

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: P572647

Luminaire Tested: **ARCH-S-PA2-100-727-U-T2U**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P572647
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-PA2-100-727-U-T2U
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 1010mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11489 lumens
Efficiency: N/A
Efficacy: 111.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

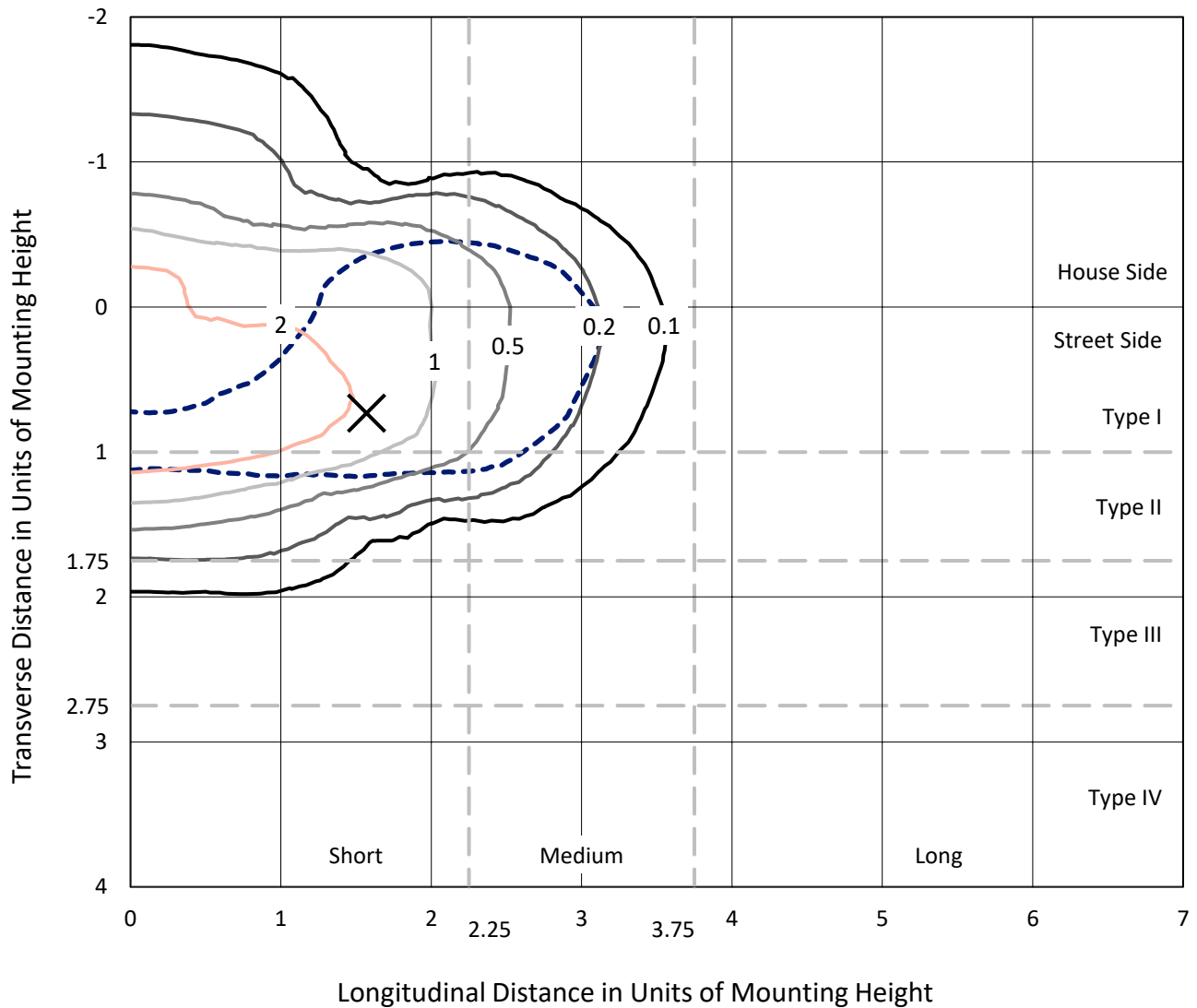
Input Watts (W): 103.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

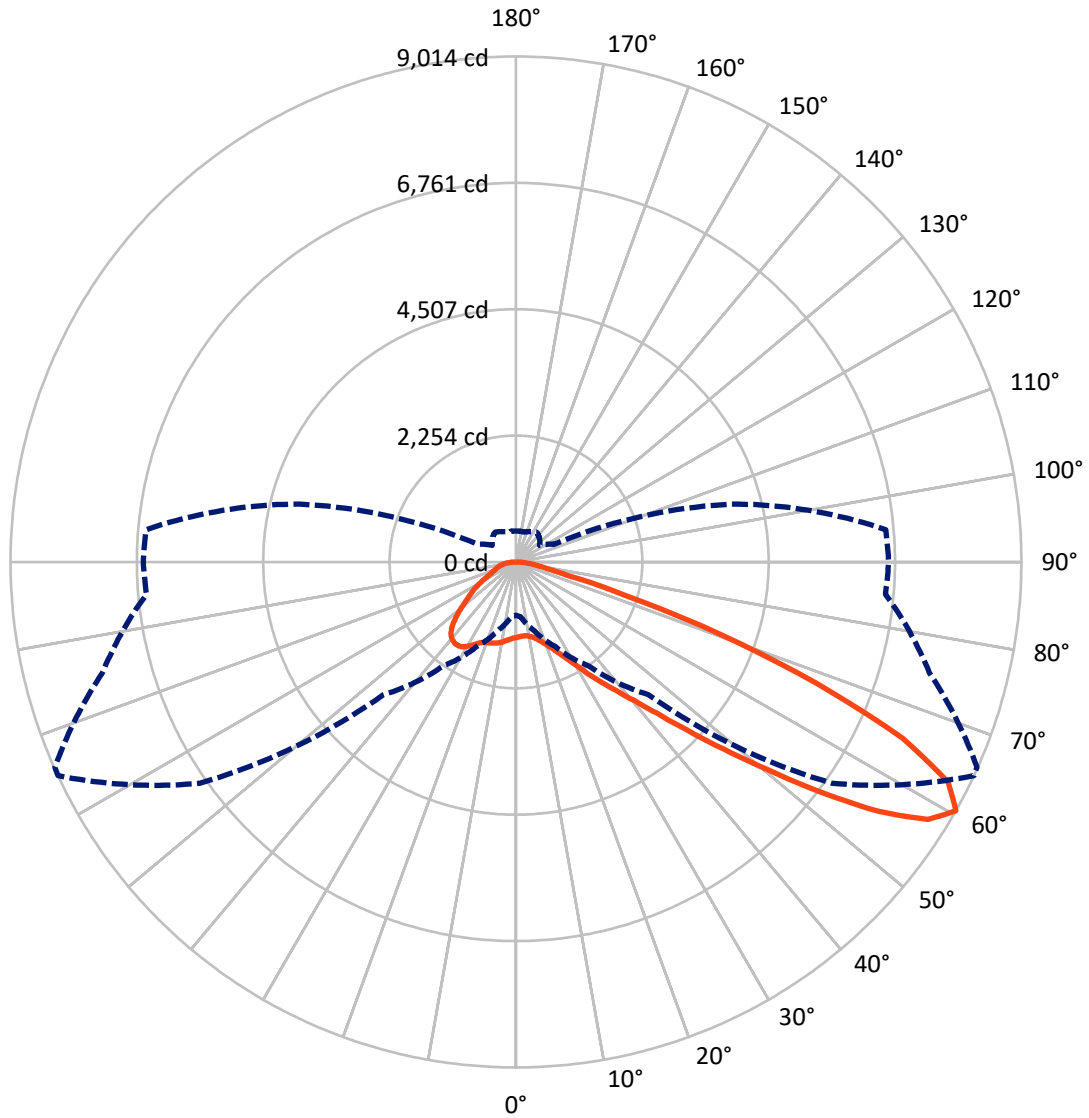
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 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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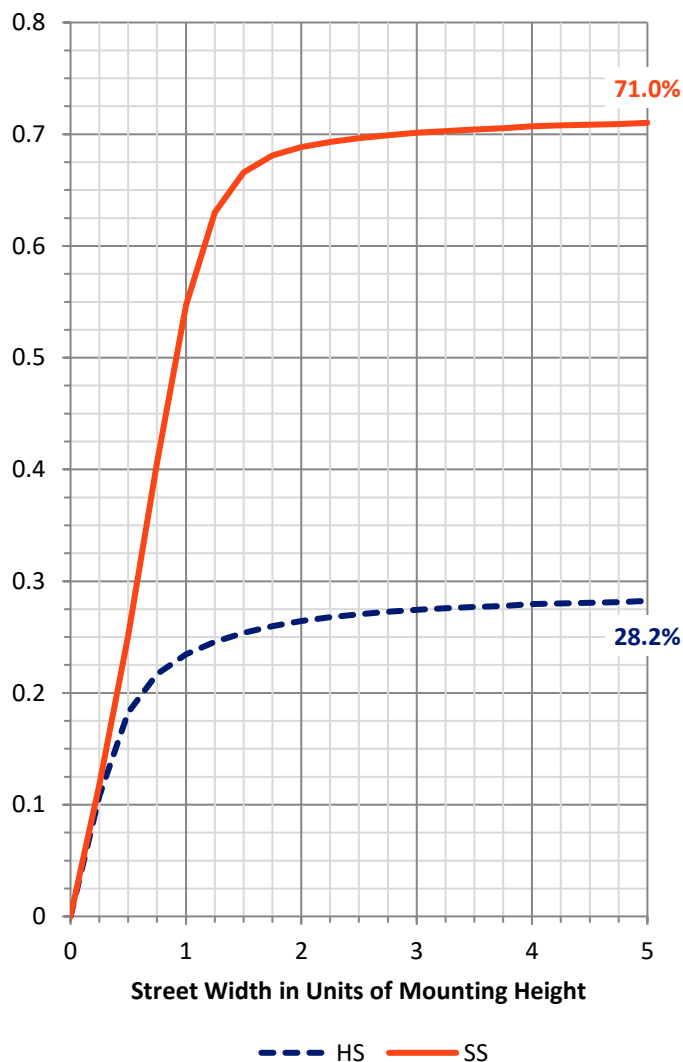
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3289.0	0.0	3289.0
	% Fixture	28.6	0.0	28.6
Street Side	Lumens	8200.0	0.0	8200.0
	% Fixture	71.4	0.0	71.4
Total	Lumens	11489.0	0.0	11489.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.2	1.1
10°-20°	419.2	3.6
20°-30°	803.5	7.0
30°-40°	1395.5	12.1
40°-50°	2366.8	20.6
50°-60°	2947.1	25.7
60°-70°	2374.9	20.7
70°-80°	899.3	7.8
80°-90°	152.5	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°	11489.0	100.0
