

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: P572791

Luminaire Tested: **ARCH-S-PA2-110-830-U-T2U**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P572791
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2108-332-15)
Test Lab: INNOVATION CENTER
Issue Date: 10/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-S-PA2-110-830-U-T2U
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 80 CRI, 3000K, 1105mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11804 lumens
Efficiency: N/A
Efficacy: 103.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

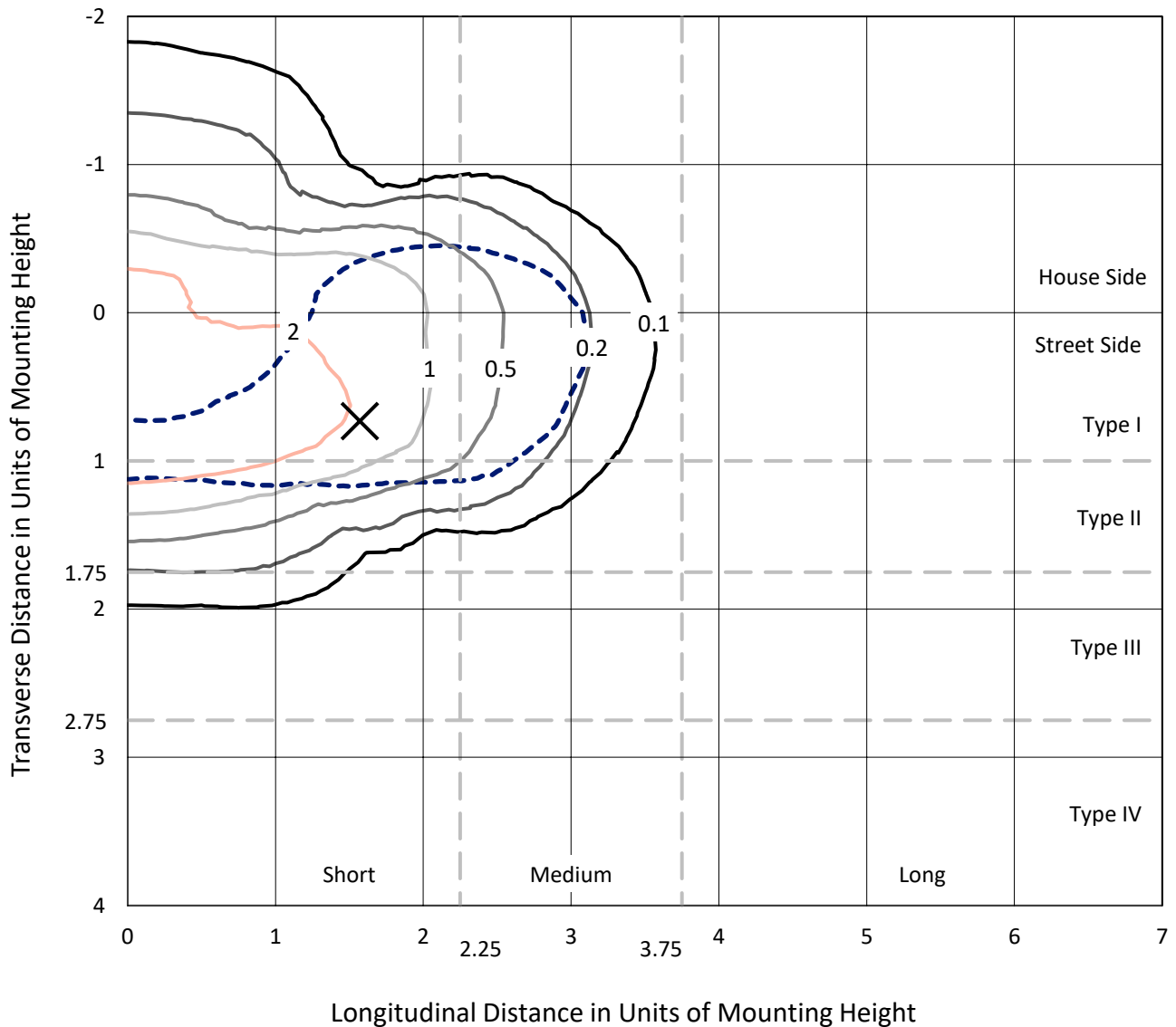
Input Watts (W): 114.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

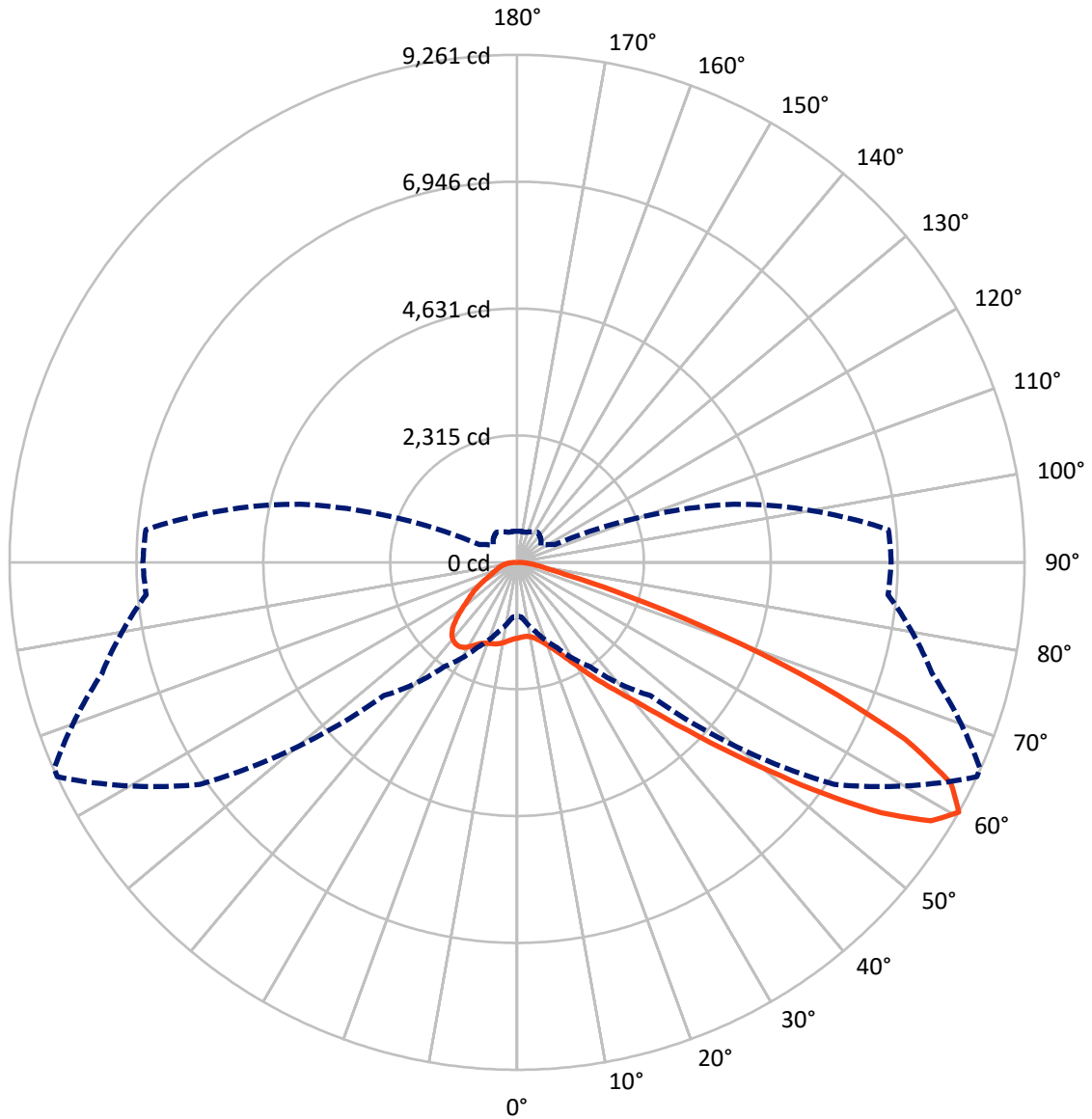
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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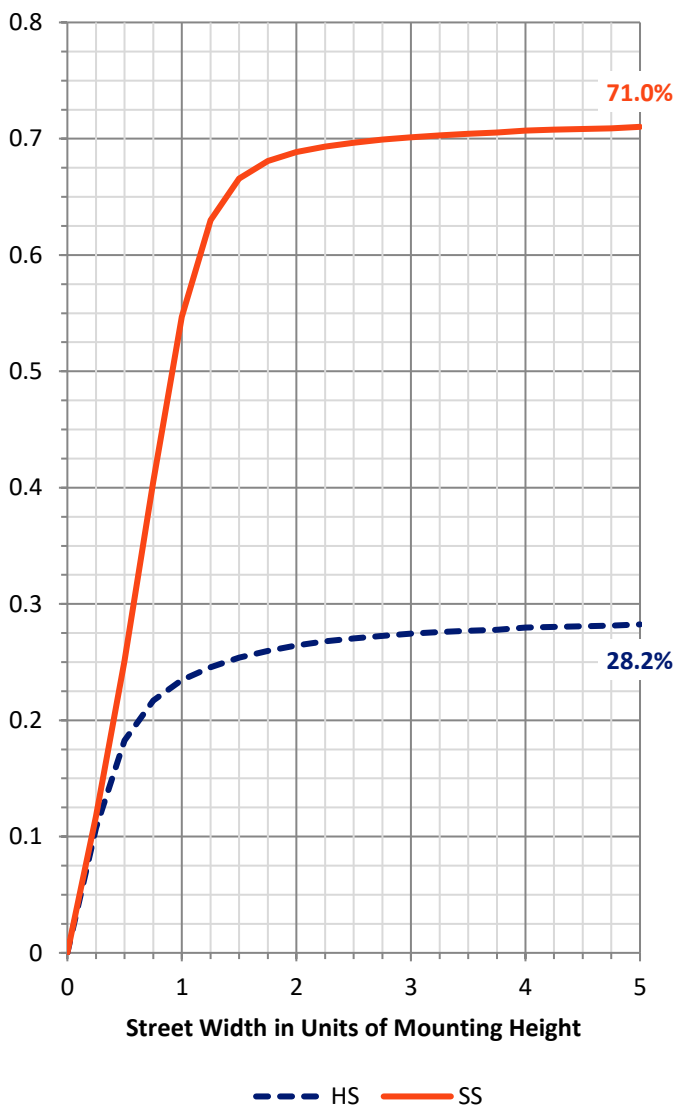
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3379.2	0.0	3379.2
	% Fixture	28.6	0.0	28.6
Street Side	Lumens	8424.8	0.0	8424.8
	% Fixture	71.4	0.0	71.4
Total	Lumens	11804.0	0.0	11804.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.8	1.1
10°-20°	430.6	3.6
20°-30°	825.5	7.0
30°-40°	1433.8	12.1
40°-50°	2431.7	20.6
50°-60°	3027.9	25.7
60°-70°	2440.0	20.7
