

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: P573389

Luminaire Tested: **ARCH-S-PA2-70-730-U-T4W**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P573389
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-PA2-70-730-U-T4W
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 725mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9717 lumens
Efficiency: N/A
Efficacy: 132.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

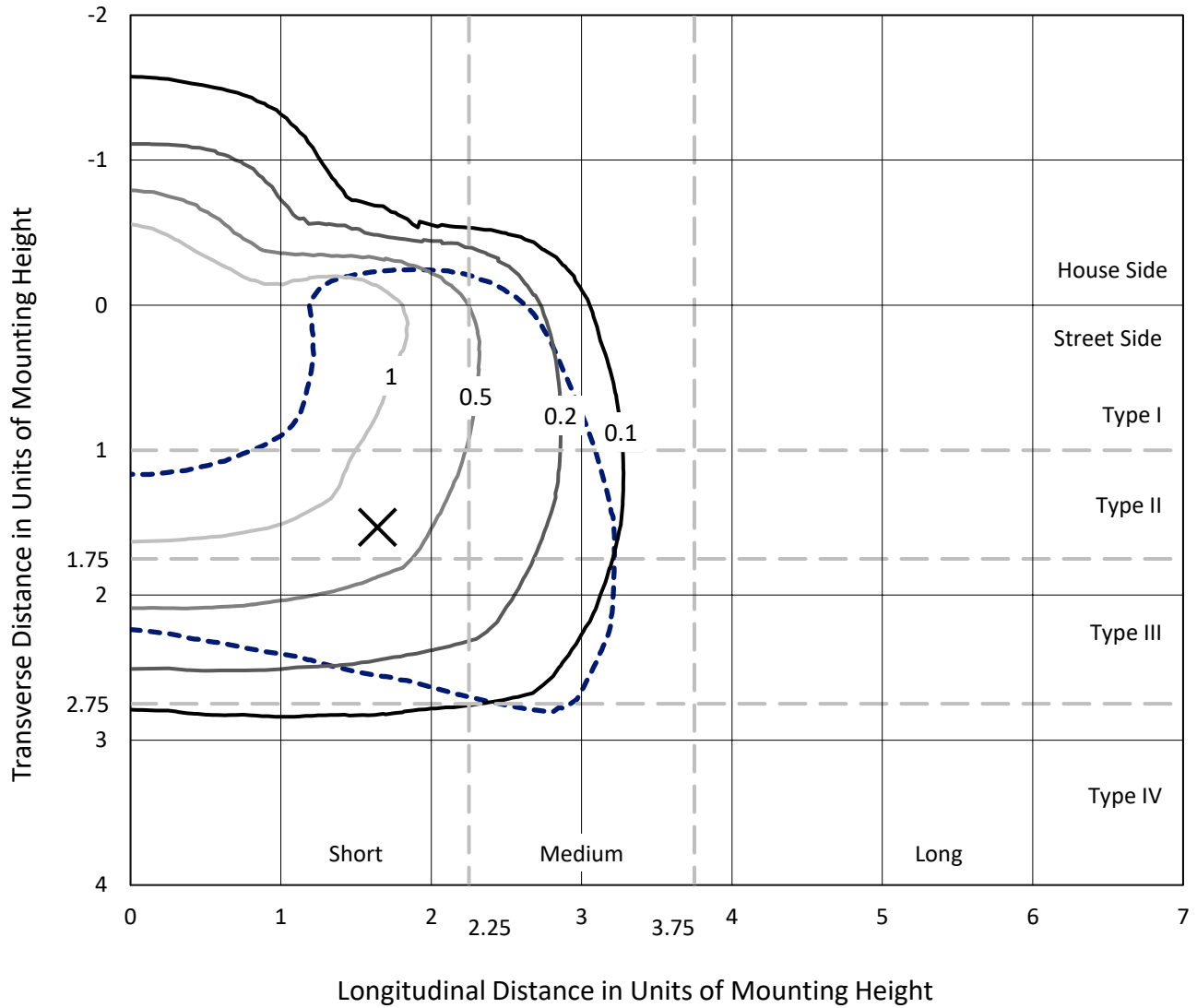
Input Watts (W): 73.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P573389
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Iso-Footcandle Lines of Horizontal Illumination

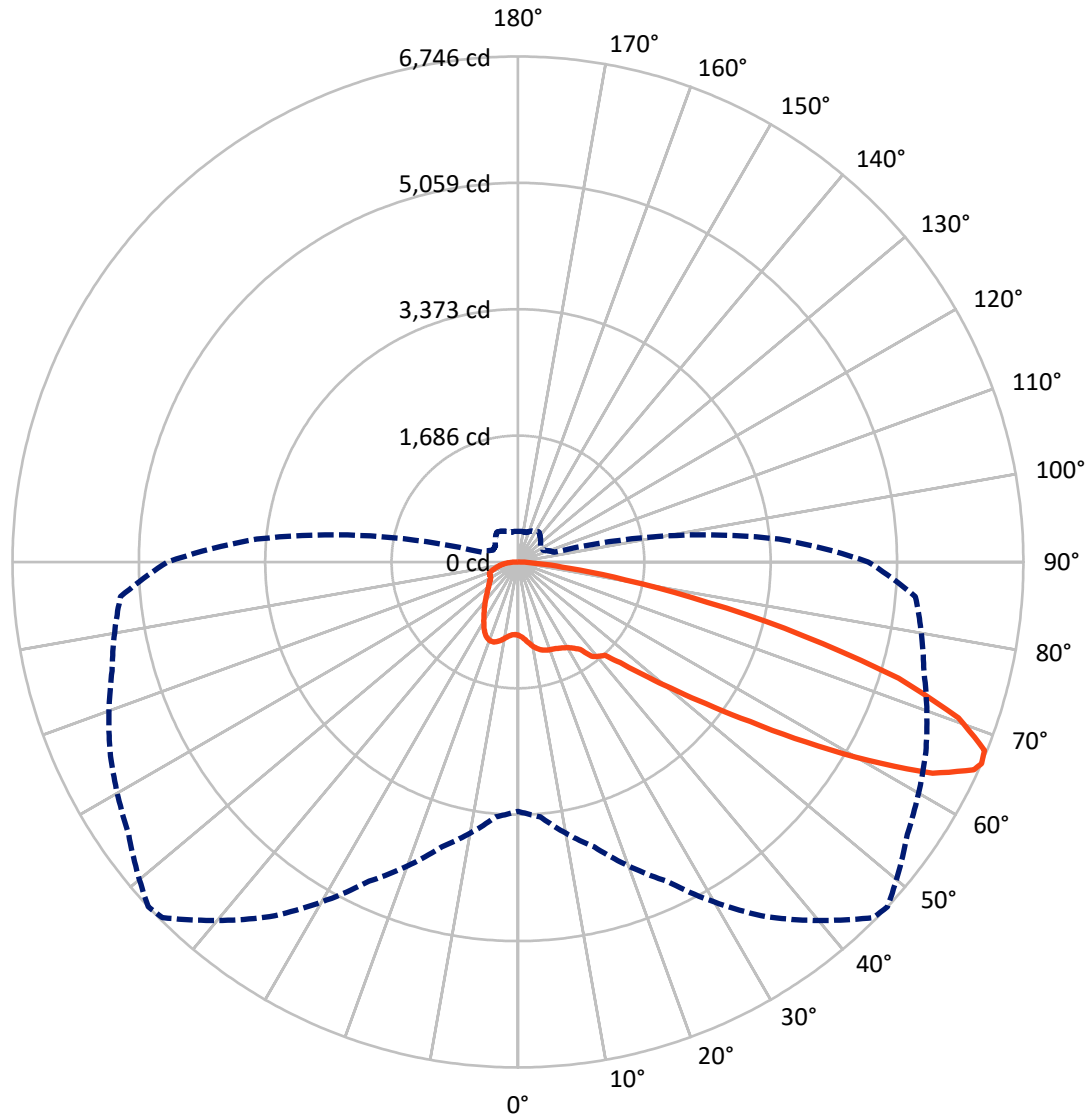
✕ Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P573389
CATALOG NUMBER: ARCH-S-PA2-70-730-U-T4W

Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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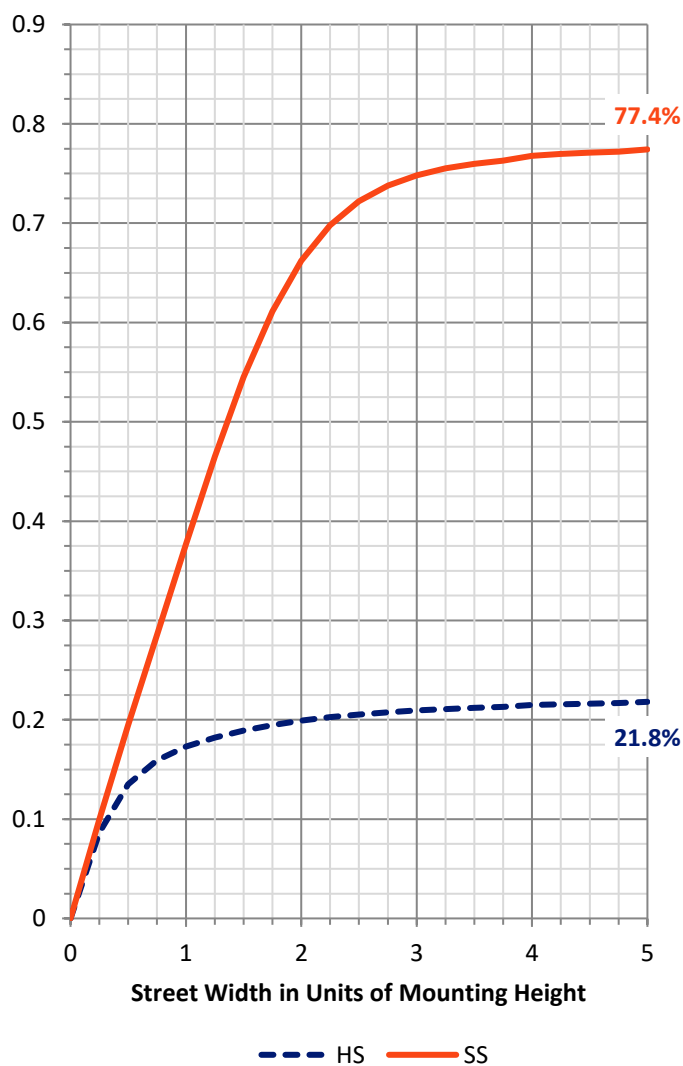
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2160.4	0.0	2160.4
	% Fixture	22.2	0.0	22.2
Street Side	Lumens	7556.6	0.0	7556.6
	% Fixture	77.8	0.0	77.8
Total	Lumens	9717.0	0.0	9717.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.4	1.0
10°-20°	326.1	3.4
20°-30°	543.9	5.6
30°-40°	789.9	8.1
40°-50°	1208.0	12.4