0°-180°	11489.0	100.0



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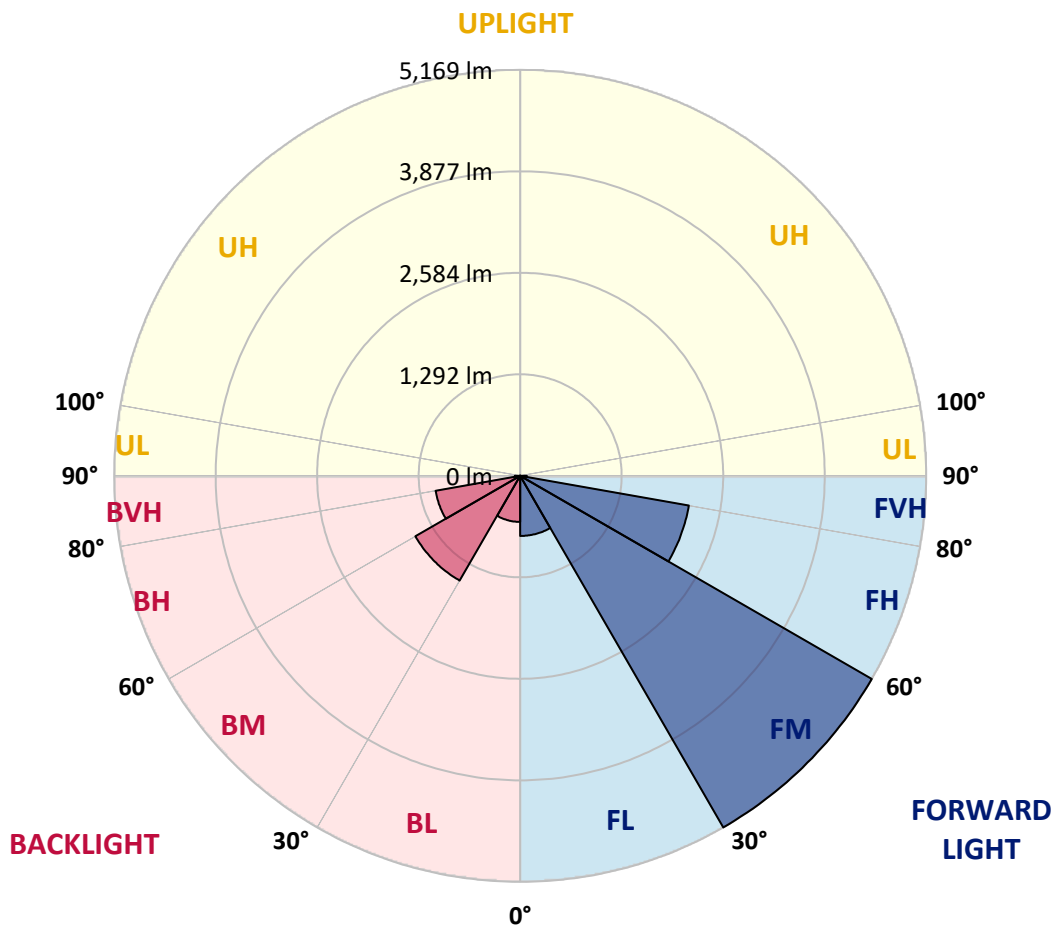
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	765.9	6.7			
FM (30°-60°)	5168.9	45.0			
FH (60°-80°)	2180.6	19.0			G2/5000
FVH (80°-90°)	84.6	0.7			G1/100
BL (0°-30°)	587.0	5.1	B2/1000		
BM (30°-60°)	1540.5	13.4	B2/2500		
BH (60°-80°)	1093.6	9.5	B3/2500		G3/2500
BVH (80°-90°)	67.9	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°	1348.0	1348.0	1348.0	1348.0	1348.0	1348.0	1348.0	1348.0	1348.0	1348.0	1348.0
2.5°	1316.5	1316.5	1316.5	1319.7	1322.8	1326.0	1332.3	1332.3	1332.3	1335.4	1341.7
5°	1291.3	1288.2	1291.3	1294.5	1300.8	1307.1	1319.7	1326.0	1326.0	1338.6	1351.2
7.5°	1294.5	1288.2	1288.2	1291.3	1297.6	1303.9	1316.5	1326.0	1329.1	1344.9	1366.9
10°	1326.0	1316.5	1316.5	1319.7	1319.7	1326.0	1335.4	1348.0	1351.2	1366.9	1388.9
12.5°	1392.1	1382.7	1379.5	1370.1	1360.6	1366.9	1376.4	1379.5	1382.7	1392.1	1414.1
15°	1530.7	1514.9	1489.7	1470.8	1445.6	1429.9	1426.7	1429.9	1429.9	1433.0	1445.6
17.5°	1729.1	1710.2	1672.4	1631.5	1571.6	1521.2	1505.5	1492.9	1492.9	1483.4	1483.4
20°	1971.6	1943.3	1899.2	1839.3	1751.1	1659.8	1606.3	1577.9	1568.5	1552.7	1530.7
