

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: P572658

Luminaire Tested: **ARCH-S-PA2-100-730-U-T3**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P572658
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-PA2-100-730-U-T3
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 1010mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12666 lumens
Efficiency: N/A
Efficacy: 122.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

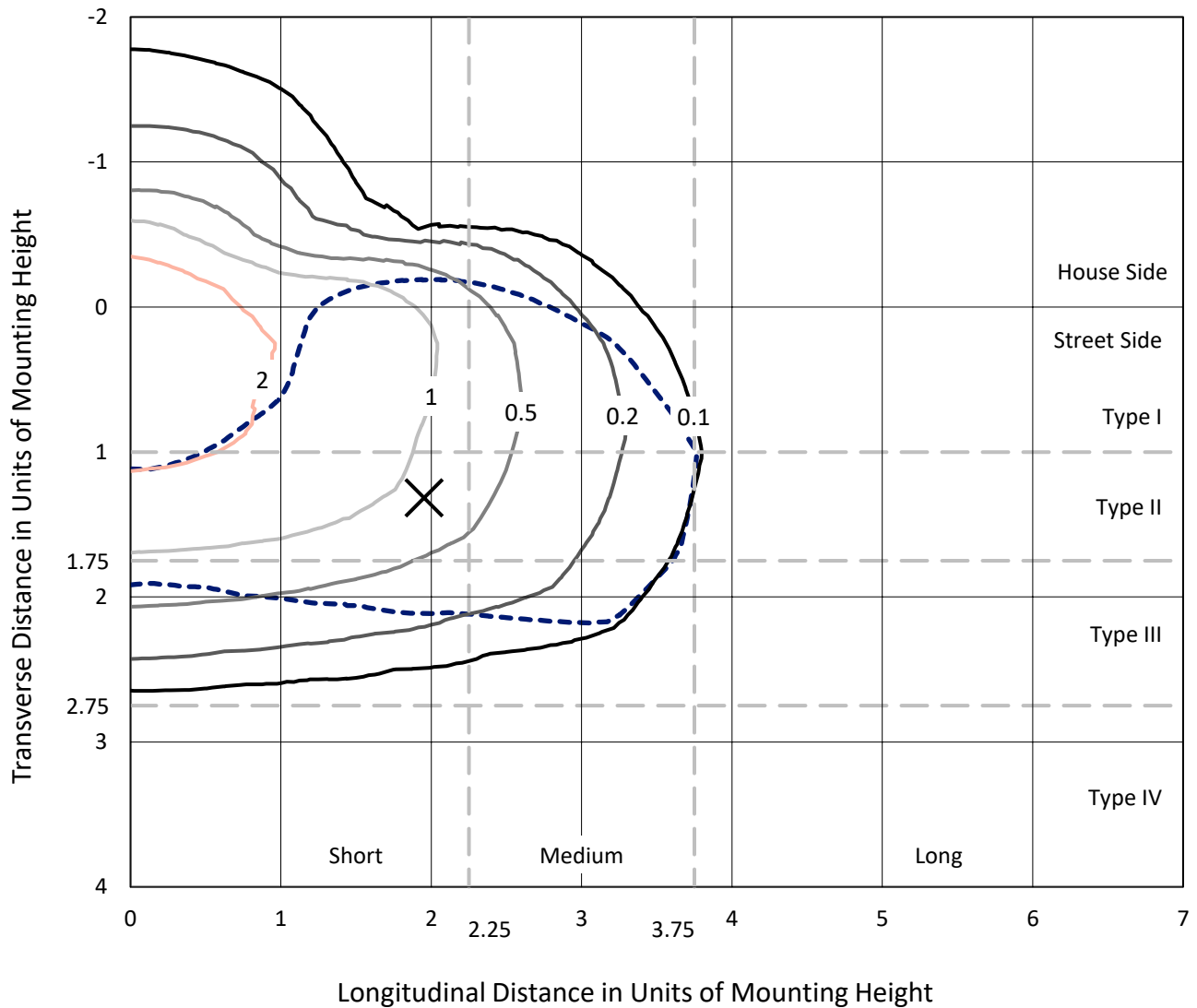
Input Watts (W): 103.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

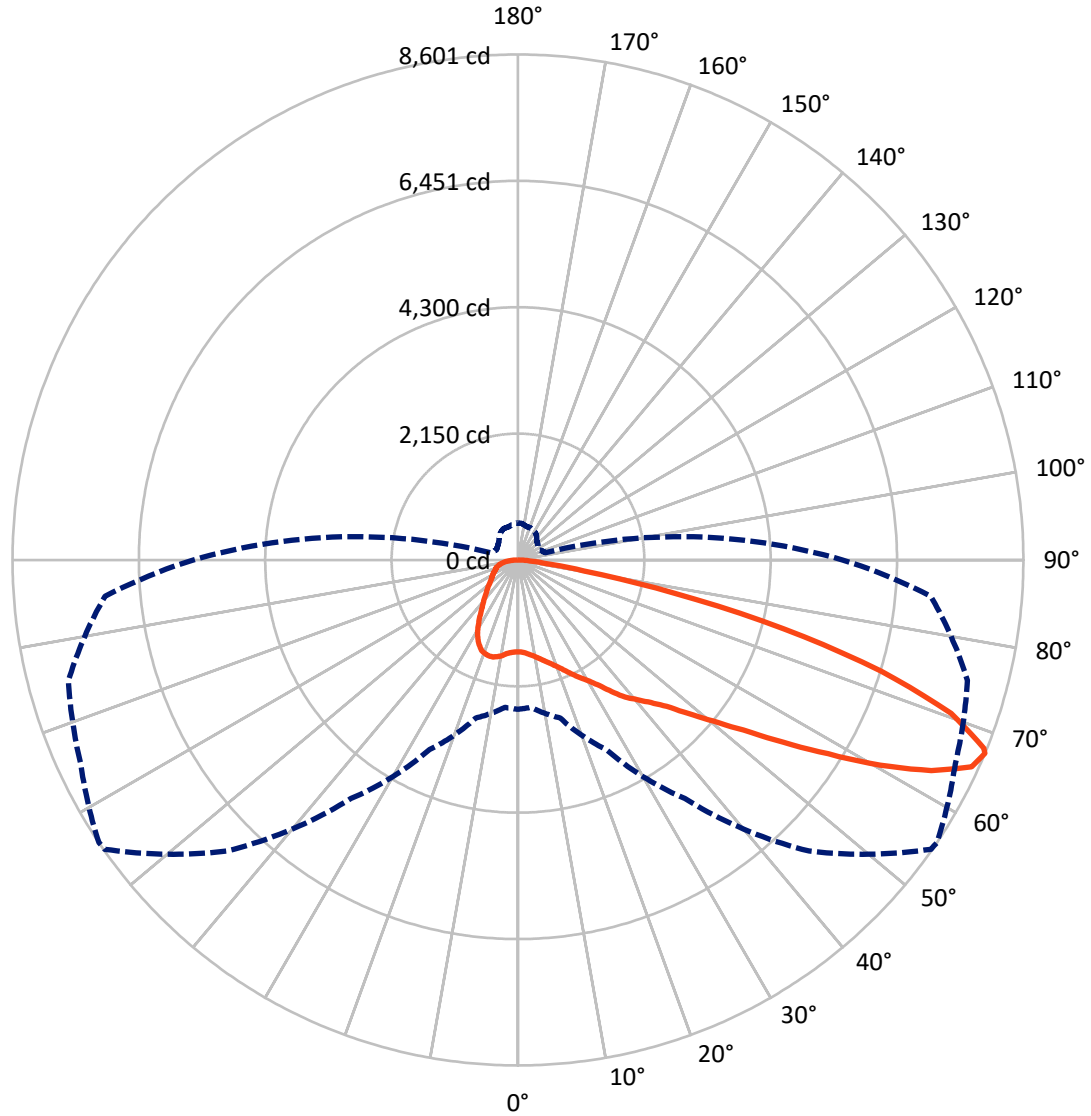
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 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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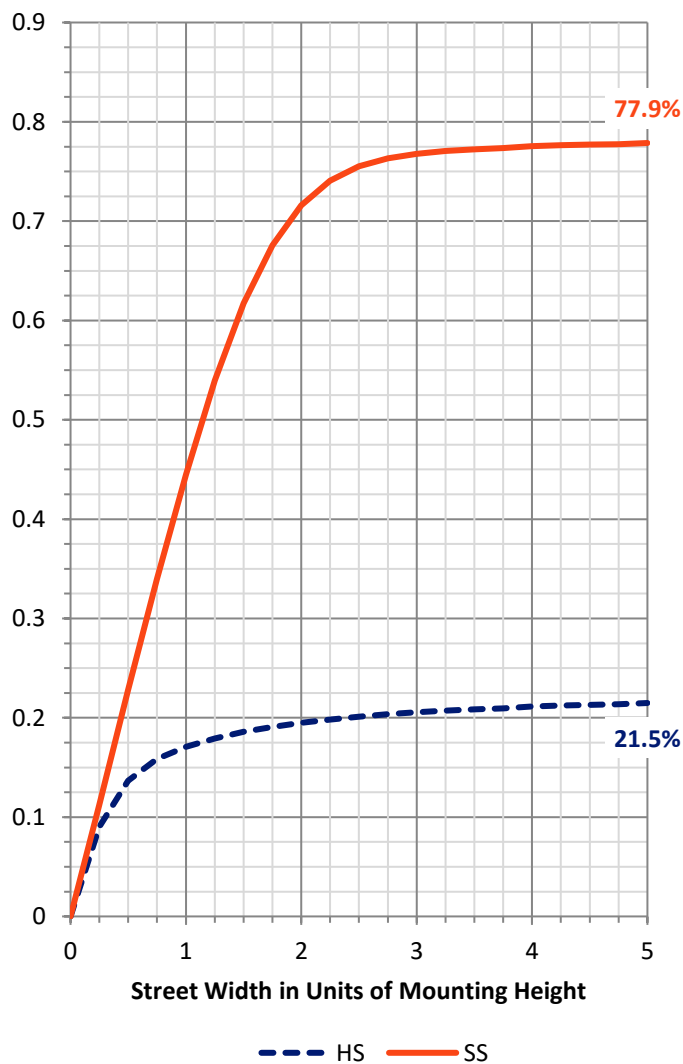
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2771.1	0.0	2771.1