70°-80°	923.9	7.8
80°-90°	156.7	1.3
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°	11804.0	100.0
0°-180°	11804.0	100.0

Coefficient of Utilization



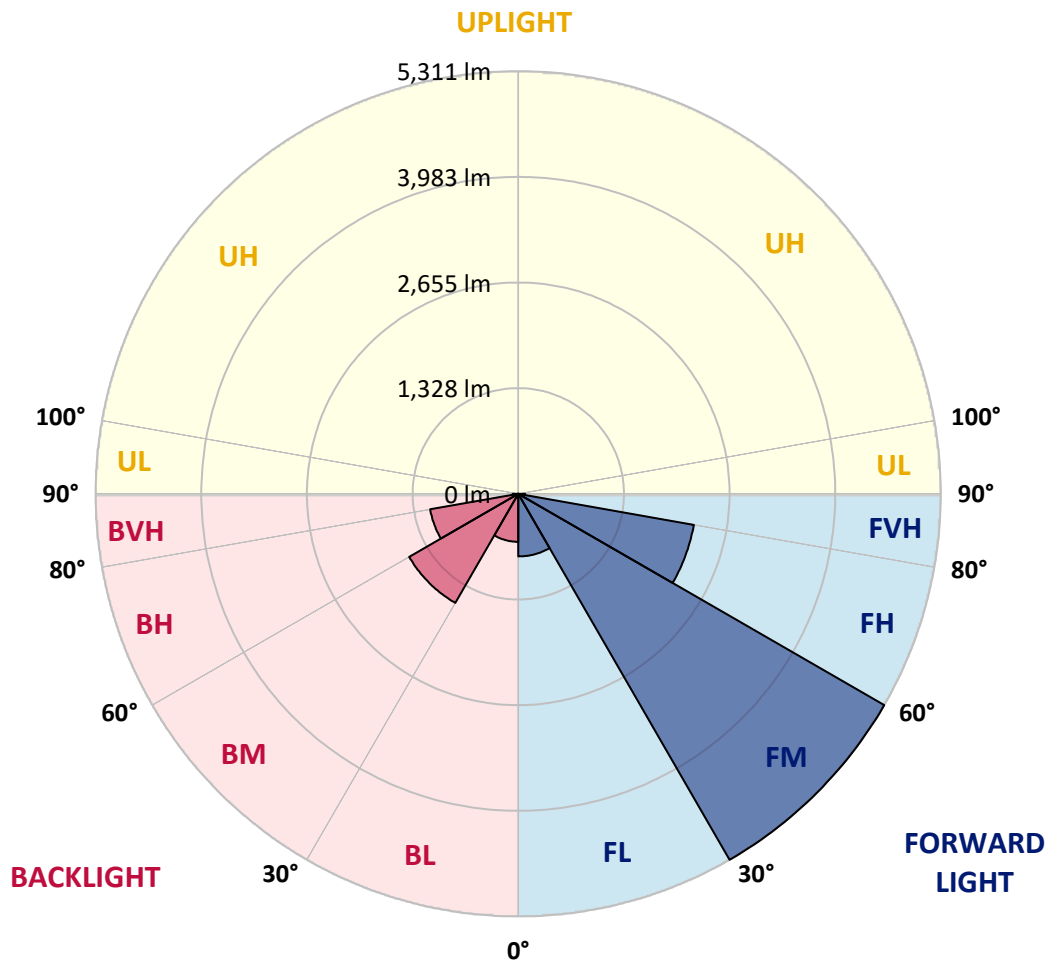
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	786.9	6.7			
FM (30°-60°)	5310.6	45.0			
FH (60°-80°)	2240.4	19.0			G2/5000
FVH (80°-90°)	86.9	0.7			G1/100
BL (0°-30°)	603.1	5.1	B2/1000		
BM (30°-60°)	1582.7	13.4	B2/2500		
BH (60°-80°)	1123.6	9.5	B3/2500		G3/2500
BVH (80°-90°)	69.8	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1385.0	1385.0	1385.0	1385.0	1385.0	1385.0	1385.0	1385.0	1385.0	1385.0	1385.0
2.5°	1352.6	1352.6	1352.6	1355.8	1359.1	1362.3	1368.8	1368.8	1368.8	1372.0	1378.5
5°	1326.7	1323.5	1326.7	1330.0	1336.4	1342.9	1355.8	1362.3	1362.3	1375.3	1388.2
7.5°	1330.0	1323.5	1323.5	1326.7	1333.2	1339.7	1352.6	1362.3	1365.5	1381.7	1404.4
10°	1362.3	1352.6	1352.6	1355.8	1355.8	1362.3	1372.0	1385.0	1388.2	1404.4	1427.0
12.5°	1430.3	1420.6	1417.3	1407.6	1397.9	1404.4	1414.1	1417.3	1420.6	1430.3	1452.9
15°	1572.6	1556.5	1530.6	1511.2	1485.3	1469.1	1465.9	1469.1	1469.1	1472.3	1485.3
17.5°	1776.5	1757.1	1718.3	1676.2	1614.7	1562.9	1546.8	1533.8	1533.8	1524.1	1524.1
20°	2025.7	1996.5	1951.2	1889.8	1799.2	1705.3	1650.3	1621.2	1611.5	1595.3	1572.6