50°-60°	2283.5	23.5
60°-70°	2950.6	30.4
70°-80°	1326.3	13.6
80°-90°	189.2	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°	9717.0	100.0
0°-180°	9717.0	100.0

Coefficient of Utilization



REPORT NUMBER: P573389

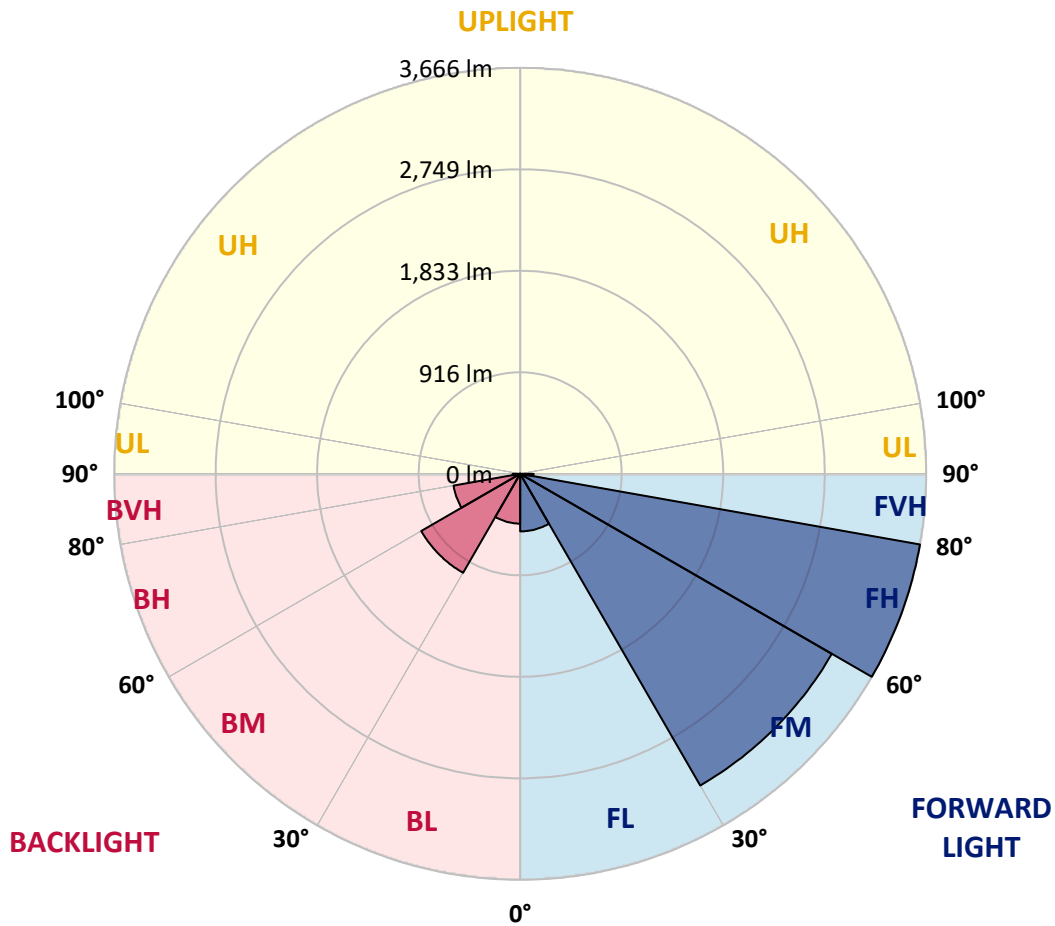
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	519.9	5.4			
FM (30°-60°)	3249.6	33.4			
FH (60°-80°)	3665.6	37.7			G2/5000
FVH (80°-90°)	121.6	1.3			G2/225
BL (0°-30°)	449.6	4.6	B1/500		
BM (30°-60°)	1031.9	10.6	B2/2500		
BH (60°-80°)	611.3	6.3	B2/1000		G2/1000
BVH (80°-90°)	67.6	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°	976.9	976.9	976.9	976.9	976.9	976.9	976.9	976.9	976.9	976.9	976.9
2.5°	1032.3	1024.4	1019.1	1016.5	1011.2	1000.6	1000.6	998.0	987.4	982.1	979.5
5°	1114.1	1108.9	1095.7	1085.1	1069.3	1048.1	1045.5	1029.7	1008.5	992.7	982.1
7.5°	1193.3	1188.1	1174.9	1159.0	1132.6	1106.2	1098.3	1077.2	1042.9	1019.1	1000.6
10°	1262.0	1254.1	1238.2	1217.1	1188.1	1159.0	1151.1	1127.3	1093.0	1058.7	1027.0
12.5°	1306.9	1301.6	1283.1	1256.7	1225.0	1196.0	1190.7	1169.6	1135.3	1098.3	1058.7
15°	1328.0	1325.4	1304.2	1277.8	1246.1	1222.4	1219.7	1201.3	1172.2	1135.3	1090.4
17.5°	1322.7	1320.1	1301.6	1275.2	1251.4	1238.2	1238.2	1225.0	1201.3	1169.6	1122.1
20°	1296.3	1296.3	1280.5	1262.0	1248.8	1246.1	1246.1	1243.5	1227.7	1201.3	1153.7