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	9894.9	0.0	9894.9
	% Fixture	78.1	0.0	78.1
Total	Lumens	12666.0	0.0	12666.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.8	1.2
10°-20°	493.4	3.9
20°-30°	858.7	6.8
30°-40°	1259.0	9.9
40°-50°	1842.1	14.5
50°-60°	2879.0	22.7
60°-70°	3421.8	27.0
70°-80°	1558.4	12.3
80°-90°	199.8	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°	12666.0	100.0
0°-180°	12666.0	100.0

Coefficient of Utilization



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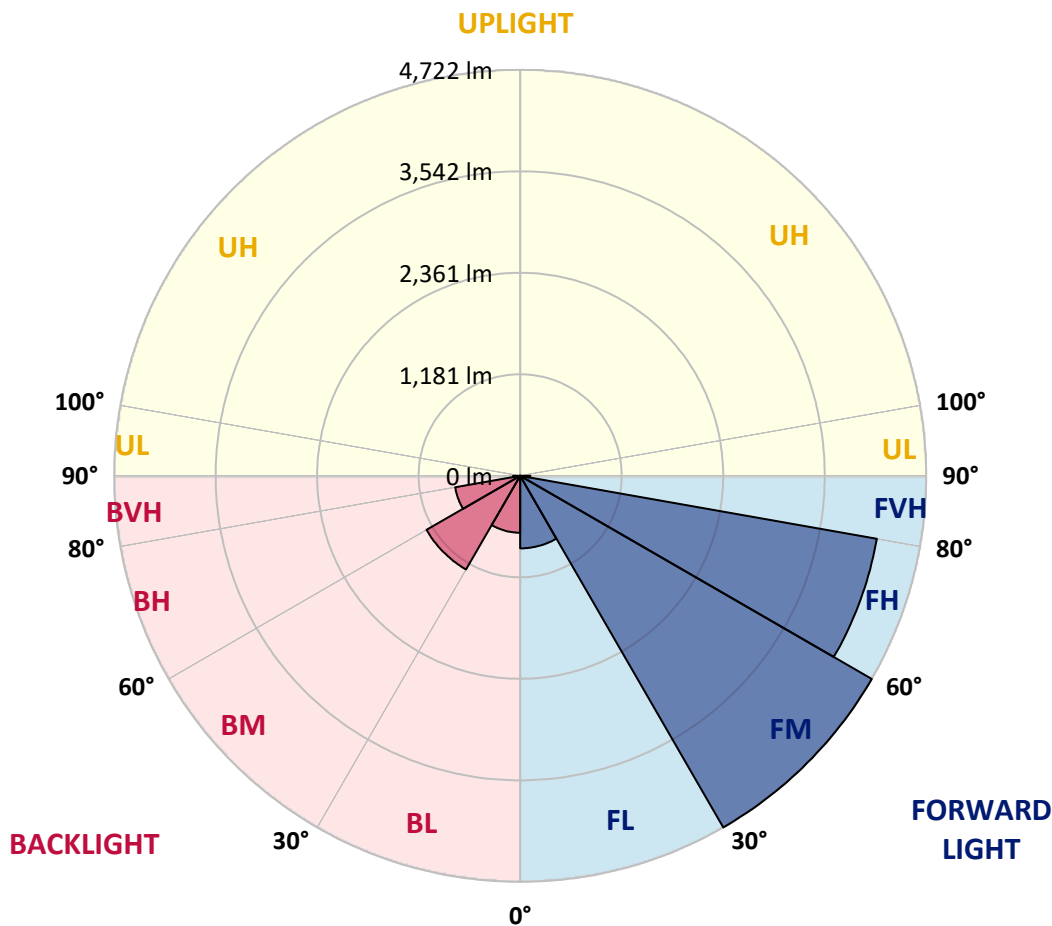
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	843.6	6.7			
FM (30°-60°)	4722.2	37.3			
FH (60°-80°)	4212.5	33.3			G2/5000
FVH (80°-90°)	116.5	0.9			G2/225
BL (0°-30°)	662.2	5.2	B2/1000		
BM (30°-60°)	1257.8	9.9	B2/2500		
BH (60°-80°)	767.7	6.1	B2/1000		G2/1000
BVH (80°-90°)	83.3	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°	1563.8	1563.8	1563.8	1563.8	1563.8	1563.8	1563.8	1563.8	1563.8	1563.8	1563.8