22.5°	2313.7	2294.3	2236.0	2142.2	2006.3	1880.1	1789.5	1724.7	1724.7	1685.9	1637.4
25°	2653.4	2617.8	2549.9	2439.9	2255.4	2074.2	1951.2	1857.4	1847.7	1786.2	1708.6
27.5°	2983.5	2960.8	2876.7	2731.1	2511.1	2300.7	2129.2	2019.2	2003.0	1905.9	1786.2
30°	3384.7	3358.9	3232.7	3028.8	2792.6	2553.1	2352.5	2210.1	2193.9	2061.3	1893.0
32.5°	3883.1	3795.7	3640.4	3407.4	3103.2	2834.6	2604.9	2452.8	2433.4	2281.3	2080.7
35°	4488.2	4413.8	4145.2	3899.3	3536.8	3184.1	2909.1	2708.4	2682.6	2501.3	2248.9
37.5°	4915.3	4879.7	4695.3	4501.1	4086.9	3611.3	3274.7	2996.4	2970.6	2731.1	2404.3
40°	5183.9	5148.3	5096.5	5041.5	4811.8	4274.6	3714.8	3336.2	3294.1	3067.6	2714.9
42.5°	5323.1	5293.9	5303.6	5413.7	5478.4	5394.2	4342.6	3789.2	3760.1	3485.1	3093.5
45°	5242.2	5222.7	5316.6	5607.8	5924.9	6546.2	5148.3	4384.6	4307.0	3980.2	3553.0
47.5°	4853.8	4795.6	5015.6	5510.7	6190.3	7096.3	6119.1	5119.2	5035.1	4565.9	4019.0
50°	4054.6	4038.4	4339.3	4967.1	6086.7	7313.1	7157.8	5986.4	5924.9	5196.9	4536.7
52.5°	3310.3	3303.9	3536.8	4112.8	5426.6	7161.0	7911.8	7018.7	6834.2	5831.1	5099.8
55°	2569.3	2566.1	2773.2	3203.5	4329.6	6445.9	8267.7	8070.3	7934.4	6523.6	5679.0
57.5°	1757.1	1734.4	2003.0	2329.8	3252.1	5106.2	8034.7	8902.0	8817.8	7258.1	6293.8
