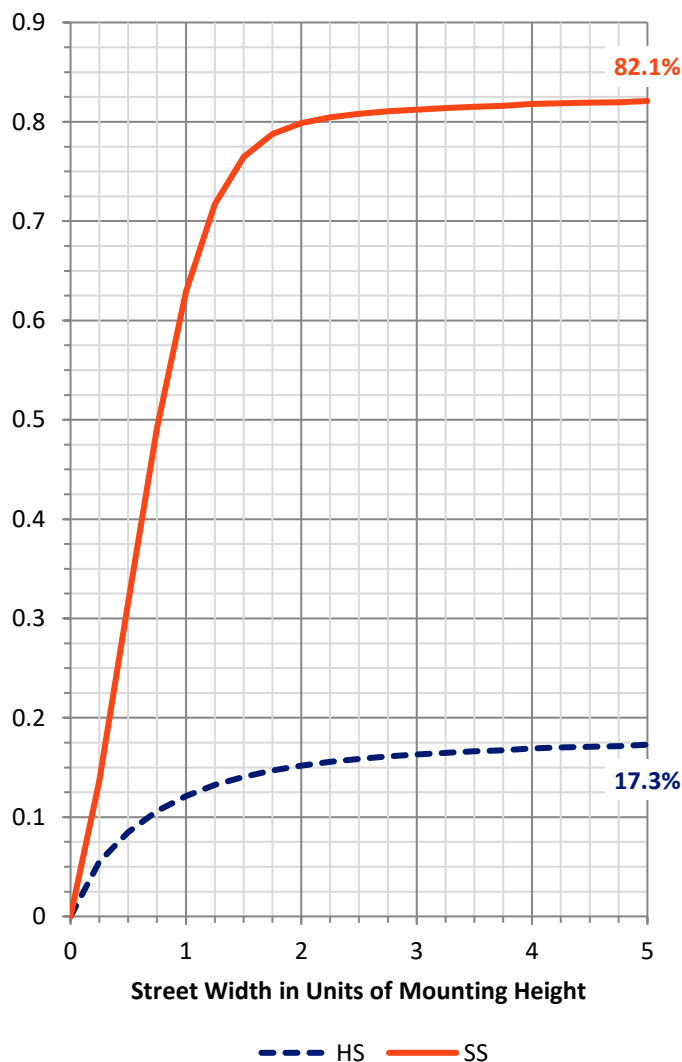
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2613.1	0.0	2613.1
	% Fixture	17.6	0.0	17.6
Street Side	Lumens	12202.9	0.0	12202.9
	% Fixture	82.4	0.0	82.4
Total	Lumens	14816.0	0.0	14816.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.1	1.0
10°-20°	613.1	4.1
20°-30°	1212.9	8.2
30°-40°	2021.8	13.6
40°-50°	2983.3	20.1
50°-60°	3586.3	24.2
60°-70°	2787.2	18.8
70°-80°	1233.0	8.3
80°-90°	223.2	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°	14816.0	100.0
0°-180°	14816.0	100.0

Coefficient of Utilization



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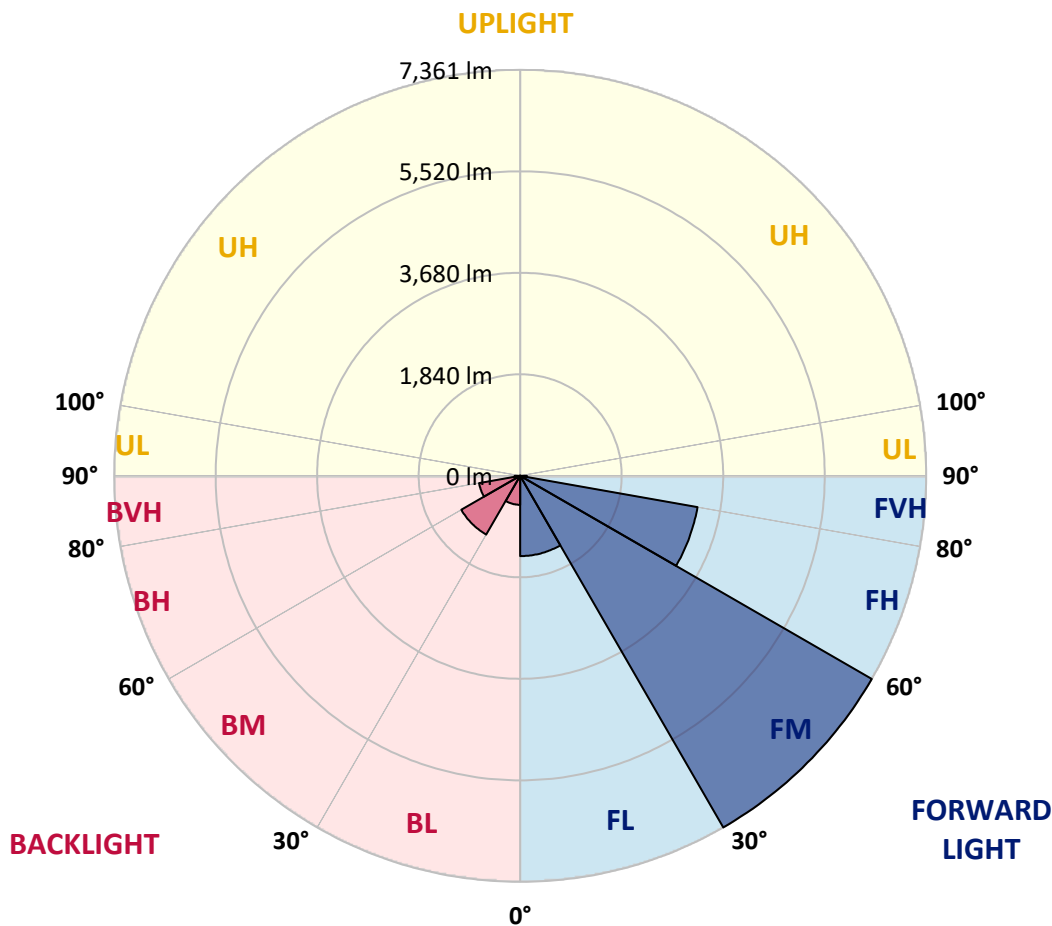
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1455.3	9.8			
FM (30°-60°)	7360.6	49.7			
FH (60°-80°)	3264.2	22.0			G2/5000
FVH (80°-90°)	122.7	0.8			G2/225
BL (0°-30°)	525.8	3.5	B2/1000		
BM (30°-60°)	1230.8	8.3	B2/2500		
BH (60°-80°)	756.0	5.1	B2/1000		G2/1000
BVH (80°-90°)	100.5	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°	1291.5	1291.5	1291.5	1291.5	1291.5	1291.5	1291.5	1291.5	1291.5	1291.5	1291.5
2.5°	1651.3	1603.3	1603.3	1551.4	1555.4	1511.4	1463.4	1415.4	1363.4	1323.4	1303.5
5°	2159.1	2123.1	2111.1	2051.1	1955.2	1847.2	1731.3	1611.3	1487.4	1391.4	1343.4
7.5°	2634.9	2606.9	2590.9	2522.9	2391.0	2275.1	2091.1	1871.2	1659.3	1479.4	1407.4
10°	2986.8	2966.8	2934.8	2902.8	2806.8	2706.9	2479.0	2167.1	1855.2	1587.3	1479.4
12.5°	3242.7	3214.7	3214.7	3210.7	3146.7	3054.7	2842.8	2507.0	2083.1	1707.3	1559.4
15°	3414.6	3410.6	3422.6	3446.6	3430.6	3370.6	3158.7	2818.8	2315.0	1843.2	1651.3
17.5°	3542.5	3526.5	3550.5	3614.5	3662.5	3638.5	3462.6	3118.7	2570.9	1991.2	1751.3