22.5°	1269.9	1269.9	1259.3	1246.1	1243.5	1254.1	1256.7	1262.0	1256.7	1235.6	1193.3
25°	1275.2	1272.6	1259.3	1243.5	1246.1	1269.9	1275.2	1288.4	1285.8	1269.9	1232.9
27.5°	1333.3	1330.6	1296.3	1264.6	1262.0	1291.0	1296.3	1314.8	1314.8	1301.6	1277.8
30°	1478.5	1483.8	1420.4	1341.2	1301.6	1320.1	1325.4	1346.5	1357.0	1362.3	1343.8
32.5°	1700.3	1692.3	1597.3	1467.9	1380.8	1362.3	1370.2	1388.7	1425.7	1436.2	1391.4
35°	1924.7	1929.9	1837.5	1673.9	1507.5	1438.9	1433.6	1460.0	1515.4	1467.9	1388.7
37.5°	2133.2	2125.3	2017.1	1840.2	1673.9	1594.6	1597.3	1586.7	1539.2	1444.2	1407.2
40°	2360.3	2339.2	2249.4	2022.4	1811.1	1679.1	1655.4	1565.6	1526.0	1486.4	1481.1
42.5°	2584.7	2587.3	2513.4	2289.0	1974.8	1739.9	1702.9	1610.5	1636.9	1629.0	1623.7
45°	2867.2	2867.2	2793.3	2584.7	2233.6	1966.9	1916.7	1805.9	1848.1	1879.8	1943.1
47.5°	3125.9	3110.1	3089.0	2912.1	2571.5	2262.6	2241.5	2114.8	2225.6	2323.3	2452.7
50°	3400.5	3379.4	3366.2	3257.9	3015.0	2711.4	2648.1	2516.1	2759.0	2941.1	3181.4
52.5°	3828.2	3791.2	3722.6	3661.9	3566.8	3215.7	3136.5	3038.8	3353.0	3582.7	4073.7
55°	4213.7	4182.0	4116.0	4160.9	4147.7	3828.2	3759.6	3667.2	4007.7	4287.6	4849.9
57.5°	4356.2	4358.9	4448.6	4688.9	4815.6	4630.8	4533.1	4440.7	4728.5	4857.9	5364.8
60°	4422.2	4414.3	4646.7	5037.4	5449.3	5504.7	5380.6	5190.5	5298.8	5306.7	5800.4