60°	977.2	1009.6	1307.3	1711.8	2326.6	3439.8	7064.0	9261.1	9248.2	7843.8	6795.4
62.5°	692.5	705.4	831.6	1216.7	1530.6	1970.7	5449.3	8889.0	8992.6	8167.4	7080.1
65°	576.0	582.5	643.9	899.6	1119.6	1139.0	3397.7	7785.6	7921.5	8067.1	7141.6
67.5°	543.6	546.9	579.2	663.4	876.9	825.2	1517.6	5944.3	6232.3	7258.1	6740.4
70°	495.1	498.3	546.9	585.7	708.7	650.4	779.9	3947.8	4336.1	5737.2	5811.7
72.5°	423.9	433.6	472.4	550.1	576.0	540.4	601.9	2109.8	2494.9	3837.8	4488.2
75°	365.7	372.1	401.3	466.0	540.4	430.4	511.3	961.1	1126.1	2252.2	2841.1
77.5°	294.5	297.7	339.8	381.8	453.0	349.5	398.0	576.0	605.1	1100.2	1284.7
80°	223.3	223.3	252.4	304.2	336.5	336.5	291.2	401.3	417.4	524.2	508.0
82.5°	171.5	168.3	190.9	213.6	242.7	281.5	220.0	265.3	271.8	317.1	271.8
85°	113.3	113.3	126.2	145.6	161.8	155.3	171.5	155.3	161.8	197.4	148.9
87.5°	48.5	48.5	68.0	64.7	71.2	74.4	84.1	74.4	74.4	90.6	68.0
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°	1385.0	1385.0	1385.0	1385.0	1385.0	1385.0	1385.0	1385.0	1385.0	1385.0	1385.0
2.5°	1381.7	1385.0	1391.4	1394.7	1404.4	1407.6	1407.6	1414.1	1414.1	1420.6	1420.6
5°	1391.4	1401.1	1410.9	1420.6	1430.3	1433.5	1440.0	1443.2	1443.2	1449.7	1446.4
7.5°	1410.9	1420.6	1440.0	1449.7	1462.6	1469.1	1465.9	1469.1	1465.9	1469.1	1469.1
