

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: P572944

Luminaire Tested: **ARCH-S-PA2-130-827-U-T2U**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P572944
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-PA2-130-827-U-T2U
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 80 CRI, 2700K, 1295mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11772 lumens
Efficiency: N/A
Efficacy: 89.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

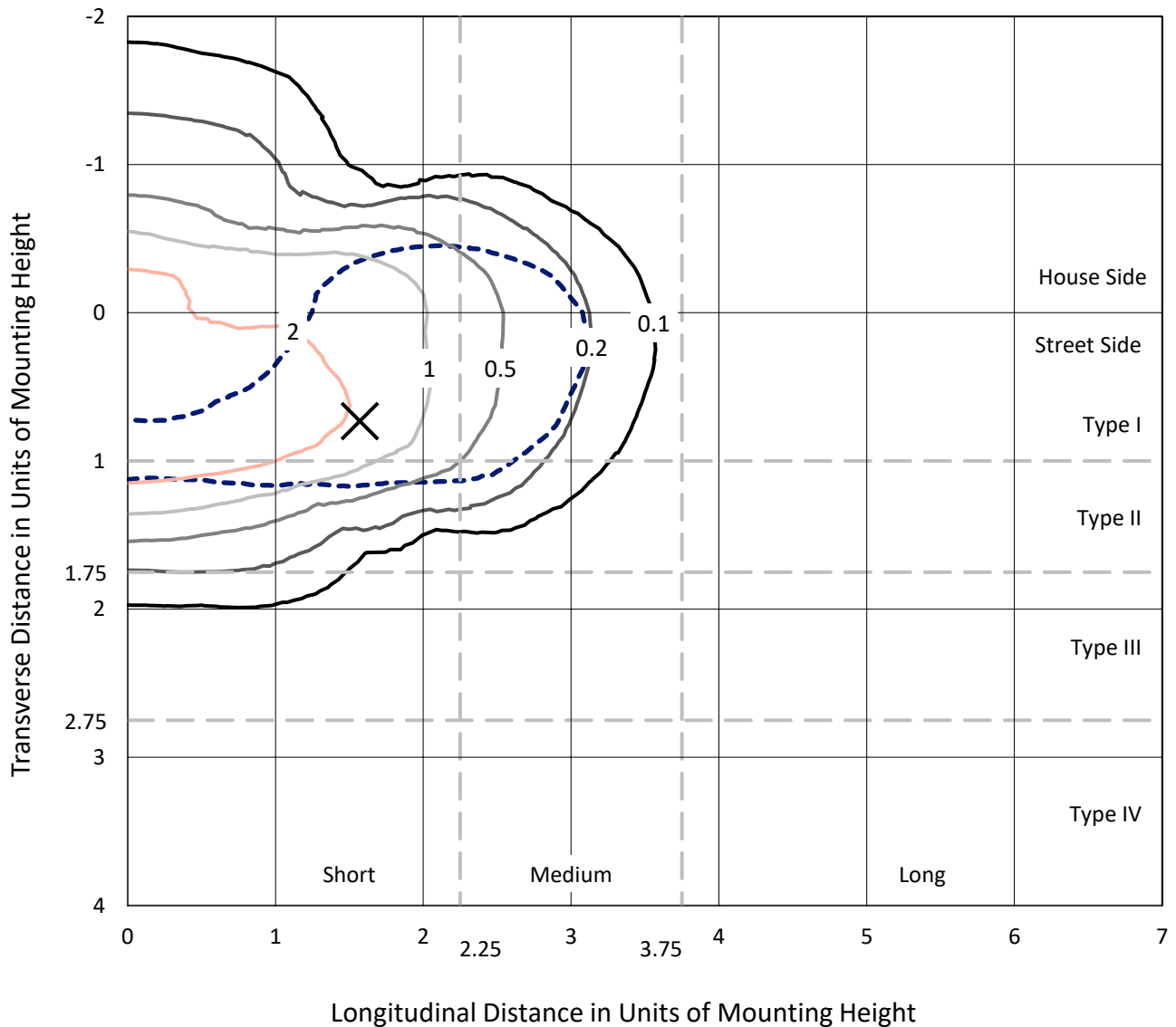
Input Watts (W): 131.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

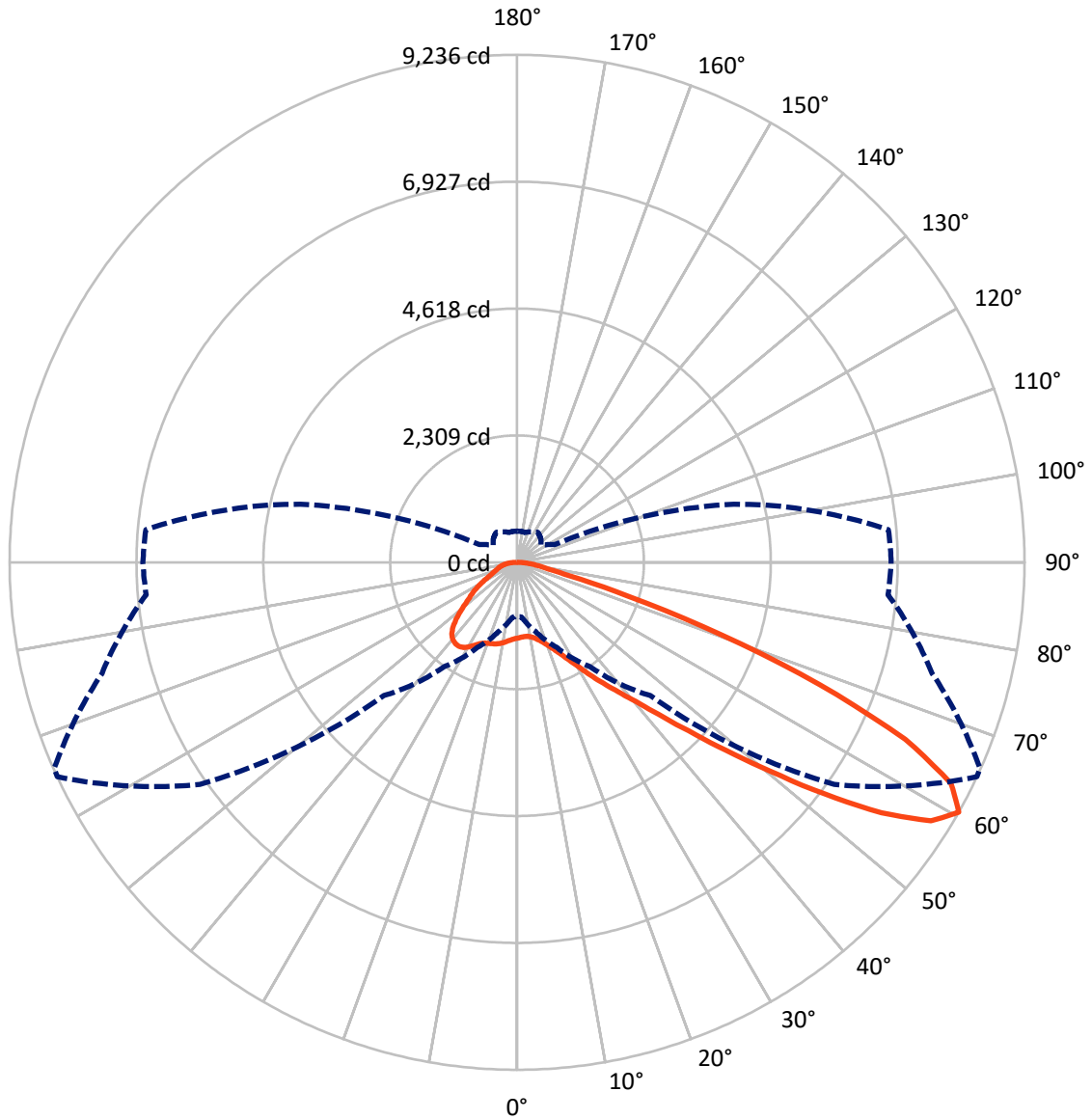
✕ Max cd
 - - - 1/2 Max cd



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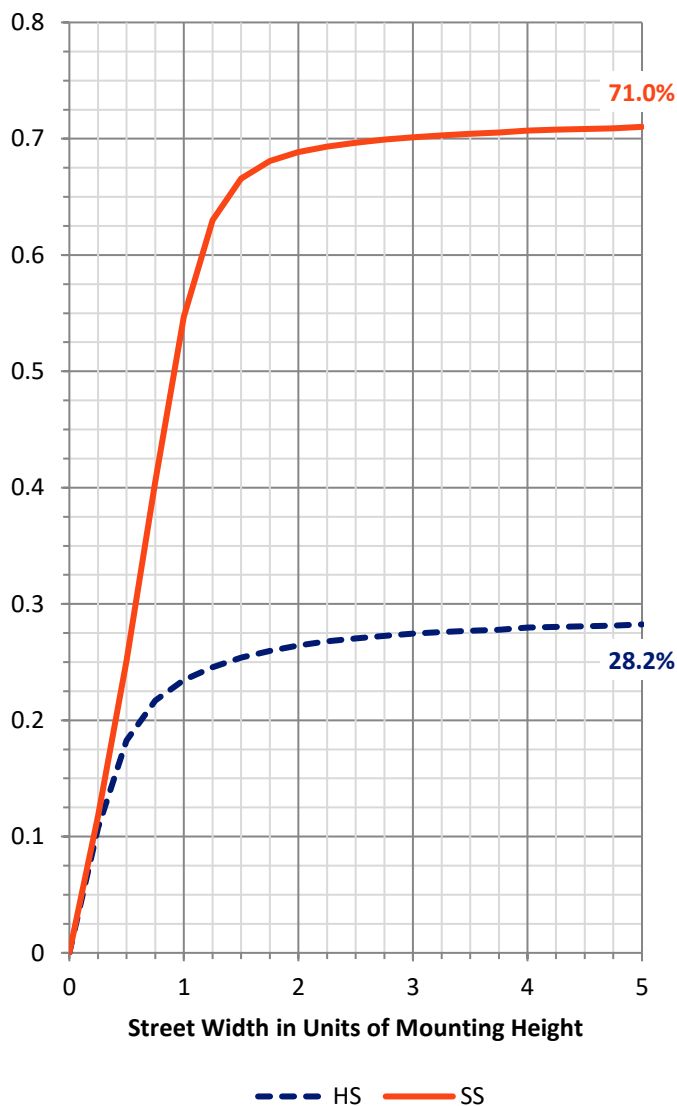
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3370.0	0.0	3370.0
	% Fixture	28.6	0.0	28.6
Street Side	Lumens	8402.0	0.0	8402.0
	% Fixture	71.4	0.0	71.4
Total	Lumens	11772.0	0.0	11772.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.5	1.1
10°-20°	429.5	3.6
20°-30°	823.3	7.0
30°-40°	1429.9	12.1
40°-50°	2425.1	20.6
50°-60°	3019.7	25.7
60°-70°	2433.4	20.7
70°-80°	921.4	7.8
80°-90°	156.3	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°	11772.0	100.0
