

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: P573603

Luminaire Tested: **ARCH-S-PA2-90-830-U-T3**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P573603
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-PA2-90-830-U-T3
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 80 CRI, 3000K, 910mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10202 lumens
Efficiency: N/A
Efficacy: 110.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

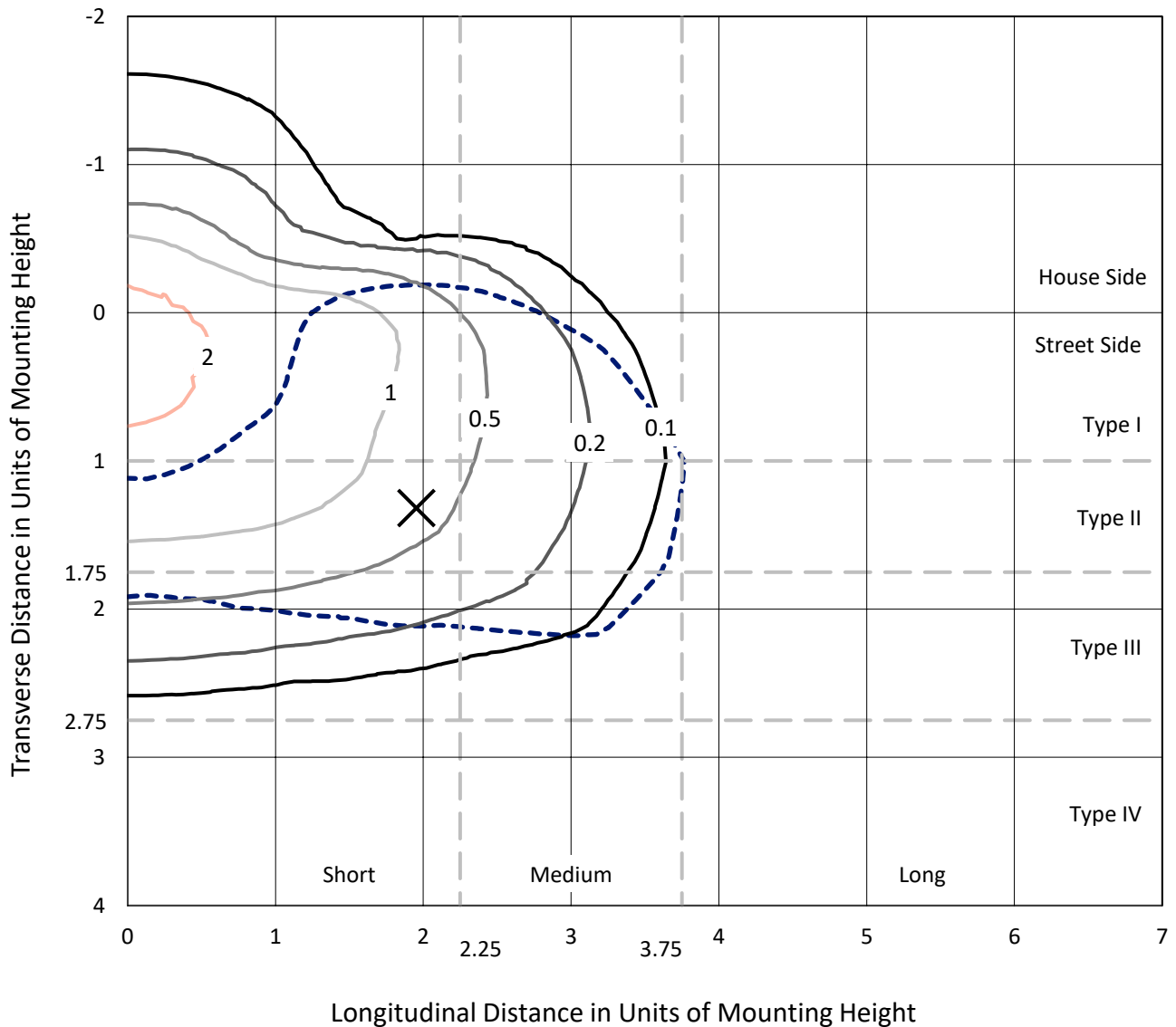
Input Watts (W): 92.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P573603
 CATALOG NUMBER: ARCH-S-PA2-90-830-U-T3

