

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: P573470

Luminaire Tested: **ARCH-S-PA2-80-730-U-T4W**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P573470
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-PA2-80-730-U-T4W
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 820mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10739 lumens
Efficiency: N/A
Efficacy: 129.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

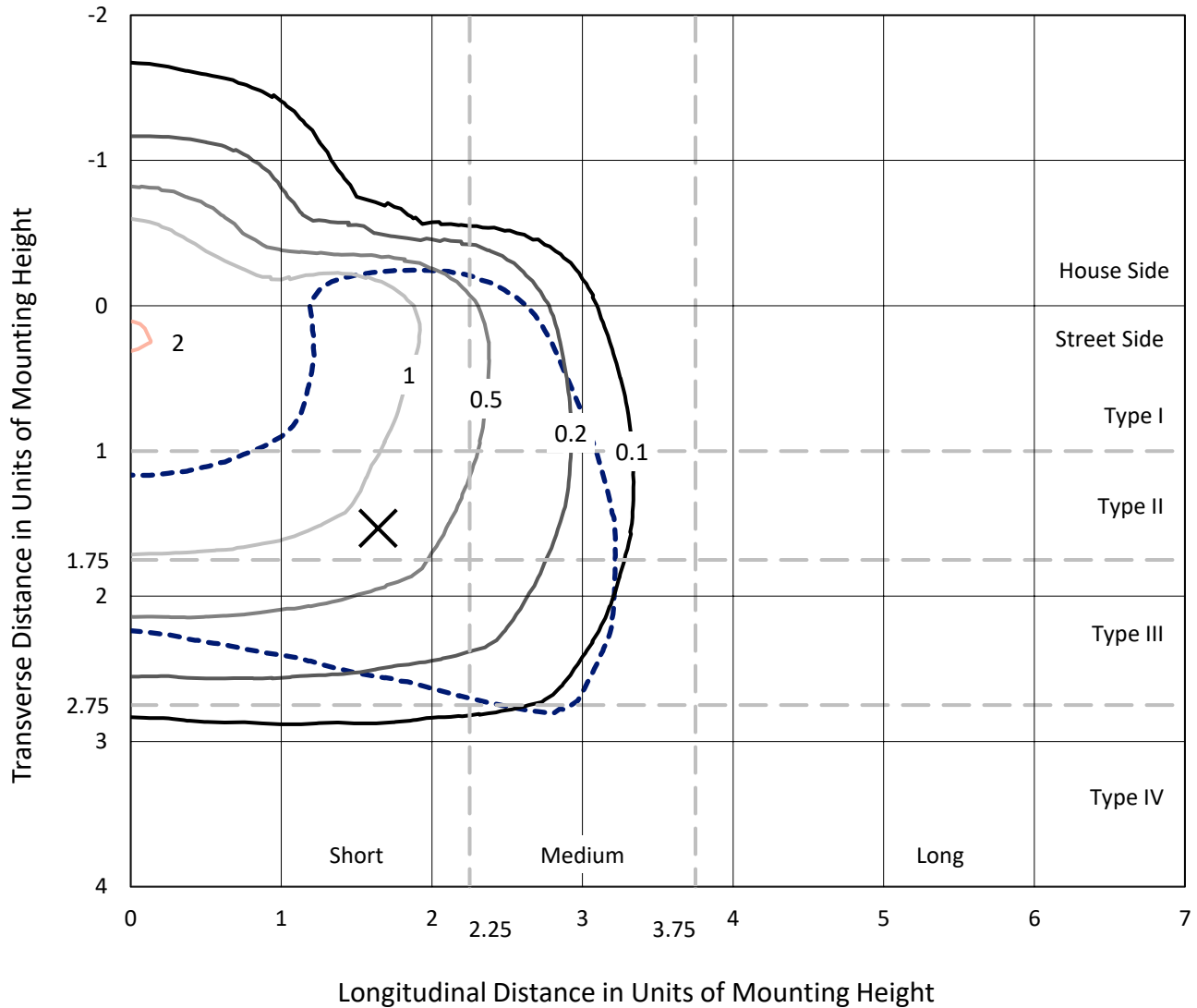
Input Watts (W): 83
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

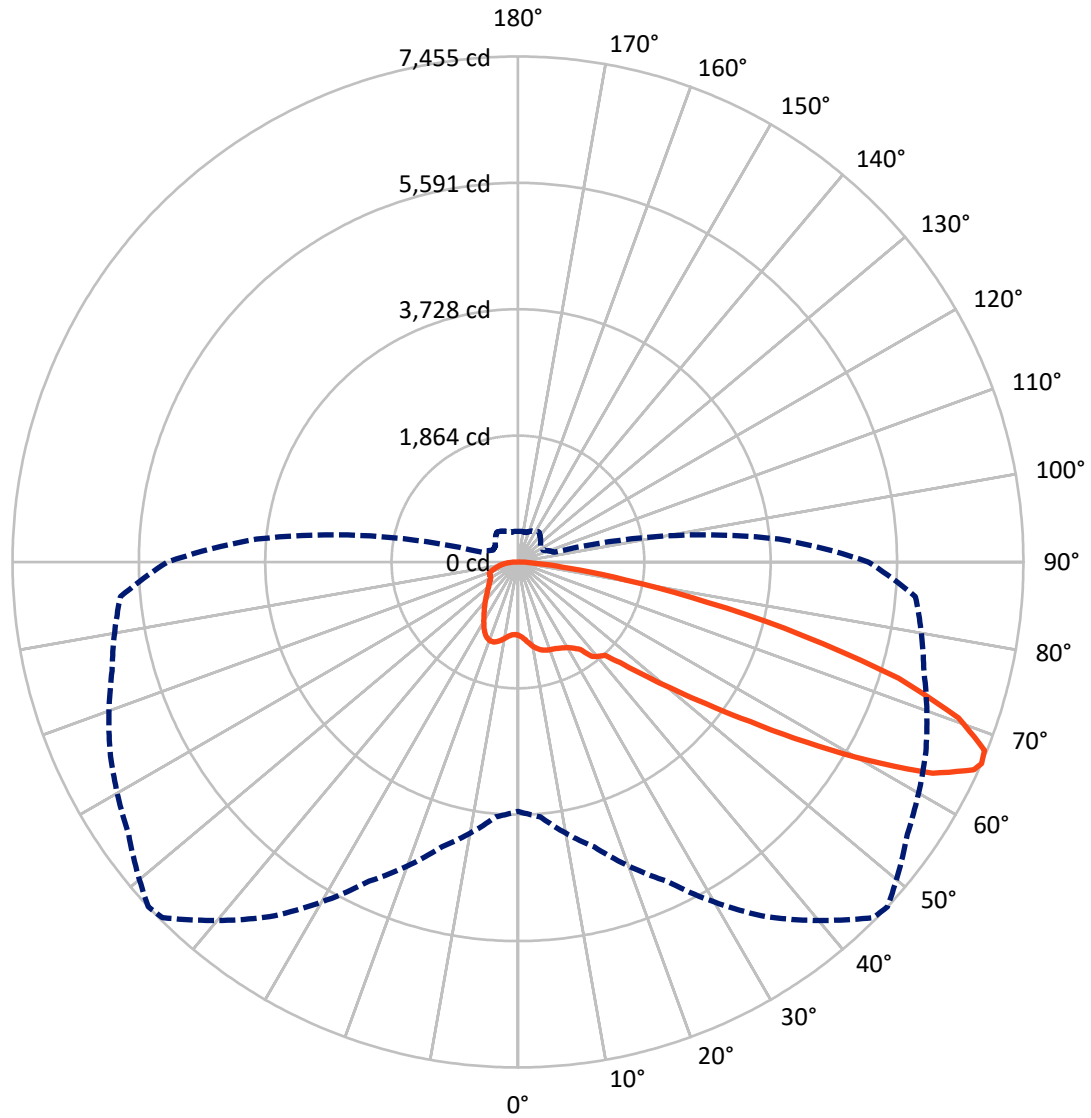
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 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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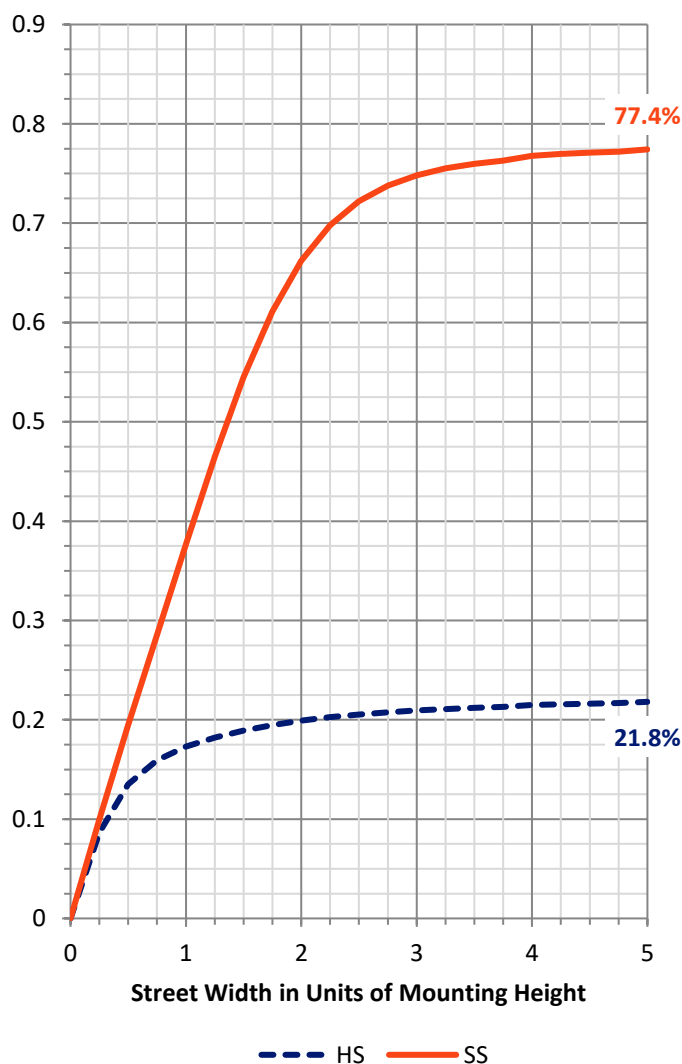
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2387.6	0.0	2387.6
	% Fixture	22.2	0.0	22.2
Street Side	Lumens	8351.4	0.0	8351.4
	% Fixture	77.8	0.0	77.8
Total	Lumens	10739.0	0.0	10739.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.8	1.0
10°-20°	360.4	3.4
20°-30°	601.1	5.6
30°-40°	873.0	8.1
40°-50°	1335.1	12.4
50°-60°	2523.7	23.5
60°-70°	3260.9	30.4
70°-80°	1465.8	13.6
80°-90°	209.1	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°	10739.0	100.0