0°-180°	11772.0	100.0

Coefficient of Utilization

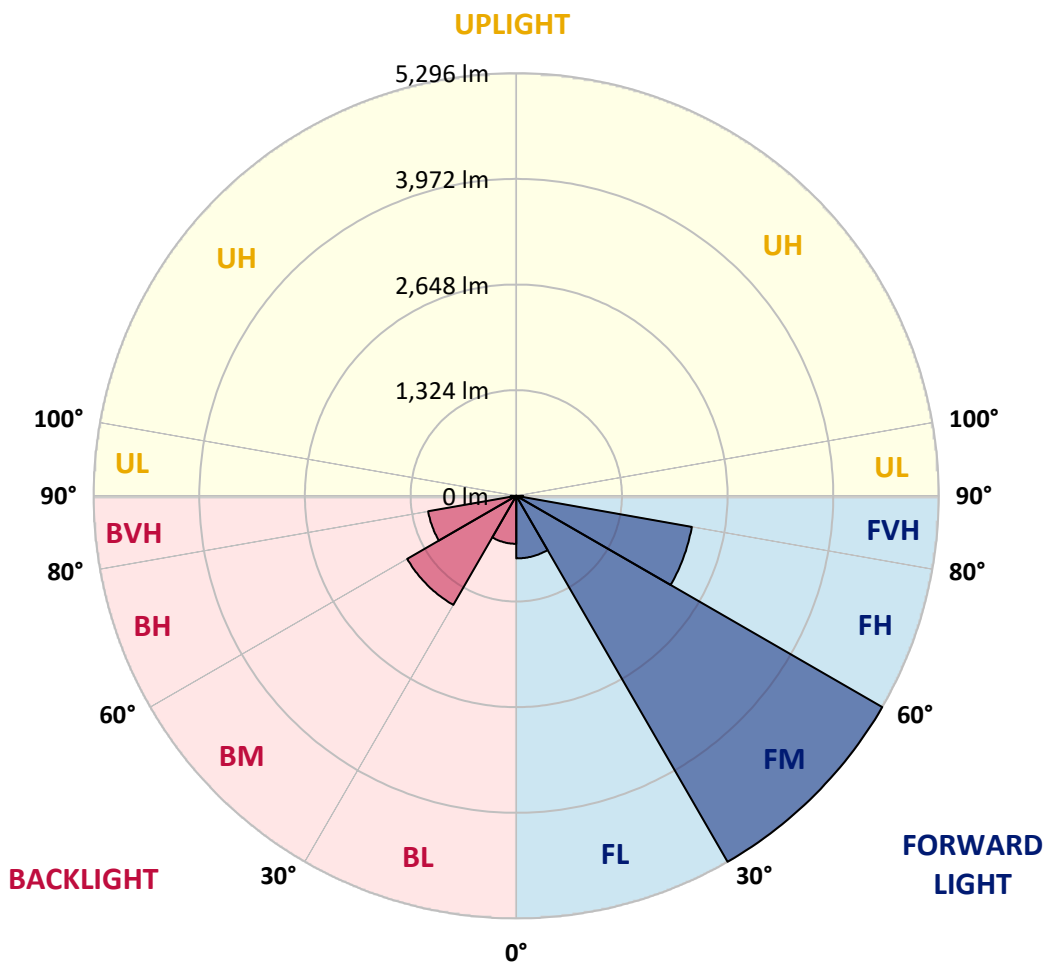


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	784.8	6.7			
FM (30°-60°)	5296.2	45.0			
FH (60°-80°)	2234.3	19.0			G2/5000
FVH (80°-90°)	86.7	0.7			G1/100
BL (0°-30°)	601.4	5.1	B2/1000		
BM (30°-60°)	1578.4	13.4	B2/2500		
BH (60°-80°)	1120.5	9.5	B3/2500		G3/2500
BVH (80°-90°)	69.6	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°	1381.2	1381.2	1381.2	1381.2	1381.2	1381.2	1381.2	1381.2	1381.2	1381.2	1381.2
2.5°	1348.9	1348.9	1348.9	1352.2	1355.4	1358.6	1365.1	1365.1	1365.1	1368.3	1374.8
5°	1323.1	1319.9	1323.1	1326.3	1332.8	1339.3	1352.2	1358.6	1358.6	1371.5	1384.4
7.5°	1326.3	1319.9	1319.9	1323.1	1329.6	1336.0	1348.9	1358.6	1361.8	1378.0	1400.6
10°	1358.6	1348.9	1348.9	1352.2	1352.2	1358.6	1368.3	1381.2	1384.4	1400.6	1423.2
12.5°	1426.4	1416.7	1413.5	1403.8	1394.1	1400.6	1410.3	1413.5	1416.7	1426.4	1449.0
15°	1568.4	1552.2	1526.4	1507.1	1481.3	1465.1	1461.9	1465.1	1465.1	1468.3	1481.3
17.5°	1771.7	1752.3	1713.6	1671.7	1610.3	1558.7	1542.6	1529.7	1529.7	1520.0	1520.0
20°	2020.2	1991.1	1946.0	1884.6	1794.3	1700.7	1645.8	1616.8	1607.1	1591.0	1568.4
22.5°	2307.4	2288.0	2229.9	2136.4	2000.8	1875.0	1784.6	1720.1	1720.1	1681.3	1632.9
