

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: P572649

Luminaire Tested: **ARCH-S-PA2-100-727-U-T3**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P572649
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-PA2-100-727-U-T3
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 1010mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11631 lumens
Efficiency: N/A
Efficacy: 112.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

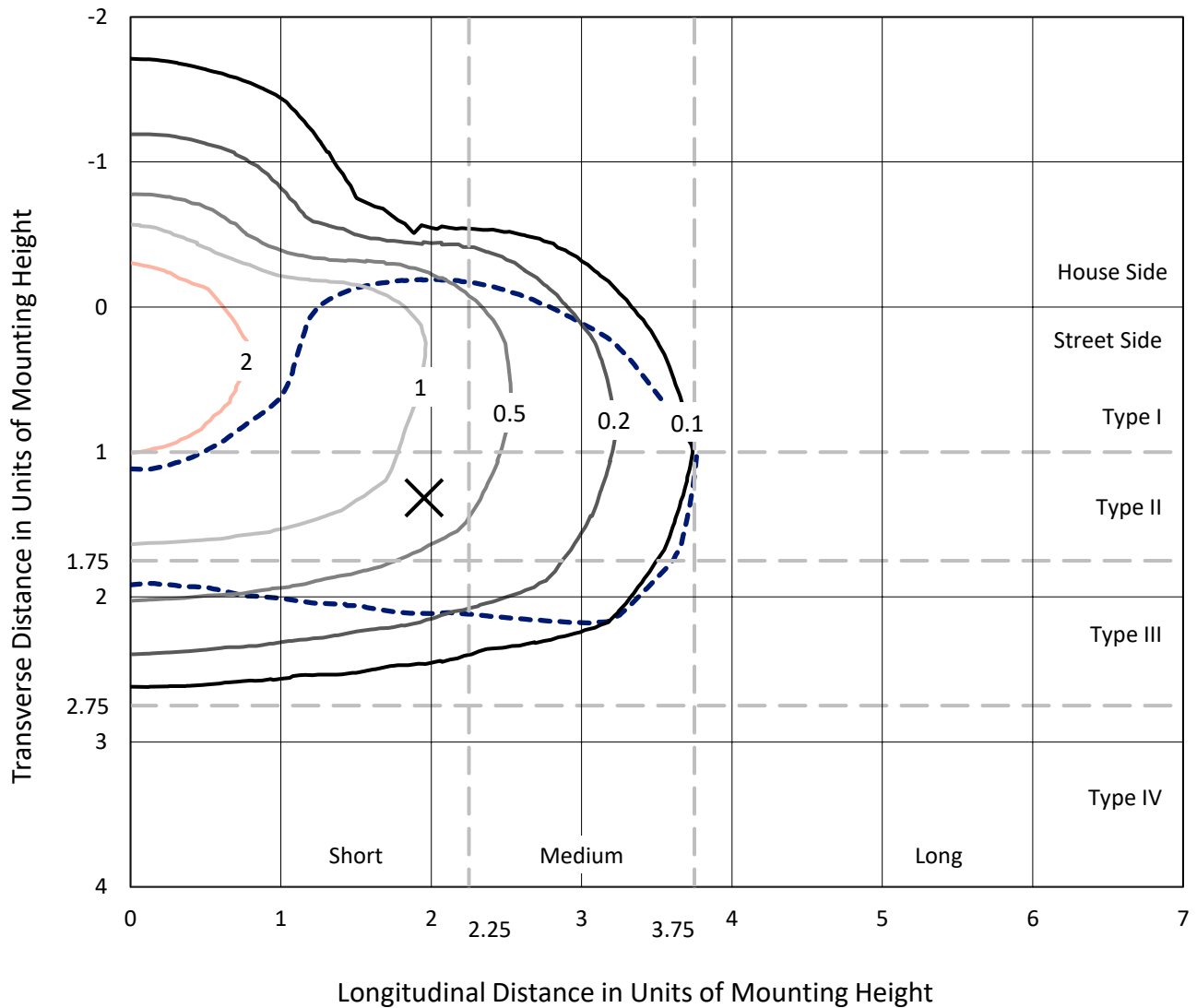
Input Watts (W): 103.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

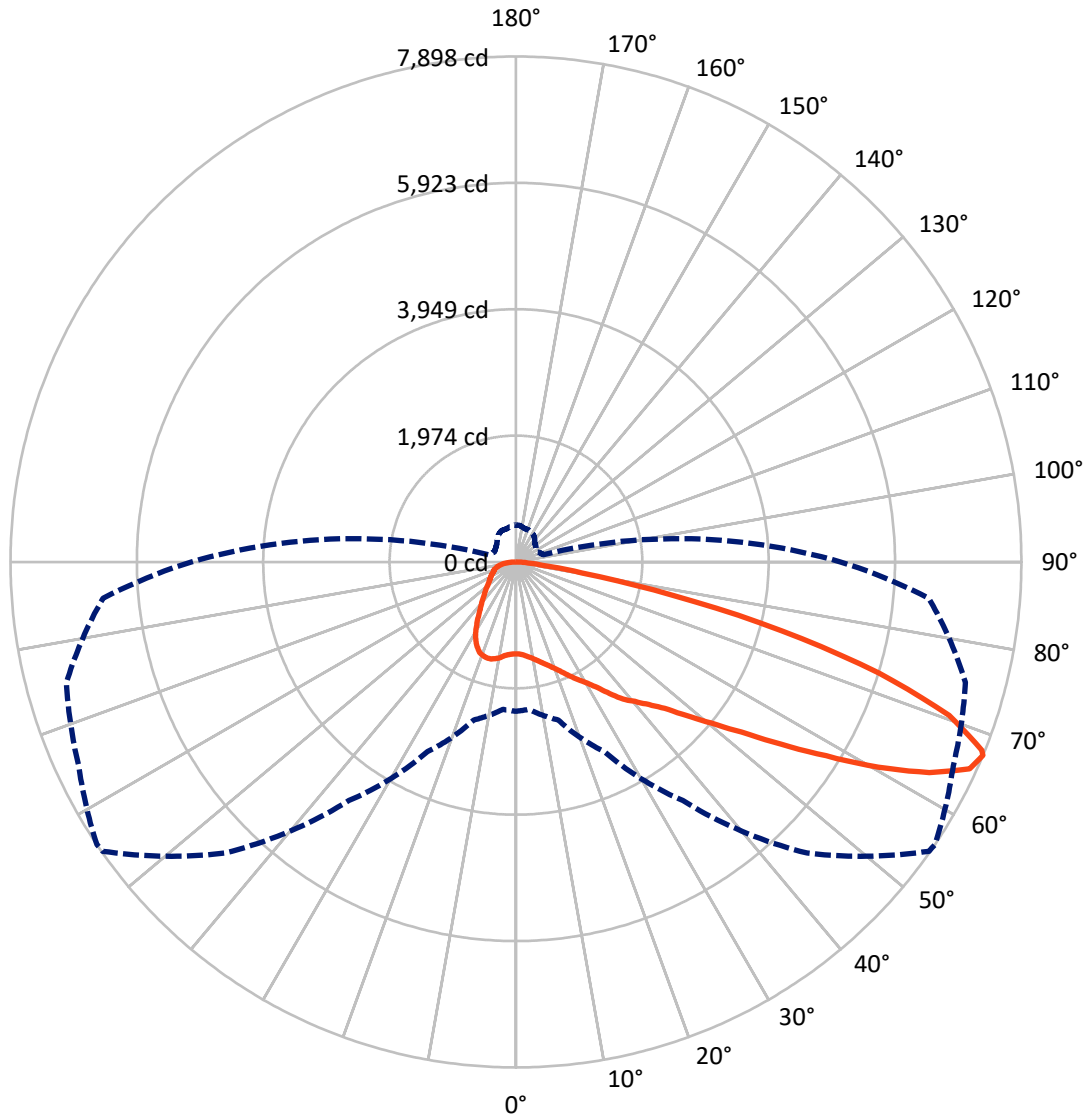
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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

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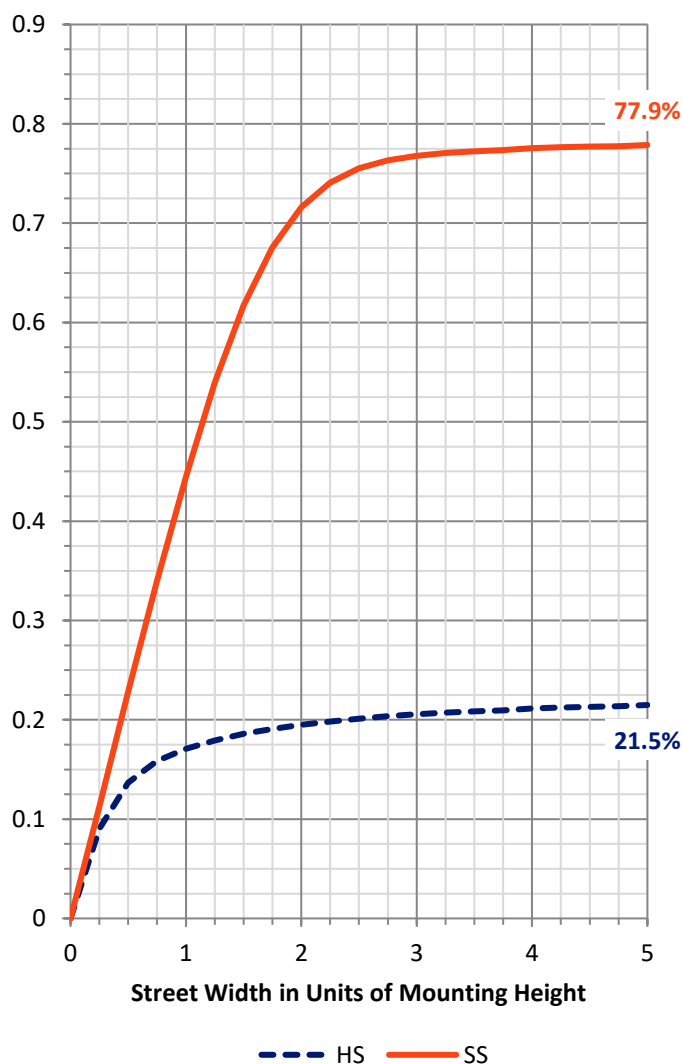
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2544.6	0.0	2544.6
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	9086.4	0.0	9086.4
	% Fixture	78.1	0.0	78.1
Total	Lumens	11631.0	0.0	11631.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.3	1.2
10°-20°	453.1	3.9
20°-30°	788.5	6.8
30°-40°	1156.1	9.9
40°-50°	1691.6	14.5
50°-60°	2643.7	22.7
60°-70°	3142.2	27.0
70°-80°	1431.1	12.3
80°-90°	183.5	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°	11631.0	100.0