Iso-Footcandle Lines of Horizontal Illumination

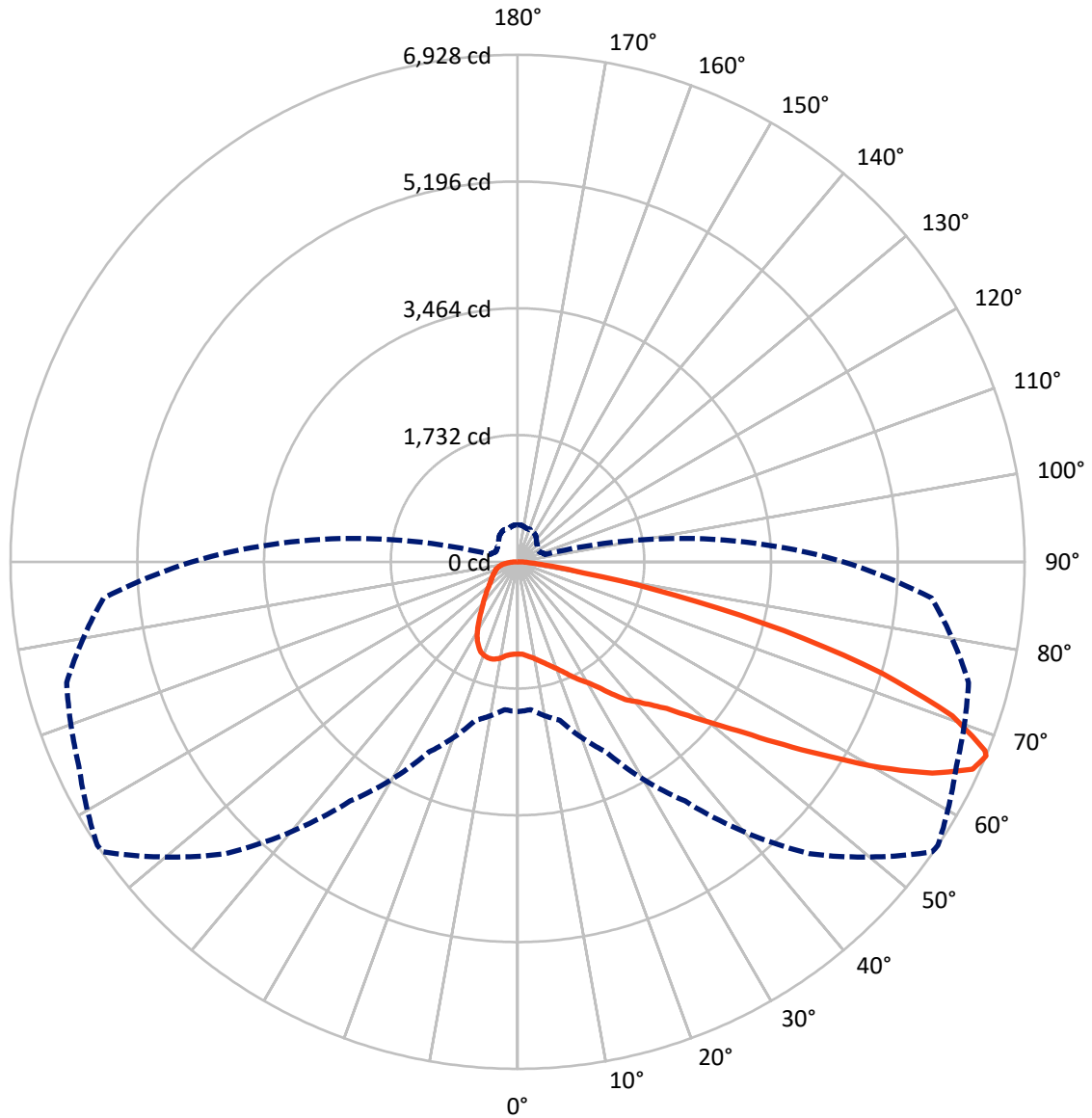
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 fc
 Type III - Short - N/A