0°-180°	10739.0	100.0

Coefficient of Utilization



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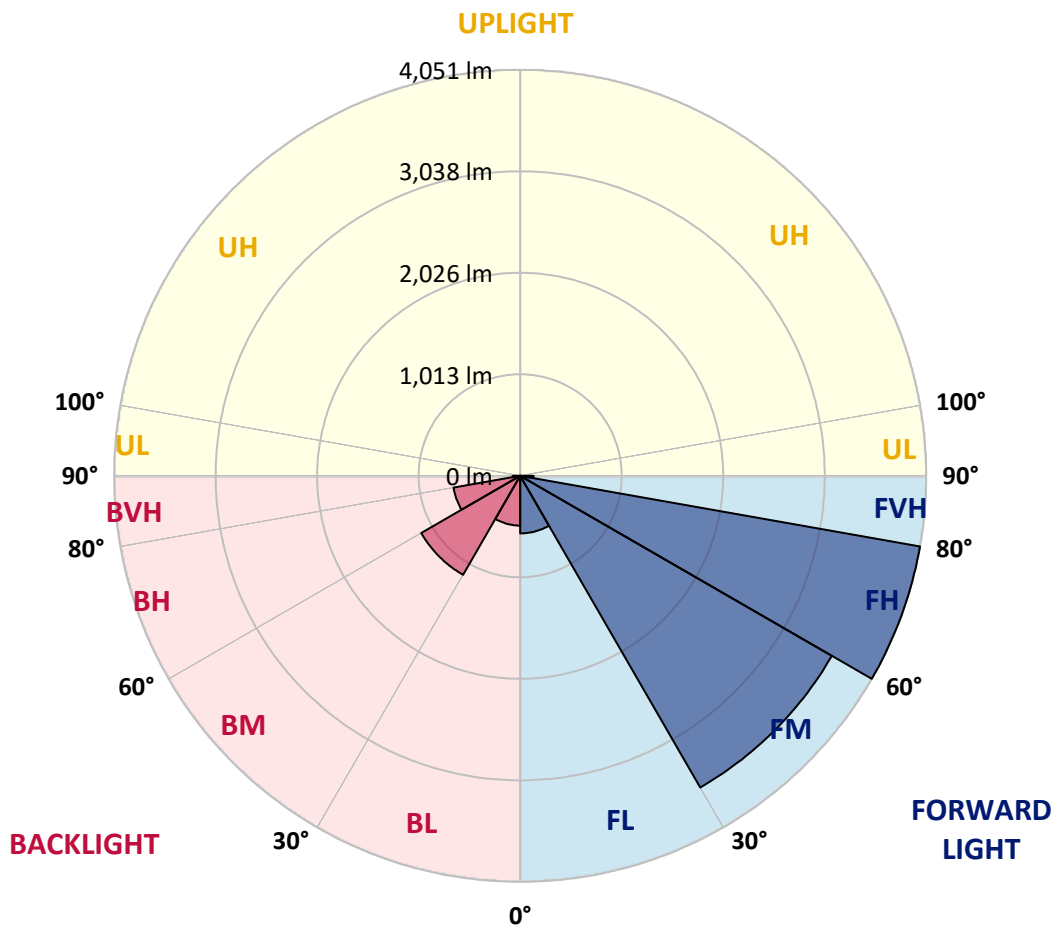
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	574.6	5.4			
FM (30°-60°)	3591.3	33.4			
FH (60°-80°)	4051.2	37.7			G2/5000
FVH (80°-90°)	134.3	1.3			G2/225
BL (0°-30°)	496.9	4.6	B1/500		
BM (30°-60°)	1140.4	10.6	B2/2500		
BH (60°-80°)	675.6	6.3	B2/1000		G2/1000
BVH (80°-90°)	74.7	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°	1079.6	1079.6	1079.6	1079.6	1079.6	1079.6	1079.6	1079.6	1079.6	1079.6	1079.6
2.5°	1140.9	1132.1	1126.3	1123.4	1117.5	1105.9	1105.9	1102.9	1091.3	1085.4	1082.5
5°	1231.3	1225.5	1210.9	1199.2	1181.7	1158.4	1155.5	1138.0	1114.6	1097.1	1085.4
7.5°	1318.9	1313.0	1298.4	1280.9	1251.7	1222.6	1213.8	1190.5	1152.5	1126.3	1105.9
10°	1394.7	1386.0	1368.5	1345.1	1313.0	1280.9	1272.2	1245.9	1208.0	1170.0	1135.0
12.5°	1444.3	1438.5	1418.1	1388.9	1353.9	1321.8	1315.9	1292.6	1254.7	1213.8	1170.0
15°	1467.7	1464.7	1441.4	1412.2	1377.2	1351.0	1348.0	1327.6	1295.5	1254.7	1205.1
17.5°	1461.8	1458.9	1438.5	1409.3	1383.1	1368.5	1368.5	1353.9	1327.6	1292.6	1240.1
20°	1432.7	1432.7	1415.1	1394.7	1380.1	1377.2	1377.2	1374.3	1356.8	1327.6	1275.1
22.5°	1403.5	1403.5	1391.8	1377.2	1374.3	1386.0	1388.9	1394.7	1388.9	1365.5	1318.9