62.5°	4279.7	4300.8	4620.3	5182.6	5829.4	6228.1	6209.6	5877.0	5776.6	5665.8	5916.6
65°	3738.4	3767.5	4237.4	4923.9	5890.2	6666.4	6684.8	6296.7	6016.9	5708.0	5586.5
66°	3326.6	3413.7	3936.5	4699.5	5779.3	6711.3	6745.6	6341.6	6006.3	5607.7	5325.2
67.5°	2790.6	2785.4	3368.8	4205.8	5470.4	6671.6	6716.5	6278.3	5863.8	5312.0	4802.4
70°	1708.2	1761.0	2262.6	3139.1	4527.9	6177.9	6238.7	5832.1	5248.6	4498.8	3551.0
72.5°	876.5	963.7	1293.7	2040.8	3287.0	5106.0	5312.0	4897.5	4290.2	3255.3	2167.6
75°	464.7	459.4	609.9	1106.2	2098.9	3830.9	3939.1	3672.4	2964.9	1940.5	1103.6
77.5°	248.2	261.4	319.5	567.6	1153.7	2447.4	2584.7	2368.2	1689.7	992.7	528.0
80°	169.0	176.9	216.5	319.5	625.7	1328.0	1454.7	1262.0	884.4	469.9	248.2
82.5°	108.2	113.5	147.8	198.0	374.9	644.2	678.5	646.8	433.0	266.7	150.5
85°	66.0	68.6	89.8	126.7	235.0	261.4	271.9	274.6	242.9	174.2	81.8
87.5°	31.7	34.3	50.2	63.4	110.9	95.0	87.1	89.8	134.6	103.0	37.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P573389

CATALOG NUMBER: ARCH-S-PA2-70-730-U-T4W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	976.9	976.9	976.9	976.9	976.9	976.9	976.9	976.9	976.9	976.9	976.9
2.5°	976.9	974.2	968.9	966.3	968.9	968.9	968.9	971.6	976.9	976.9	979.5
5°	976.9	971.6	966.3	966.3	971.6	976.9	982.1	992.7	998.0	1000.6	1000.6