REPORT NUMBER: P573603
CATALOG NUMBER: ARCH-S-PA2-90-830-U-T3

Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

REPORT NUMBER: P573603
 CATALOG NUMBER: ARCH-S-PA2-90-830-U-T3

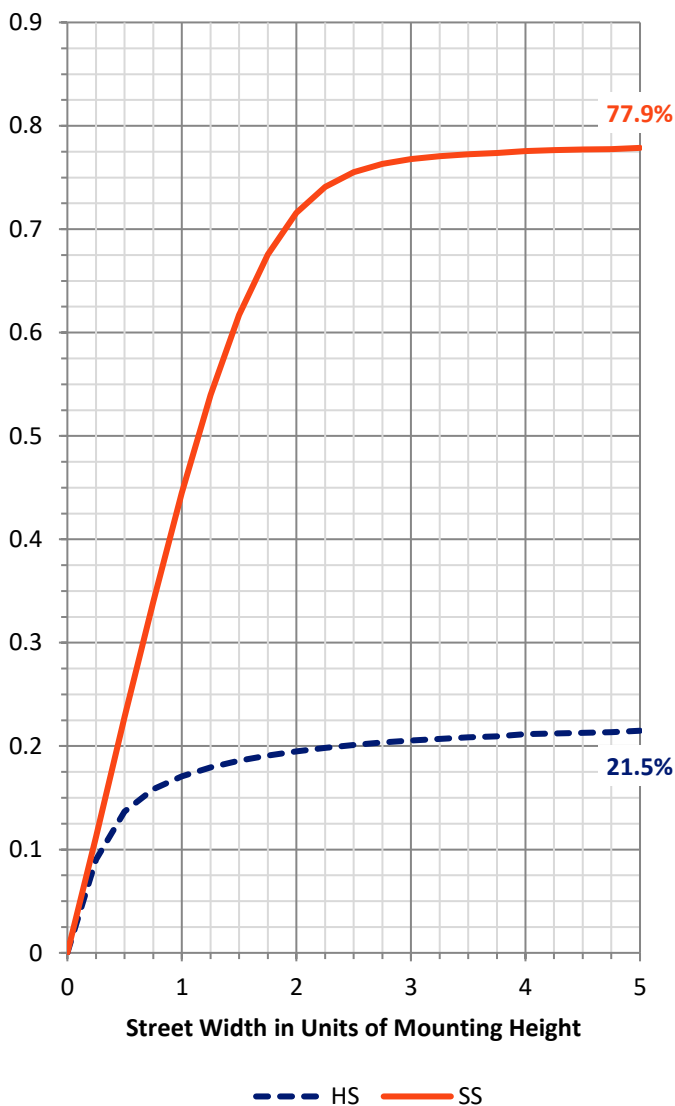
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2232.0	0.0	2232.0
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	7970.0	0.0	7970.0
	% Fixture	78.1	0.0	78.1
Total	Lumens	10202.0	0.0	10202.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.9	1.2
10°-20°	397.4	3.9
20°-30°	691.6	6.8
30°-40°	1014.1	9.9
40°-50°	1483.8	14.5
50°-60°	2318.9	22.7
60°-70°	2756.1	27.0
70°-80°	1255.2	12.3
80°-90°	161.0	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°	10202.0	100.0
0°-180°	10202.0	100.0