10°	1436.7	1449.7	1472.3	1485.3	1495.0	1498.2	1488.5	1478.8	1465.9	1465.9	1465.9
12.5°	1465.9	1475.6	1504.7	1514.4	1520.9	1511.2	1485.3	1465.9	1456.2	1459.4	1456.2
15°	1495.0	1504.7	1527.3	1537.1	1537.1	1507.9	1485.3	1478.8	1475.6	1478.8	1478.8
17.5°	1524.1	1533.8	1553.2	1553.2	1543.5	1520.9	1498.2	1475.6	1459.4	1449.7	1449.7
20°	1562.9	1562.9	1569.4	1569.4	1566.2	1530.6	1475.6	1420.6	1388.2	1368.8	1365.5
22.5°	1614.7	1601.8	1588.8	1588.8	1601.8	1507.9	1401.1	1317.0	1265.2	1258.8	1245.8
25°	1669.7	1640.6	1608.2	1630.9	1608.2	1449.7	1297.6	1184.3	1122.9	1100.2	1106.7
27.5°	1728.0	1682.7	1634.1	1698.8	1575.9	1336.4	1152.0	1025.8	967.5	951.4	951.4
30°	1808.9	1740.9	1669.7	1770.0	1514.4	1207.0	980.5	889.9	857.5	844.6	841.3
32.5°	1964.2	1860.6	1757.1	1834.8	1446.4	1038.7	864.0	809.0	770.1	757.2	766.9
35°	2103.3	1957.7	1889.8	1863.9	1339.7	902.8	792.8	744.3	711.9	695.7	695.7
37.5°	2229.5	2090.4	2038.6	1863.9	1200.5	818.7	747.5	708.7	666.6	653.7	653.7
40°	2504.6	2320.1	2229.5	1838.0	1029.0	776.6	724.8	679.5	643.9	631.0	627.8
42.5°	2883.2	2634.0	2426.9	1779.7	883.4	757.2	711.9	660.1	631.0	621.3	618.1
45°	3284.4	3064.4	2614.6	1676.2	789.6	737.8	708.7	653.7	618.1	608.3	605.1
47.5°	3769.8	3543.3	2831.4	1517.6	724.8	724.8	705.4	643.9	611.6	601.9	601.9