25°	1409.3	1406.4	1391.8	1374.3	1377.2	1403.5	1409.3	1423.9	1421.0	1403.5	1362.6
27.5°	1473.5	1470.6	1432.7	1397.6	1394.7	1426.8	1432.7	1453.1	1453.1	1438.5	1412.2
30°	1634.0	1639.8	1569.8	1482.3	1438.5	1458.9	1464.7	1488.1	1499.8	1505.6	1485.2
32.5°	1879.1	1870.3	1765.3	1622.3	1526.0	1505.6	1514.4	1534.8	1575.6	1587.3	1537.7
35°	2127.1	2132.9	2030.8	1849.9	1666.1	1590.2	1584.4	1613.6	1674.8	1622.3	1534.8
37.5°	2357.6	2348.9	2229.2	2033.7	1849.9	1762.4	1765.3	1753.6	1701.1	1596.1	1555.2
40°	2608.5	2585.2	2486.0	2235.1	2001.6	1855.7	1829.5	1730.3	1686.5	1642.7	1636.9
42.5°	2856.6	2859.5	2777.8	2529.8	2182.5	1922.8	1882.0	1779.9	1809.1	1800.3	1794.5
45°	3168.8	3168.8	3087.1	2856.6	2468.5	2173.8	2118.3	1995.8	2042.5	2077.5	2147.5
47.5°	3454.7	3437.2	3413.9	3218.4	2842.0	2500.6	2477.2	2337.2	2459.7	2567.7	2710.7
50°	3758.2	3734.8	3720.2	3600.6	3332.2	2996.6	2926.6	2780.7	3049.1	3250.5	3516.0
52.5°	4230.8	4190.0	4114.1	4047.0	3942.0	3553.9	3466.4	3358.4	3705.6	3959.5	4502.2
55°	4656.9	4621.8	4548.9	4598.5	4583.9	4230.8	4155.0	4052.9	4429.3	4738.6	5360.0
57.5°	4814.4	4817.3	4916.5	5182.1	5322.1	5117.9	5009.9	4907.8	5225.8	5368.8	5929.0
60°	4887.4	4878.6	5135.4	5567.2	6022.4	6083.7	5946.5	5736.4	5856.1	5864.8	6410.5