25°	2646.2	2610.7	2543.0	2433.3	2249.3	2068.6	1946.0	1852.4	1842.7	1781.4	1703.9
27.5°	2975.4	2952.8	2868.9	2723.7	2504.2	2294.5	2123.4	2013.7	1997.6	1900.8	1781.4
30°	3375.6	3349.8	3223.9	3020.6	2785.0	2546.2	2346.1	2204.1	2188.0	2055.7	1887.9
32.5°	3872.6	3785.4	3630.5	3398.2	3094.8	2827.0	2597.8	2446.2	2426.8	2275.1	2075.0
35°	4476.0	4401.8	4133.9	3888.7	3527.2	3175.5	2901.2	2701.1	2675.3	2494.6	2242.9
37.5°	4902.0	4866.5	4682.6	4488.9	4075.9	3601.5	3265.9	2988.3	2962.5	2723.7	2397.8
40°	5169.9	5134.4	5082.7	5027.9	4798.7	4263.0	3704.7	3327.2	3285.2	3059.3	2707.6
42.5°	5308.6	5279.6	5289.3	5399.0	5463.5	5379.6	4330.8	3779.0	3749.9	3475.6	3085.1
45°	5227.9	5208.6	5302.2	5592.6	5908.9	6528.5	5134.4	4372.8	4295.3	3969.4	3543.4
47.5°	4840.7	4782.6	5002.0	5495.8	6173.5	7077.1	6102.5	5105.3	5021.4	4553.5	4008.1
50°	4043.6	4027.5	4327.6	4953.6	6070.2	7293.3	7138.4	5970.2	5908.9	5182.8	4524.4
52.5°	3301.3	3294.9	3527.2	4101.7	5411.9	7141.6	7890.3	6999.6	6815.7	5815.3	5085.9
55°	2562.3	2559.1	2765.6	3194.9	4317.9	6428.4	8245.3	8048.5	7912.9	6505.9	5663.6
57.5°	1752.3	1729.7	1997.6	2323.5	3243.3	5092.4	8013.0	8877.8	8793.9	7238.4	6276.8
60°	974.6	1006.9	1303.8	1707.1	2320.3	3430.4	7044.8	9236.0	9223.1	7822.6	6777.0