22.5°	2251.9	2233.0	2176.3	2085.0	1952.7	1829.9	1741.7	1678.7	1678.7	1640.9	1593.7
25°	2582.6	2548.0	2481.8	2374.8	2195.2	2018.9	1899.2	1807.8	1798.4	1738.5	1663.0
27.5°	2903.9	2881.8	2799.9	2658.2	2444.0	2239.3	2072.4	1965.3	1949.6	1855.1	1738.5
30°	3294.4	3269.2	3146.4	2948.0	2718.1	2485.0	2289.7	2151.1	2135.4	2006.3	1842.5
32.5°	3779.5	3694.4	3543.2	3316.5	3020.4	2759.0	2535.4	2387.4	2368.5	2220.4	2025.2
35°	4368.4	4296.0	4034.6	3795.2	3442.5	3099.2	2831.4	2636.2	2611.0	2434.6	2188.9
37.5°	4784.2	4749.5	4570.0	4381.0	3977.9	3514.9	3187.3	2916.5	2891.3	2658.2	2340.1
40°	5045.6	5010.9	4960.5	4907.0	4683.4	4160.5	3615.7	3247.2	3206.2	2985.8	2642.5
42.5°	5181.0	5152.7	5162.1	5269.2	5332.2	5250.3	4226.7	3688.1	3659.8	3392.1	3011.0
45°	5102.3	5083.4	5174.7	5458.2	5766.8	6371.5	5010.9	4267.6	4192.0	3873.9	3458.2
47.5°	4724.3	4667.6	4881.8	5363.7	6025.1	6907.0	5955.8	4982.6	4900.7	4444.0	3911.7
50°	3946.4	3930.6	4223.5	4834.6	5924.3	7118.0	6966.8	5826.7	5766.8	5058.2	4415.7
52.5°	3222.0	3215.7	3442.5	4003.1	5281.8	6969.9	7700.6	6831.4	6651.8	5675.5	4963.7
55°	2500.7	2497.6	2699.2	3118.0	4214.1	6273.9	8047.1	7855.0	7722.7	6349.5	5527.5
57.5°	1710.2	1688.2	1949.6	2267.7	3165.3	4970.0	7820.3	8664.4	8582.5	7064.4	6125.9