2.5°	1587.8	1580.9	1577.5	1580.9	1577.5	1570.6	1574.0	1570.6	1567.2	1563.8	1563.8
5°	1608.3	1601.5	1598.0	1601.5	1604.9	1598.0	1598.0	1598.0	1587.8	1584.3	1577.5
7.5°	1622.1	1611.8	1611.8	1618.6	1625.5	1628.9	1635.8	1632.3	1622.1	1615.2	1601.5
10°	1666.6	1652.9	1652.9	1652.9	1659.8	1666.6	1673.5	1676.9	1673.5	1670.1	1659.8
12.5°	1735.2	1721.5	1721.5	1721.5	1721.5	1718.1	1728.4	1731.8	1738.6	1738.6	1721.5
15°	1827.8	1810.7	1803.8	1790.1	1786.7	1779.8	1793.5	1793.5	1803.8	1807.2	1790.1
17.5°	1917.0	1896.4	1889.5	1875.8	1862.1	1845.0	1858.7	1862.1	1882.7	1886.1	1858.7
20°	2009.6	2002.7	1992.4	1971.8	1947.8	1930.7	1944.4	1941.0	1958.1	1965.0	1930.7
22.5°	2129.6	2112.4	2105.6	2078.1	2050.7	2033.6	2033.6	2040.4	2057.6	2057.6	2006.1
25°	2273.6	2249.6	2232.5	2201.6	2167.3	2146.7	2150.2	2157.0	2181.0	2163.9	2085.0
27.5°	2451.9	2427.9	2403.9	2342.2	2307.9	2266.8	2263.3	2270.2	2307.9	2263.3	2160.5