0°-180°	11631.0	100.0

Coefficient of Utilization

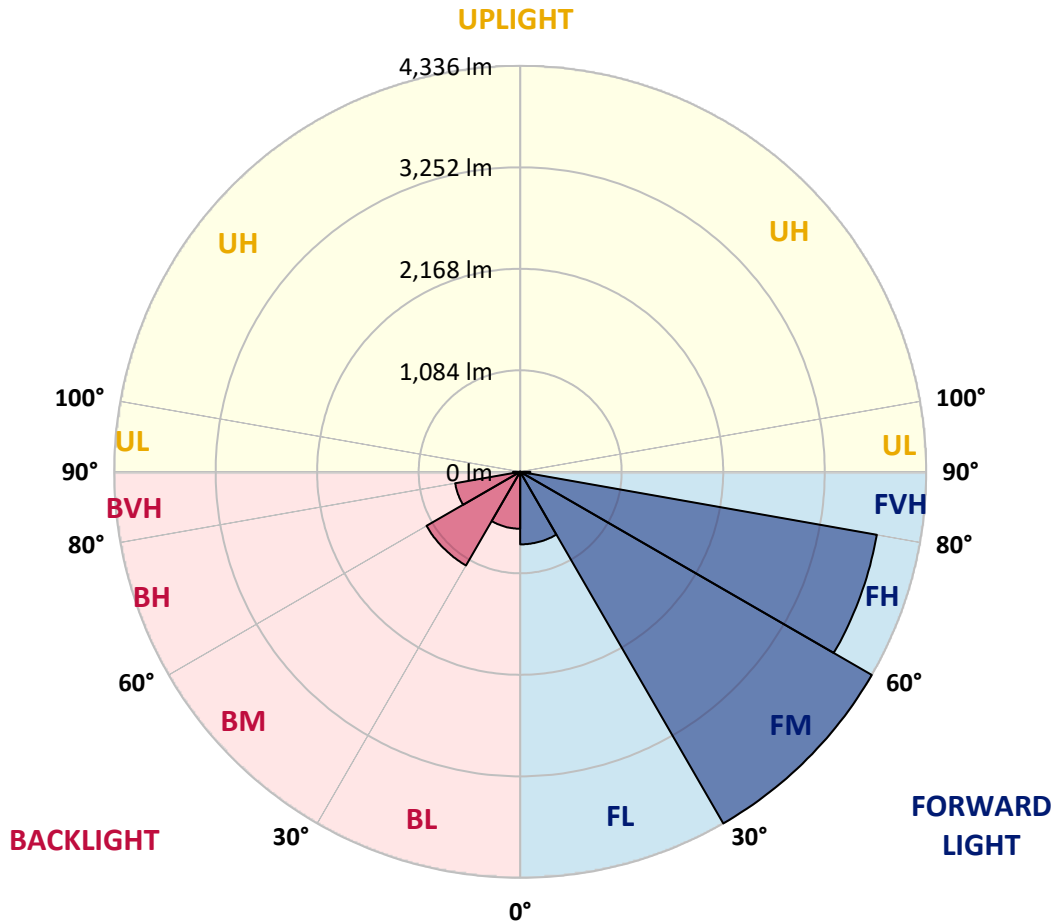


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	774.7	6.7			
FM (30°-60°)	4336.4	37.3			
FH (60°-80°)	3868.3	33.3			G2/5000
FVH (80°-90°)	107.0	0.9			G2/225
BL (0°-30°)	608.1	5.2	B2/1000		
BM (30°-60°)	1155.1	9.9	B2/2500		
BH (60°-80°)	705.0	6.1	B2/1000		G2/1000
BVH (80°-90°)	76.5	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°	55°	56°	65°	75°	85°
0°	1436.0	1436.0	1436.0	1436.0	1436.0	1436.0	1436.0	1436.0	1436.0	1436.0	1436.0
2.5°	1458.0	1451.7	1448.6	1451.7	1448.6	1442.3	1445.4	1442.3	1439.1	1436.0	1436.0
5°	1476.9	1470.6	1467.5	1470.6	1473.8	1467.5	1467.5	1467.5	1458.0	1454.9	1448.6
7.5°	1489.5	1480.1	1480.1	1486.4	1492.7	1495.8	1502.1	1499.0	1489.5	1483.2	1470.6
10°	1530.4	1517.8	1517.8	1517.8	1524.1	1530.4	1536.7	1539.9	1536.7	1533.6	1524.1
12.5°	1593.4	1580.8	1580.8	1580.8	1580.8	1577.7	1587.1	1590.3	1596.6	1596.6	1580.8
15°	1678.5	1662.7	1656.4	1643.8	1640.7	1634.4	1647.0	1647.0	1656.4	1659.6	1643.8
17.5°	1760.3	1741.4	1735.1	1722.5	1709.9	1694.2	1706.8	1709.9	1728.8	1732.0	1706.8
20°	1845.4	1839.1	1829.6	1810.7	1788.7	1772.9	1785.5	1782.4	1798.1	1804.4	1772.9
22.5°	1955.6	1939.8	1933.5	1908.3	1883.1	1867.4	1867.4	1873.7	1889.4	1889.4	1842.2