62.5°	690.6	703.5	829.4	1213.4	1526.4	1965.3	5434.5	8864.9	8968.2	8145.3	7061.0
65°	574.4	580.9	642.2	897.1	1116.6	1135.9	3388.5	7764.5	7900.0	8045.2	7122.3
67.5°	542.2	545.4	577.7	661.6	874.6	822.9	1513.5	5928.2	6215.4	7238.4	6722.1
70°	493.8	497.0	545.4	584.1	706.7	648.7	777.7	3937.1	4324.3	5721.7	5795.9
72.5°	422.8	432.4	471.2	548.6	574.4	538.9	600.2	2104.1	2488.1	3827.4	4476.0
75°	364.7	371.1	400.2	464.7	538.9	429.2	509.9	958.5	1123.0	2246.1	2833.4
77.5°	293.7	296.9	338.8	380.8	451.8	348.5	396.9	574.4	603.5	1097.2	1281.2
80°	222.7	222.7	251.7	303.3	335.6	335.6	290.4	400.2	416.3	522.8	506.7
82.5°	171.0	167.8	190.4	213.0	242.0	280.8	219.4	264.6	271.1	316.3	271.1
85°	112.9	112.9	125.9	145.2	161.4	154.9	171.0	154.9	161.4	196.9	148.4
87.5°	48.4	48.4	67.8	64.5	71.0	74.2	83.9	74.2	74.2	90.4	67.8
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°	1381.2	1381.2	1381.2	1381.2	1381.2	1381.2	1381.2	1381.2	1381.2	1381.2	1381.2
2.5°	1378.0	1381.2	1387.7	1390.9	1400.6	1403.8	1403.8	1410.3	1410.3	1416.7	1416.7
5°	1387.7	1397.3	1407.0	1416.7	1426.4	1429.6	1436.1	1439.3	1439.3	1445.8	1442.5
7.5°	1407.0	1416.7	1436.1	1445.8	1458.7	1465.1	1461.9	1465.1	1461.9	1465.1	1465.1