60°	951.2	982.7	1272.4	1666.1	2264.5	3348.0	6875.5	9014.0	9001.4	7634.5	6614.0
62.5°	674.0	686.6	809.4	1184.2	1489.7	1918.1	5303.8	8651.8	8752.6	7949.5	6891.2
65°	560.6	566.9	626.8	875.6	1089.7	1108.6	3307.0	7577.8	7710.1	7851.8	6951.0
67.5°	529.1	532.3	563.8	645.7	853.5	803.1	1477.1	5785.7	6066.0	7064.4	6560.5
70°	481.9	485.0	532.3	570.1	689.8	633.1	759.0	3842.4	4220.4	5584.1	5656.6
72.5°	412.6	422.0	459.8	535.4	560.6	526.0	585.8	2053.5	2428.3	3735.4	4368.4
75°	355.9	362.2	390.5	453.5	526.0	418.9	497.6	935.4	1096.0	2192.1	2765.3
77.5°	286.6	289.8	330.7	371.6	440.9	340.2	387.4	560.6	589.0	1070.8	1250.4
80°	217.3	217.3	245.7	296.1	327.6	327.6	283.5	390.5	406.3	510.2	494.5
82.5°	166.9	163.8	185.8	207.9	236.2	274.0	214.2	258.3	264.6	308.7	264.6
85°	110.2	110.2	122.8	141.7	157.5	151.2	166.9	151.2	157.5	192.1	144.9
87.5°	47.2	47.2	66.1	63.0	69.3	72.4	81.9	72.4	72.4	88.2	66.1
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°	1348.0	1348.0	1348.0	1348.0	1348.0	1348.0	1348.0	1348.0	1348.0	1348.0	1348.0
2.5°	1344.9	1348.0	1354.3	1357.5	1366.9	1370.1	1370.1	1376.4	1376.4	1382.7	1382.7
5°	1354.3	1363.8	1373.2	1382.7	1392.1	1395.2	1401.5	1404.7	1404.7	1411.0	1407.8
7.5°	1373.2	1382.7	1401.5	1411.0	1423.6	1429.9	1426.7	1429.9	1426.7	1429.9	1429.9