25°	2087.8	2065.8	2050.0	2021.7	1990.2	1971.3	1974.5	1980.8	2002.8	1987.1	1914.6
27.5°	2251.6	2229.5	2207.5	2150.8	2119.3	2081.5	2078.4	2084.7	2119.3	2078.4	1983.9
30°	2405.9	2396.4	2377.5	2333.5	2283.1	2220.1	2191.7	2194.9	2220.1	2163.4	2043.7
32.5°	2538.1	2525.5	2516.1	2484.6	2450.0	2374.4	2336.6	2339.8	2336.6	2267.3	2116.2
35°	2695.6	2676.7	2670.4	2642.1	2598.0	2547.6	2531.8	2525.5	2506.7	2412.2	2210.6
37.5°	2846.8	2827.9	2818.4	2802.7	2768.0	2723.9	2723.9	2720.8	2683.0	2550.7	2305.1
40°	3026.2	3004.2	2975.9	2966.4	2938.1	2906.6	2881.4	2865.6	2799.5	2679.9	2487.8
42.5°	3243.5	3230.9	3215.2	3174.3	3130.2	3123.9	3051.4	3045.1	2997.9	2928.6	2746.0
45°	3555.3	3530.1	3508.1	3495.5	3441.9	3385.2	3284.5	3259.3	3259.3	3243.5	3048.3
47.5°	3870.2	3826.1	3857.6	3848.2	3835.6	3772.6	3577.3	3580.5	3574.2	3615.1	3492.3
50°	4081.2	4056.0	4144.2	4185.1	4273.3	4273.3	3993.0	3958.4	3983.6	4103.2	3945.8
52.5°	4244.9	4229.2	4330.0	4490.6	4751.9	4777.1	4487.4	4415.0	4449.6	4619.7	4556.7
55°	4377.2	4361.5	4478.0	4758.2	5177.1	5331.4	5057.4	5025.9	4956.6	5139.3	5158.2
57.5°	4455.9	4421.3	4597.6	4972.4	5523.5	5879.3	5725.0	5715.5	5554.9	5725.0	5810.0
60°	4336.3	4314.2	4556.7	5060.5	5803.7	6395.7	6509.1	6509.1	6222.5	6313.9	6417.8