62.5°	4729.8	4753.1	5106.2	5727.7	6442.6	6883.2	6862.7	6495.1	6384.2	6261.7	6538.9
65°	4131.6	4163.7	4683.1	5441.7	6509.7	7367.5	7387.9	6959.0	6649.7	6308.3	6174.1
66°	3676.5	3772.8	4350.5	5193.7	6387.1	7417.1	7455.0	7008.6	6638.1	6197.5	5885.3
67.5°	3084.1	3078.3	3723.1	4648.1	6045.7	7373.3	7423.0	6938.6	6480.5	5870.7	5307.5
70°	1887.8	1946.2	2500.6	3469.3	5004.1	6827.7	6894.8	6445.5	5800.6	4972.0	3924.5
72.5°	968.7	1065.0	1429.7	2255.5	3632.7	5643.1	5870.7	5412.6	4741.5	3597.7	2395.5
75°	513.5	507.7	674.0	1222.6	2319.7	4233.8	4353.4	4058.7	3276.7	2144.6	1219.7
77.5°	274.3	288.9	353.1	627.3	1275.1	2704.8	2856.6	2617.3	1867.4	1097.1	583.6
80°	186.7	195.5	239.3	353.1	691.5	1467.7	1607.7	1394.7	977.5	519.4	274.3
82.5°	119.6	125.5	163.4	218.8	414.3	711.9	749.9	714.9	478.5	294.7	166.3
85°	72.9	75.9	99.2	140.1	259.7	288.9	300.5	303.5	268.4	192.6	90.5
87.5°	35.0	37.9	55.4	70.0	122.5	105.0	96.3	99.2	148.8	113.8	40.8
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°	1079.6	1079.6	1079.6	1079.6	1079.6	1079.6	1079.6	1079.6	1079.6	1079.6	1079.6
2.5°	1079.6	1076.7	1070.8	1067.9	1070.8	1070.8	1070.8	1073.8	1079.6	1079.6	1082.5
5°	1079.6	1073.8	1067.9	1067.9	1073.8	1079.6	1085.4	1097.1	1102.9	1105.9	1105.9
7.5°	1094.2	1088.3	1082.5	1082.5	1091.3	1102.9	1114.6	1129.2	1143.8	1155.5	1155.5