7.5°	990.1	984.8	979.5	979.5	987.4	998.0	1008.5	1021.7	1034.9	1045.5	1045.5
10°	1016.5	1008.5	1003.3	1005.9	1019.1	1032.3	1045.5	1061.3	1074.5	1087.7	1087.7
12.5°	1045.5	1037.6	1029.7	1034.9	1053.4	1069.3	1082.5	1090.4	1103.6	1114.1	1114.1
15°	1074.5	1061.3	1058.7	1069.3	1087.7	1098.3	1103.6	1103.6	1108.9	1119.4	1119.4
17.5°	1106.2	1093.0	1090.4	1100.9	1116.8	1116.8	1106.2	1098.3	1095.7	1103.6	1106.2
20°	1137.9	1124.7	1124.7	1132.6	1130.0	1111.5	1093.0	1079.8	1069.3	1077.2	1079.8
22.5°	1177.5	1164.3	1159.0	1148.5	1124.7	1087.7	1058.7	1042.9	1034.9	1040.2	1045.5
25°	1217.1	1206.5	1193.3	1156.4	1100.9	1042.9	1005.9	992.7	995.3	1005.9	1011.2
27.5°	1267.3	1262.0	1230.3	1151.1	1058.7	979.5	942.5	939.9	950.5	966.3	974.2
30°	1328.0	1320.1	1264.6	1135.3	1000.6	905.6	879.2	884.4	900.3	913.5	921.4
32.5°	1370.2	1365.0	1280.5	1098.3	929.3	839.6	818.4	818.4	826.4	844.8	852.8
35°	1383.4	1404.6	1291.0	1042.9	844.8	781.5	760.4	747.2	747.2	763.0	768.3
37.5°	1428.3	1475.8	1296.3	968.9	776.2	728.7	702.3	678.5	670.6	668.0	668.0
40°	1531.3	1586.7	1293.7	873.9	710.2	675.9	644.2	617.8	596.7	567.6	570.3
42.5°	1710.8	1753.1	1285.8	773.6	652.1	628.4	596.7	565.0	530.7	499.0	496.3
45°	2056.7	1993.3	1264.6	686.4	599.3	586.1	557.1	520.1	477.9	448.8	448.8
47.5°	2603.2	2428.9	1251.4	604.6	551.8	549.2	522.7	483.1	440.9	419.8	417.1