10°	1398.4	1411.0	1433.0	1445.6	1455.1	1458.2	1448.8	1439.3	1426.7	1426.7	1426.7
12.5°	1426.7	1436.2	1464.5	1474.0	1480.3	1470.8	1445.6	1426.7	1417.3	1420.4	1417.3
15°	1455.1	1464.5	1486.6	1496.0	1496.0	1467.7	1445.6	1439.3	1436.2	1439.3	1439.3
17.5°	1483.4	1492.9	1511.8	1511.8	1502.3	1480.3	1458.2	1436.2	1420.4	1411.0	1411.0
20°	1521.2	1521.2	1527.5	1527.5	1524.4	1489.7	1436.2	1382.7	1351.2	1332.3	1329.1
22.5°	1571.6	1559.0	1546.4	1546.4	1559.0	1467.7	1363.8	1281.9	1231.5	1225.2	1212.6
25°	1625.2	1596.8	1565.3	1587.4	1565.3	1411.0	1263.0	1152.7	1092.9	1070.8	1077.1
27.5°	1681.9	1637.8	1590.5	1653.5	1533.8	1300.8	1121.2	998.4	941.7	926.0	926.0
30°	1760.6	1694.5	1625.2	1722.8	1474.0	1174.8	954.3	866.1	834.6	822.0	818.9
32.5°	1911.8	1811.0	1710.2	1785.8	1407.8	1011.0	840.9	787.4	749.6	737.0	746.4
35°	2047.2	1905.5	1839.3	1814.1	1303.9	878.7	771.6	724.4	692.9	677.2	677.2
37.5°	2170.0	2034.6	1984.2	1814.1	1168.5	796.8	727.5	689.8	648.8	636.2	636.2
40°	2437.7	2258.2	2170.0	1788.9	1001.6	755.9	705.5	661.4	626.8	614.2	611.0
42.5°	2806.2	2563.7	2362.2	1732.2	859.8	737.0	692.9	642.5	614.2	604.7	601.6
45°	3196.8	2982.6	2544.8	1631.5	768.5	718.1	689.8	636.2	601.6	592.1	589.0
47.5°	3669.2	3448.8	2755.9	1477.1	705.5	705.5	686.6	626.8	595.3	585.8	585.8