10°	1123.4	1114.6	1108.8	1111.7	1126.3	1140.9	1155.5	1173.0	1187.6	1202.1	1202.1
12.5°	1155.5	1146.7	1138.0	1143.8	1164.2	1181.7	1196.3	1205.1	1219.7	1231.3	1231.3
15°	1187.6	1173.0	1170.0	1181.7	1202.1	1213.8	1219.7	1219.7	1225.5	1237.2	1237.2
17.5°	1222.6	1208.0	1205.1	1216.7	1234.2	1234.2	1222.6	1213.8	1210.9	1219.7	1222.6
20°	1257.6	1243.0	1243.0	1251.7	1248.8	1228.4	1208.0	1193.4	1181.7	1190.5	1193.4
22.5°	1301.4	1286.8	1280.9	1269.3	1243.0	1202.1	1170.0	1152.5	1143.8	1149.6	1155.5
25°	1345.1	1333.4	1318.9	1278.0	1216.7	1152.5	1111.7	1097.1	1100.0	1111.7	1117.5
27.5°	1400.6	1394.7	1359.7	1272.2	1170.0	1082.5	1041.7	1038.7	1050.4	1067.9	1076.7
30°	1467.7	1458.9	1397.6	1254.7	1105.9	1000.8	971.6	977.5	995.0	1009.6	1018.3
32.5°	1514.4	1508.5	1415.1	1213.8	1027.1	927.9	904.5	904.5	913.3	933.7	942.5
35°	1528.9	1552.3	1426.8	1152.5	933.7	863.7	840.3	825.7	825.7	843.3	849.1
37.5°	1578.5	1631.1	1432.7	1070.8	857.8	805.3	776.1	749.9	741.1	738.2	738.2
40°	1692.3	1753.6	1429.7	965.8	784.9	747.0	711.9	682.8	659.4	627.3	630.3
42.5°	1890.8	1937.4	1421.0	854.9	720.7	694.4	659.4	624.4	586.5	551.5	548.6
45°	2273.0	2203.0	1397.6	758.6	662.3	647.8	615.7	574.8	528.1	496.0	496.0
47.5°	2877.0	2684.4	1383.1	668.2	609.8	606.9	577.7	534.0	487.3	463.9	461.0