50°	3353.0	3030.9	1272.6	546.5	509.5	517.5	496.3	459.4	425.1	406.6	403.9
52.5°	4213.7	3677.7	1296.3	509.5	477.9	493.7	483.1	448.8	414.5	398.7	396.0
55°	4879.0	4203.1	1262.0	475.2	446.2	469.9	469.9	438.3	409.2	393.4	393.4
57.5°	5346.3	4414.3	1143.2	443.5	419.8	448.8	456.7	433.0	406.6	401.3	401.3
60°	5546.9	4403.8	934.6	414.5	401.3	427.7	448.8	427.7	411.9	425.1	427.7
62.5°	5438.7	4174.1	726.0	393.4	388.1	422.4	456.7	448.8	430.3	440.9	446.2
65°	4950.3	3770.1	546.5	374.9	372.3	425.1	477.9	462.0	417.1	419.8	422.4
66°	4675.7	3498.2	501.6	369.6	367.0	427.7	488.4	456.7	406.6	411.9	409.2
67.5°	4089.6	3070.5	440.9	359.1	356.4	427.7	501.6	446.2	393.4	401.3	393.4
70°	2999.2	2172.8	377.5	345.9	340.6	419.8	499.0	425.1	364.3	359.1	345.9
72.5°	1739.9	1314.8	335.3	330.0	316.8	369.6	467.3	390.7	332.7	316.8	303.6
75°	855.4	668.0	298.3	311.5	277.2	324.7	422.4	361.7	306.3	285.1	277.2
77.5°	393.4	337.9	269.3	285.1	245.5	279.9	385.5	330.0	271.9	240.3	232.3
80°	213.9	211.2	227.1	237.6	205.9	245.5	340.6	287.8	229.7	195.4	184.8
82.5°	132.0	134.6	166.3	182.2	161.0	213.9	301.0	240.3	174.2	137.3	139.9
85°	68.6	76.6	110.9	121.4	105.6	158.4	227.1	161.0	97.7	71.3	71.3
87.5°	23.8	31.7	55.4	66.0	58.1	95.0	142.6	76.6	21.1	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)