20°	3682.5	3650.5	3682.5	3762.4	3822.4	3858.4	3774.4	3406.6	2846.8	2151.1	1847.2
22.5°	3950.4	3946.4	3930.4	3954.4	3994.3	4058.3	4010.3	3698.5	3114.7	2311.0	1959.2
25°	4430.2	4386.2	4342.2	4290.2	4246.2	4266.2	4226.2	3970.3	3358.6	2487.0	2055.1
27.5°	4965.9	4918.0	4838.0	4710.0	4590.1	4518.1	4434.2	4206.2	3594.5	2646.9	2147.1
30°	5457.7	5441.7	5321.8	5181.8	4973.9	4842.0	4682.1	4478.1	3878.4	2822.8	2243.1
32.5°	5917.5	5885.6	5765.6	5617.7	5373.8	5225.8	5005.9	4774.0	4202.3	3038.7	2343.0
35°	6313.4	6281.4	6141.4	5953.5	5741.6	5613.7	5361.8	5037.9	4498.1	3226.7	2427.0
37.5°	6613.2	6577.3	6445.3	6261.4	6073.5	6013.5	5797.6	5373.8	4834.0	3462.6	2530.9
40°	6781.2	6737.2	6649.2	6521.3	6365.4	6337.4	6245.4	5789.6	5257.8	3750.4	2682.9
42.5°	6801.2	6761.2	6713.2	6701.2	6689.2	6713.2	6757.2	6261.4	5741.6	4134.3	2906.8
45°	6625.2	6601.3	6605.3	6741.2	6929.1	7149.0	7412.9	6957.1	6393.3	4866.0	3410.6
47.5°	6249.4	6237.4	6325.4	6553.3	6973.1	7472.9	8220.6	8148.6	7936.7	6045.5	4058.3
50°	5641.7	5621.7	5809.6	6169.4	6769.2	7580.8	8764.4	9552.0	9728.0	6961.1	4482.1
52.5°	4770.0	4794.0	5085.9	5577.7	6301.4	7464.9	8988.3	10127.8	10591.6	7636.8	4806.0
55°	3878.4	3842.4	4106.3	4714.0	5609.7	7041.1	9032.2	10459.6	11151.4	8260.6	5121.9
57.5°	2826.8	2914.8	3194.7	3746.4	4718.0	6273.4	8776.3	10687.6	11903.0	8884.3	5413.7
60°	1915.2	1915.2	2163.1	2714.9	3646.5	5341.8	8092.6	10603.6	12558.8	9372.1	5477.7
62.5°	1219.5	1207.5	1407.4	1799.3	2610.9	4150.3	7069.1	10075.8	12790.7	9488.1	5209.8
65°	771.7	787.7	859.6	1099.5	1671.3	2946.8	5673.6	9024.2	12410.8	9220.2	4742.0