50°	3705.6	3349.7	1406.4	604.0	563.1	571.9	548.6	507.7	469.8	449.3	446.4
52.5°	4656.9	4064.5	1432.7	563.1	528.1	545.6	534.0	496.0	458.1	440.6	437.7
55°	5392.1	4645.2	1394.7	525.2	493.1	519.4	519.4	484.4	452.3	434.8	434.8
57.5°	5908.6	4878.6	1263.4	490.2	463.9	496.0	504.8	478.5	449.3	443.5	443.5
60°	6130.4	4866.9	1032.9	458.1	443.5	472.7	496.0	472.7	455.2	469.8	472.7
62.5°	6010.7	4613.1	802.4	434.8	428.9	466.9	504.8	496.0	475.6	487.3	493.1
65°	5470.9	4166.7	604.0	414.3	411.4	469.8	528.1	510.6	461.0	463.9	466.9
66°	5167.5	3866.1	554.4	408.5	405.6	472.7	539.8	504.8	449.3	455.2	452.3
67.5°	4519.7	3393.4	487.3	396.8	393.9	472.7	554.4	493.1	434.8	443.5	434.8
70°	3314.7	2401.4	417.2	382.2	376.4	463.9	551.5	469.8	402.7	396.8	382.2
72.5°	1922.8	1453.1	370.6	364.7	350.1	408.5	516.5	431.8	367.6	350.1	335.6
75°	945.4	738.2	329.7	344.3	306.4	358.9	466.9	399.7	338.5	315.1	306.4
77.5°	434.8	373.5	297.6	315.1	271.4	309.3	426.0	364.7	300.5	265.5	256.8
80°	236.3	233.4	250.9	262.6	227.6	271.4	376.4	318.0	253.9	215.9	204.2
82.5°	145.9	148.8	183.8	201.3	178.0	236.3	332.6	265.5	192.6	151.7	154.6
85°	75.9	84.6	122.5	134.2	116.7	175.1	250.9	178.0	108.0	78.8	78.8
87.5°	26.3	35.0	61.3	72.9	64.2	105.0	157.6	84.6	23.3	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)