10°	1432.8	1445.8	1468.3	1481.3	1490.9	1494.2	1484.5	1474.8	1461.9	1461.9	1461.9
12.5°	1461.9	1471.6	1500.6	1510.3	1516.7	1507.1	1481.3	1461.9	1452.2	1455.4	1452.2
15°	1490.9	1500.6	1523.2	1532.9	1532.9	1503.8	1481.3	1474.8	1471.6	1474.8	1474.8
17.5°	1520.0	1529.7	1549.0	1549.0	1539.3	1516.7	1494.2	1471.6	1455.4	1445.8	1445.8
20°	1558.7	1558.7	1565.2	1565.2	1561.9	1526.4	1471.6	1416.7	1384.4	1365.1	1361.8
22.5°	1610.3	1597.4	1584.5	1584.5	1597.4	1503.8	1397.3	1313.4	1261.8	1255.4	1242.4
25°	1665.2	1636.2	1603.9	1626.5	1603.9	1445.8	1294.1	1181.1	1119.8	1097.2	1103.7
27.5°	1723.3	1678.1	1629.7	1694.2	1571.6	1332.8	1148.9	1023.0	964.9	948.8	948.8
30°	1804.0	1736.2	1665.2	1765.2	1510.3	1203.7	977.8	887.5	855.2	842.3	839.1
32.5°	1958.9	1855.6	1752.3	1829.8	1442.5	1035.9	861.6	806.8	768.1	755.1	764.8
35°	2097.6	1952.4	1884.6	1858.8	1336.0	900.4	790.6	742.2	710.0	693.8	693.8
37.5°	2223.5	2084.7	2033.1	1858.8	1197.3	816.5	745.5	706.7	664.8	651.9	651.9
40°	2497.8	2313.8	2223.5	1833.0	1026.2	774.5	722.9	677.7	642.2	629.3	626.1
42.5°	2875.4	2626.9	2420.3	1774.9	881.0	755.1	710.0	658.3	629.3	619.6	616.4
45°	3275.5	3056.1	2607.5	1671.7	787.4	735.8	706.7	651.9	616.4	606.7	603.5
47.5°	3759.6	3533.7	2823.7	1513.5	722.9	722.9	703.5	642.2	609.9	600.2	600.2