62.5°	3948.9	3920.6	4175.7	4855.9	5838.4	6817.7	7286.9	7249.1	6865.0	6861.8	6770.5
65°	3212.0	3177.4	3464.0	4182.0	5400.6	6868.1	7812.8	7790.8	7346.8	7220.8	6792.5
67°	2333.5	2311.4	2557.0	3268.7	4550.4	6430.4	7879.0	7897.9	7538.9	7271.2	6474.5
67.5°	2094.1	2091.0	2295.7	3001.1	4301.6	6269.8	7834.9	7853.8	7535.7	7230.2	6348.5
70°	976.2	1020.3	1212.4	1719.4	2900.3	4937.7	7110.6	7183.0	7132.6	6757.9	5347.1
72.5°	453.5	472.4	557.4	831.4	1558.8	3183.7	5762.8	5936.0	6156.4	5797.4	4235.5
75°	280.3	286.6	333.8	431.4	733.7	1530.4	4103.2	4292.2	4626.0	4361.5	2708.2
77.5°	220.4	223.6	255.1	308.6	428.3	658.2	2251.6	2487.8	2922.3	2579.1	1363.5
80°	163.8	170.0	195.2	239.3	302.3	336.9	957.3	1045.5	1410.8	1080.1	566.8
82.5°	119.7	126.0	151.2	173.2	211.0	214.1	390.5	412.5	604.6	437.7	245.6
85°	100.8	100.8	116.5	129.1	141.7	119.7	192.1	188.9	233.0	198.4	97.6
87.5°	47.2	50.4	110.2	81.9	69.3	50.4	56.7	59.8	72.4	78.7	37.8
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°	1436.0	1436.0	1436.0	1436.0	1436.0	1436.0	1436.0	1436.0	1436.0	1436.0	1436.0
2.5°	1432.8	1432.8	1432.8	1436.0	1439.1	1439.1	1442.3	1442.3	1445.4	1448.6	1454.9
5°	1445.4	1445.4	1442.3	1445.4	1451.7	1454.9	1461.2	1467.5	1473.8	1480.1	1483.2
7.5°	1470.6	1467.5	1467.5	1467.5	1473.8	1480.1	1489.5	1495.8	1505.3	1508.4	1514.7