Coefficient of Utilization



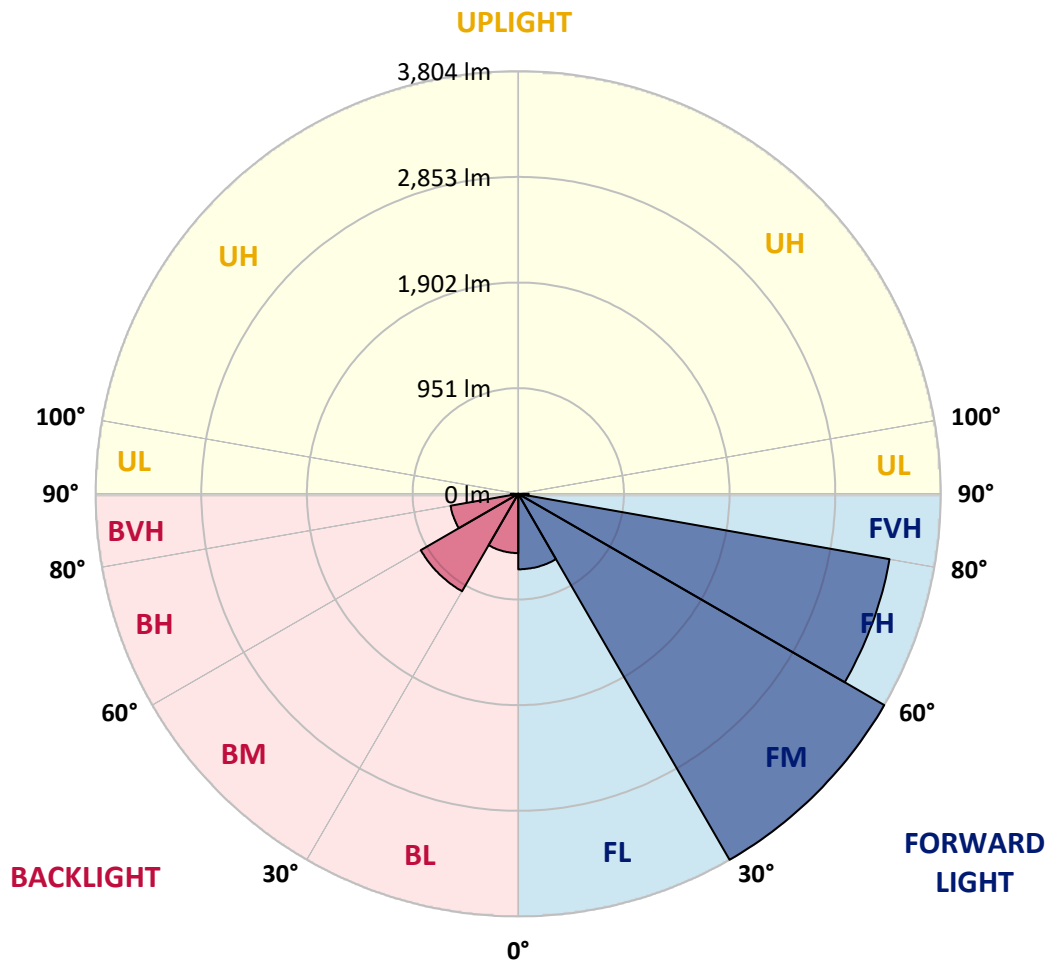
REPORT NUMBER: P573603
 CATALOG NUMBER: ARCH-S-PA2-90-830-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	679.5	6.7			
FM (30°-60°)	3803.6	37.3			
FH (60°-80°)	3393.0	33.3			G2/5000
FVH (80°-90°)	93.9	0.9			G1/100
BL (0°-30°)	533.4	5.2	B2/1000		
BM (30°-60°)	1013.2	9.9	B2/2500		
BH (60°-80°)	618.3	6.1	B2/1000		G2/1000
BVH (80°-90°)	67.1	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