67.5°	619.7	623.7	659.7	759.7	1027.6	1891.2	4206.2	7572.8	11503.2	8544.4	4194.3
70°	547.8	555.8	563.8	599.8	703.7	1195.5	2762.8	6097.5	10015.8	7368.9	3606.5
72.5°	499.8	507.8	515.8	523.8	579.8	779.7	1631.3	4622.1	8080.6	5661.6	2750.9
75°	459.8	467.8	467.8	471.8	503.8	579.8	895.6	3186.7	5625.7	3522.5	1715.3
77.5°	411.8	415.8	415.8	423.8	455.8	455.8	555.8	1971.2	3122.7	1595.3	867.6
80°	347.9	355.9	355.9	367.8	399.8	351.9	371.8	1007.6	1295.5	655.7	387.8
82.5°	255.9	271.9	279.9	299.9	319.9	267.9	267.9	507.8	547.8	291.9	207.9
85°	139.9	143.9	207.9	223.9	235.9	159.9	179.9	251.9	271.9	127.9	104.0
87.5°	40.0	44.0	100.0	123.9	112.0	68.0	76.0	96.0	96.0	36.0	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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1291.5	1291.5	1291.5	1291.5	1291.5	1291.5	1291.5	1291.5	1291.5	1291.5
2.5°	1287.5	1255.5	1227.5	1207.5	1187.5	1175.5	1171.5	1163.5	1163.5	1167.5
5°	1303.5	1247.5	1203.5	1179.5	1163.5	1155.5	1151.5	1151.5	1155.5	1155.5
7.5°	1343.4	1259.5	1219.5	1199.5	1183.5	1175.5	1175.5	1171.5	1175.5	1175.5
10°	1399.4	1295.5	1251.5	1227.5	1215.5	1203.5	1199.5	1195.5	1195.5	1195.5
12.5°	1459.4	1335.4	1287.5	1259.5	1239.5	1223.5	1215.5	1207.5	1203.5	1203.5
15°	1515.4	1375.4	1311.5	1279.5	1251.5	1227.5	1211.5	1199.5	1195.5	1195.5
17.5°	1575.3	1403.4	1327.4	1283.5	1247.5	1215.5	1195.5	1179.5	1171.5	1171.5
20°	1639.3	1423.4	1327.4	1271.5	1223.5	1191.5	1167.5	1151.5	1135.5	1135.5
22.5°	1691.3	1431.4	1311.5	1243.5	1195.5	1155.5	1131.5	1111.5	1099.5	1099.5
25°	1735.3	1423.4	1275.5	1199.5	1143.5	1107.5	1083.5	1067.6	1055.6	1055.6
27.5°	1763.3	1391.4	1231.5	1151.5	1099.5	1063.6	1047.6	1031.6	1023.6	1023.6