10°	1517.8	1511.6	1511.6	1514.7	1517.8	1508.4	1505.3	1502.1	1511.6	1517.8	1524.1
12.5°	1574.5	1568.2	1565.1	1555.6	1543.0	1524.1	1508.4	1495.8	1499.0	1505.3	1514.7
15°	1634.4	1621.8	1615.5	1593.4	1561.9	1521.0	1495.8	1480.1	1480.1	1480.1	1489.5
17.5°	1697.3	1684.7	1659.6	1618.6	1558.8	1502.1	1470.6	1442.3	1429.7	1426.5	1432.8
20°	1757.2	1738.3	1697.3	1634.4	1539.9	1464.3	1423.4	1376.1	1357.2	1344.6	1350.9
22.5°	1813.9	1788.7	1732.0	1634.4	1508.4	1407.6	1335.2	1272.2	1240.7	1234.4	1237.6
25°	1873.7	1842.2	1766.6	1615.5	1439.1	1322.6	1221.8	1155.7	1114.8	1108.5	1117.9
27.5°	1933.5	1886.3	1795.0	1565.1	1360.4	1206.1	1099.0	1036.0	1014.0	1001.4	1004.6
30°	1983.9	1939.8	1823.3	1495.8	1253.3	1070.7	973.1	944.7	929.0	922.7	922.7
32.5°	2050.0	2009.1	1842.2	1413.9	1127.4	947.9	884.9	862.8	850.2	834.5	837.7
35°	2131.9	2094.1	1832.8	1310.0	1007.7	866.0	815.6	784.1	755.8	733.7	730.6
37.5°	2242.1	2213.8	1785.5	1184.0	897.5	806.2	755.8	714.8	673.9	639.3	633.0
40°	2424.8	2358.6	1716.2	1045.5	821.9	758.9	699.1	648.7	598.3	560.5	551.1
42.5°	2657.8	2519.3	1621.8	903.8	758.9	708.5	648.7	582.6	535.3	500.7	500.7
45°	2928.6	2692.4	1508.4	796.7	692.8	658.2	585.7	529.0	500.7	478.7	475.5
47.5°	3249.8	2865.6	1363.5	711.7	639.3	614.1	541.6	507.0	488.1	469.2	466.1