50°	4307.0	4119.3	3106.5	1336.4	676.3	715.1	699.0	643.9	608.3	598.6	595.4
52.5°	4857.1	4769.7	3394.5	1158.5	627.8	702.2	695.7	643.9	601.9	592.2	592.2
55°	5556.0	5484.8	3727.8	1025.8	588.9	676.3	695.7	637.5	592.2	585.7	585.7
57.5°	6242.0	6216.2	3986.6	909.3	559.8	643.9	686.0	627.8	582.5	579.2	579.2
60°	6827.7	6801.9	4096.6	763.7	530.7	611.6	666.6	611.6	566.3	569.5	569.5
62.5°	7190.2	7041.3	4015.7	631.0	501.6	582.5	643.9	592.2	550.1	559.8	556.6
65°	7254.9	6908.6	3701.9	527.5	469.2	550.1	618.1	569.5	527.5	550.1	546.9
67.5°	6779.2	6203.2	3112.9	459.5	436.8	514.5	588.9	537.2	501.6	533.9	524.2
70°	5750.2	5038.3	2304.0	407.7	404.5	472.4	550.1	498.3	466.0	482.1	469.2
72.5°	4281.1	3637.1	1491.7	368.9	368.9	423.9	495.1	449.8	417.4	420.7	407.7
75°	2669.6	2236.0	847.8	333.3	333.3	375.4	440.1	394.8	372.1	359.2	375.4
77.5°	1213.5	983.7	446.6	297.7	300.9	320.4	378.6	336.5	310.6	291.2	300.9
80°	449.8	401.3	291.2	255.6	262.1	265.3	304.2	268.6	245.9	233.0	226.5
82.5°	233.0	216.8	197.4	203.9	213.6	203.9	236.2	200.6	174.7	165.0	139.1
85°	116.5	113.3	119.7	135.9	148.9	126.2	142.4	129.4	106.8	77.7	77.7
87.5°	45.3	48.5	45.3	61.5	68.0	58.2	64.7	45.3	32.4	16.2	12.9
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)