30°	1779.3	1351.4	1175.5	1099.5	1047.6	1027.6	1019.6	1003.6	991.6	987.6
32.5°	1787.3	1291.5	1119.5	1047.6	1011.6	1003.6	1003.6	983.6	967.6	963.6
35°	1779.3	1227.5	1063.6	1003.6	991.6	995.6	987.6	963.6	943.6	935.6
37.5°	1767.3	1151.5	1003.6	971.6	983.6	991.6	967.6	935.6	903.6	895.6
40°	1759.3	1083.5	955.6	939.6	975.6	979.6	935.6	875.6	851.6	843.6
42.5°	1799.3	1015.6	911.6	915.6	955.6	959.6	879.6	851.6	835.7	831.7
45°	1935.2	955.6	875.6	899.6	931.6	915.6	851.6	847.6	835.7	831.7
47.5°	2039.2	911.6	859.6	887.6	911.6	855.6	847.6	843.6	831.7	827.7
50°	2075.1	883.6	855.6	879.6	883.6	827.7	839.7	839.7	827.7	823.7
52.5°	2079.1	867.6	863.6	875.6	839.7	815.7	831.7	831.7	819.7	815.7
55°	2095.1	859.6	867.6	875.6	791.7	799.7	815.7	819.7	807.7	803.7
57.5°	2063.1	847.6	875.6	879.6	771.7	783.7	799.7	799.7	799.7	799.7
60°	1939.2	823.7	871.6	871.6	755.7	763.7	779.7	787.7	791.7	791.7
62.5°	1711.3	775.7	847.6	847.6	739.7	747.7	767.7	767.7	779.7	779.7
65°	1423.4	707.7	799.7	795.7	723.7	731.7	755.7	747.7	767.7	771.7
67.5°	1187.5	623.7	727.7	735.7	707.7	727.7	743.7	715.7	755.7	755.7
70°	947.6	523.8	631.7	667.7	679.7	731.7	719.7	675.7	727.7	715.7
72.5°	735.7	443.8	519.8	583.8	647.7	727.7	667.7	619.7	651.7	631.7
75°	535.8	367.8	427.8	483.8	603.7	715.7	615.7	543.8	543.8	535.8
77.5°	375.8	299.9	343.9	383.8	559.8	683.7	551.8	467.8	447.8	443.8
80°	255.9	235.9	271.9	295.9	495.8	619.7	475.8	387.8	351.9	343.9
82.5°	167.9	167.9	183.9	199.9	383.8	515.8	371.8	287.9	371.8	355.9
85°	96.0	100.0	100.0	116.0	211.9	363.8	263.9	287.9	171.9	159.9
87.5°	32.0	32.0	32.0	32.0	44.0	147.9	112.0	104.0	40.0	36.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)