50°	3681.3	3098.7	1256.5	639.3	585.7	563.7	529.0	500.7	481.8	469.2	466.1
52.5°	4175.7	3397.8	1180.9	582.6	541.6	532.2	525.9	503.9	485.0	475.5	472.4
55°	4711.0	3766.3	1108.5	535.3	507.0	519.6	532.2	510.1	497.6	485.0	478.7
57.5°	5214.8	4078.0	992.0	494.4	481.8	503.9	529.0	513.3	497.6	488.1	485.0
60°	5558.1	4235.5	831.4	456.6	456.6	481.8	519.6	497.6	481.8	485.0	485.0
62.5°	5668.3	4175.7	658.2	422.0	431.4	456.6	491.3	478.7	472.4	488.1	488.1
65°	5504.6	3933.2	525.9	393.6	406.2	425.1	475.5	488.1	507.0	541.6	544.8
67°	5076.3	3542.7	444.0	371.6	384.2	415.7	494.4	538.5	538.5	576.3	576.3
67.5°	4950.3	3410.4	431.4	365.3	381.0	415.7	503.9	551.1	538.5	582.6	582.6
70°	4024.5	2683.0	365.3	346.4	368.4	437.7	544.8	554.2	525.9	566.8	563.7
72.5°	2985.3	1939.8	333.8	327.5	343.2	412.5	541.6	532.2	491.3	503.9	494.4
75°	1845.4	1124.2	308.6	302.3	311.8	365.3	500.7	485.0	437.7	428.3	418.8
77.5°	891.2	570.0	264.5	274.0	283.4	318.1	440.9	425.1	384.2	362.1	359.0
80°	387.3	292.9	226.7	242.5	245.6	270.8	365.3	346.4	308.6	274.0	274.0
82.5°	192.1	163.8	179.5	201.5	195.2	217.3	286.6	255.1	226.7	188.9	182.6
85°	88.2	94.5	132.3	151.2	132.3	135.4	195.2	179.5	141.7	107.1	110.2
87.5°	31.5	44.1	75.6	91.3	66.1	63.0	103.9	75.6	44.1	12.6	15.7
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)