REPORT NUMBER: P573603

CATALOG NUMBER: ARCH-S-PA2-90-830-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	1259.5	1259.5	1259.5	1259.5	1259.5	1259.5	1259.5	1259.5	1259.5	1259.5	1259.5
2.5°	1278.9	1273.4	1270.6	1273.4	1270.6	1265.1	1267.8	1265.1	1262.3	1259.5	1259.5
5°	1295.5	1289.9	1287.2	1289.9	1292.7	1287.2	1287.2	1287.2	1278.9	1276.1	1270.6
7.5°	1306.5	1298.2	1298.2	1303.7	1309.3	1312.0	1317.6	1314.8	1306.5	1301.0	1289.9
10°	1342.4	1331.4	1331.4	1331.4	1336.9	1342.4	1347.9	1350.7	1347.9	1345.2	1336.9
12.5°	1397.7	1386.6	1386.6	1386.6	1386.6	1383.8	1392.1	1394.9	1400.4	1400.4	1386.6
15°	1472.2	1458.4	1452.9	1441.9	1439.1	1433.6	1444.6	1444.6	1452.9	1455.7	1441.9
17.5°	1544.1	1527.5	1522.0	1510.9	1499.9	1486.0	1497.1	1499.9	1516.4	1519.2	1497.1
20°	1618.6	1613.1	1604.8	1588.2	1568.9	1555.1	1566.1	1563.4	1577.2	1582.7	1555.1
22.5°	1715.3	1701.5	1696.0	1673.9	1651.8	1638.0	1638.0	1643.5	1657.3	1657.3	1615.9
25°	1831.3	1812.0	1798.2	1773.3	1745.7	1729.1	1731.9	1737.4	1756.7	1742.9	1679.4
27.5°	1974.9	1955.6	1936.3	1886.6	1858.9	1825.8	1823.0	1828.6	1858.9	1823.0	1740.2
30°	2110.3	2102.0	2085.4	2046.8	2002.6	1947.3	1922.5	1925.2	1947.3	1897.6	1792.6
32.5°	2226.3	2215.3	2207.0	2179.3	2149.0	2082.7	2049.5	2052.3	2049.5	1988.8	1856.2
35°	2364.4	2347.8	2342.3	2317.5	2278.8	2234.6	2220.8	2215.3	2198.7	2115.8	1939.0
37.5°	2497.0	2480.4	2472.1	2458.3	2427.9	2389.3	2389.3	2386.5	2353.4	2237.4	2021.9
40°	2654.4	2635.1	2610.2	2602.0	2577.1	2549.5	2527.4	2513.6	2455.6	2350.6	2182.1
42.5°	2845.0	2834.0	2820.2	2784.3	2745.6	2740.1	2676.5	2671.0	2629.6	2568.8	2408.6
45°	3118.5	3096.4	3077.1	3066.0	3019.0	2969.3	2880.9	2858.8	2858.8	2845.0	2673.8
47.5°	3394.7	3356.0	3383.7	3375.4	3364.3	3309.1	3137.8	3140.6	3135.1	3171.0	3063.2
50°	3579.8	3557.7	3635.0	3670.9	3748.3	3748.3	3502.4	3472.0	3494.1	3599.1	3461.0
52.5°	3723.4	3709.6	3798.0	3938.8	4168.1	4190.2	3936.1	3872.6	3902.9	4052.1	3996.9
55°	3839.4	3825.6	3927.8	4173.6	4541.0	4676.3	4436.0	4408.4	4347.6	4507.9	4524.4
57.5°	3908.5	3878.1	4032.8	4361.5	4844.8	5157.0	5021.6	5013.3	4872.5	5021.6	5096.2
60°	3803.5	3784.2	3996.9	4438.8	5090.7	5610.0	5709.4	5709.4	5458.0	5538.1	5629.3
62.5°	3463.8	3438.9	3662.6	4259.3	5121.1	5980.1	6391.6	6358.5	6021.5	6018.8	5938.7
65°	2817.4	2787.0	3038.4	3668.2	4737.1	6024.3	6852.9	6833.6	6444.1	6333.6	5958.0
67°	2046.8	2027.4	2242.9	2867.1	3991.3	5640.3	6910.9	6927.5	6612.6	6377.8	5679.0
67.5°	1836.8	1834.1	2013.6	2632.3	3773.1	5499.5	6872.3	6888.8	6609.9	6341.9	5568.5
70°	856.3	894.9	1063.4	1508.1	2544.0	4331.1	6237.0	6300.5	6256.3	5927.6	4690.2
72.5°	397.8	414.3	488.9	729.2	1367.3	2792.5	5054.8	5206.7	5400.0	5085.1	3715.1
75°	245.8	251.4	292.8	378.4	643.6	1342.4	3599.1	3764.8	4057.6	3825.6	2375.5
77.5°	193.4	196.1	223.7	270.7	375.7	577.3	1974.9	2182.1	2563.3	2262.2	1196.0
80°	143.6	149.2	171.3	209.9	265.2	295.6	839.7	917.0	1237.4	947.4	497.2
82.5°	105.0	110.5	132.6	151.9	185.1	187.8	342.5	361.8	530.3	383.9	215.4
85°	88.4	88.4	102.2	113.2	124.3	105.0	168.5	165.7	204.4	174.0	85.6