50°	4192.0	4009.4	3023.6	1300.8	658.3	696.0	680.3	626.8	592.1	582.7	579.5
52.5°	4727.5	4642.4	3303.9	1127.5	611.0	683.5	677.2	626.8	585.8	576.4	576.4
55°	5407.8	5338.5	3628.3	998.4	573.2	658.3	677.2	620.5	576.4	570.1	570.1
57.5°	6075.5	6050.3	3880.2	885.0	544.9	626.8	667.7	611.0	566.9	563.8	563.8
60°	6645.5	6620.3	3987.3	743.3	516.5	595.3	648.8	595.3	551.2	554.3	554.3
62.5°	6998.3	6853.4	3908.6	614.2	488.2	566.9	626.8	576.4	535.4	544.9	541.7
65°	7061.3	6724.3	3603.1	513.4	456.7	535.4	601.6	554.3	513.4	535.4	532.3
67.5°	6598.3	6037.7	3029.9	447.2	425.2	500.8	573.2	522.8	488.2	519.7	510.2
70°	5596.7	4903.8	2242.5	396.8	393.7	459.8	535.4	485.0	453.5	469.3	456.7
72.5°	4166.8	3540.1	1451.9	359.0	359.0	412.6	481.9	437.8	406.3	409.4	396.8
75°	2598.4	2176.3	825.2	324.4	324.4	365.3	428.3	384.2	362.2	349.6	365.3
77.5°	1181.1	957.5	434.6	289.8	292.9	311.8	368.5	327.6	302.4	283.5	292.9
80°	437.8	390.5	283.5	248.8	255.1	258.3	296.1	261.4	239.4	226.8	220.5
82.5°	226.8	211.0	192.1	198.4	207.9	198.4	229.9	195.3	170.1	160.6	135.4
85°	113.4	110.2	116.5	132.3	144.9	122.8	138.6	126.0	103.9	75.6	75.6
87.5°	44.1	47.2	44.1	59.8	66.1	56.7	63.0	44.1	31.5	15.7	12.6
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)