50°	4295.3	4108.1	3098.0	1332.8	674.5	713.2	697.1	642.2	606.7	597.0	593.8
52.5°	4843.9	4756.8	3385.3	1155.3	626.1	700.3	693.8	642.2	600.2	590.6	590.6
55°	5541.0	5470.0	3717.6	1023.0	587.3	674.5	693.8	635.7	590.6	584.1	584.1
57.5°	6225.1	6199.3	3975.8	906.8	558.3	642.2	684.2	626.1	580.9	577.7	577.7
60°	6809.2	6783.4	4085.5	761.6	529.2	609.9	664.8	609.9	564.7	568.0	568.0
62.5°	7170.7	7022.2	4004.9	629.3	500.2	580.9	642.2	590.6	548.6	558.3	555.1
65°	7235.2	6889.9	3691.8	526.0	467.9	548.6	616.4	568.0	526.0	548.6	545.4
67.5°	6760.8	6186.4	3104.5	458.3	435.7	513.1	587.3	535.7	500.2	532.5	522.8
70°	5734.6	5024.6	2297.7	406.6	403.4	471.2	548.6	497.0	464.7	480.8	467.9
72.5°	4269.5	3627.3	1487.7	367.9	367.9	422.8	493.8	448.6	416.3	419.5	406.6
75°	2662.4	2229.9	845.5	332.4	332.4	374.3	438.9	393.7	371.1	358.2	374.3
77.5°	1210.2	981.0	445.3	296.9	300.1	319.5	377.6	335.6	309.8	290.4	300.1
80°	448.6	400.2	290.4	254.9	261.4	264.6	303.3	267.9	245.3	232.4	225.9
82.5°	232.4	216.2	196.9	203.3	213.0	203.3	235.6	200.1	174.3	164.6	138.8
85°	116.2	112.9	119.4	135.5	148.4	125.9	142.0	129.1	106.5	77.5	77.5
87.5°	45.2	48.4	45.2	61.3	67.8	58.1	64.5	45.2	32.3	16.1	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)