87.5°	41.4	44.2	96.7	71.8	60.8	44.2	49.7	52.5	63.5	69.1	33.1
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: P573603
 CATALOG NUMBER: ARCH-S-PA2-90-830-U-T3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1259.5	1259.5	1259.5	1259.5	1259.5	1259.5	1259.5	1259.5	1259.5	1259.5	1259.5
2.5°	1256.8	1256.8	1256.8	1259.5	1262.3	1262.3	1265.1	1265.1	1267.8	1270.6	1276.1
5°	1267.8	1267.8	1265.1	1267.8	1273.4	1276.1	1281.6	1287.2	1292.7	1298.2	1301.0
7.5°	1289.9	1287.2	1287.2	1287.2	1292.7	1298.2	1306.5	1312.0	1320.3	1323.1	1328.6
10°	1331.4	1325.8	1325.8	1328.6	1331.4	1323.1	1320.3	1317.6	1325.8	1331.4	1336.9
12.5°	1381.1	1375.6	1372.8	1364.5	1353.5	1336.9	1323.1	1312.0	1314.8	1320.3	1328.6
15°	1433.6	1422.5	1417.0	1397.7	1370.0	1334.1	1312.0	1298.2	1298.2	1298.2	1306.5
17.5°	1488.8	1477.8	1455.7	1419.8	1367.3	1317.6	1289.9	1265.1	1254.0	1251.3	1256.8
20°	1541.3	1524.7	1488.8	1433.6	1350.7	1284.4	1248.5	1207.1	1190.5	1179.4	1185.0
22.5°	1591.0	1568.9	1519.2	1433.6	1323.1	1234.7	1171.2	1115.9	1088.3	1082.8	1085.5
25°	1643.5	1615.9	1549.6	1417.0	1262.3	1160.1	1071.7	1013.7	977.8	972.3	980.6
27.5°	1696.0	1654.5	1574.4	1372.8	1193.3	1057.9	964.0	908.8	889.4	878.4	881.1
30°	1740.2	1701.5	1599.3	1312.0	1099.3	939.1	853.5	828.6	814.8	809.3	809.3
32.5°	1798.2	1762.3	1615.9	1240.2	988.9	831.4	776.2	756.8	745.8	732.0	734.7
35°	1870.0	1836.8	1607.6	1149.1	883.9	759.6	715.4	687.8	662.9	643.6	640.8
37.5°	1966.7	1941.8	1566.1	1038.6	787.2	707.1	662.9	627.0	591.1	560.7	555.2
40°	2126.9	2068.9	1505.4	917.0	720.9	665.7	613.2	569.0	524.8	491.7	483.4
42.5°	2331.3	2209.7	1422.5	792.7	665.7	621.5	569.0	511.0	469.6	439.2	439.2
45°	2568.8	2361.7	1323.1	698.8	607.7	577.3	513.8	464.0	439.2	419.8	417.1
47.5°	2850.6	2513.6	1196.0	624.2	560.7	538.6	475.1	444.7	428.1	411.6	408.8
50°	3229.0	2718.0	1102.1	560.7	513.8	494.4	464.0	439.2	422.6	411.6	408.8
52.5°	3662.6	2980.4	1035.8	511.0	475.1	466.8	461.3	441.9	425.4	417.1	414.3
55°	4132.2	3303.5	972.3	469.6	444.7	455.8	466.8	447.5	436.4	425.4	419.8
57.5°	4574.1	3577.0	870.1	433.7	422.6	441.9	464.0	450.2	436.4	428.1	425.4
60°	4875.2	3715.1	729.2	400.5	400.5	422.6	455.8	436.4	422.6	425.4	425.4
62.5°	4971.9	3662.6	577.3	370.1	378.4	400.5	430.9	419.8	414.3	428.1	428.1
65°	4828.3	3449.9	461.3	345.3	356.3	372.9	417.1	428.1	444.7	475.1	477.9
67°	4452.6	3107.4	389.5	325.9	337.0	364.6	433.7	472.3	472.3	505.5	505.5
67.5°	4342.1	2991.4	378.4	320.4	334.2	364.6	441.9	483.4	472.3	511.0	511.0
70°	3530.0	2353.4	320.4	303.8	323.2	383.9	477.9	486.1	461.3	497.2	494.4
72.5°	2618.5	1701.5	292.8	287.3	301.1	361.8	475.1	466.8	430.9	441.9	433.7
75°	1618.6	986.1	270.7	265.2	273.5	320.4	439.2	425.4	383.9	375.7	367.4
77.5°	781.7	500.0	232.0	240.3	248.6	279.0	386.7	372.9	337.0	317.6	314.9
80°	339.7	256.9	198.9	212.7	215.4	237.5	320.4	303.8	270.7	240.3	240.3
82.5°	168.5	143.6	157.4	176.8	171.3	190.6	251.4	223.7	198.9	165.7	160.2
85°	77.3	82.9	116.0	132.6	116.0	118.8	171.3	157.4	124.3	93.9	96.7
87.5°	27.6	38.7	66.3	80.1	58.0	55.2	91.2	66.3	38.7	11.0	13.8
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)