30°	2620.0	2609.7	2589.1	2541.1	2486.2	2417.6	2386.8	2390.2	2417.6	2355.9	2225.6
32.5°	2764.0	2750.3	2740.0	2705.7	2668.0	2585.7	2544.5	2548.0	2544.5	2469.1	2304.5
35°	2935.5	2914.9	2908.0	2877.2	2829.2	2774.3	2757.1	2750.3	2729.7	2626.8	2407.4
37.5°	3100.1	3079.5	3069.2	3052.1	3014.3	2966.3	2966.3	2962.9	2921.8	2777.7	2510.2
40°	3295.5	3271.5	3240.7	3230.4	3199.5	3165.2	3137.8	3120.7	3048.6	2918.3	2709.1
42.5°	3532.2	3518.4	3501.3	3456.7	3408.7	3401.9	3323.0	3316.1	3264.7	3189.2	2990.3
45°	3871.7	3844.2	3820.2	3806.5	3748.2	3686.5	3576.7	3549.3	3549.3	3532.2	3319.5
47.5°	4214.6	4166.6	4200.9	4190.6	4176.9	4108.3	3895.7	3899.1	3892.2	3936.8	3803.1
50°	4444.4	4416.9	4512.9	4557.5	4653.5	4653.5	4348.3	4310.6	4338.0	4468.4	4296.9
52.5°	4622.7	4605.5	4715.3	4890.2	5174.8	5202.2	4886.7	4807.9	4845.6	5030.8	4962.2
55°	4766.7	4749.6	4876.4	5181.7	5637.7	5805.8	5507.4	5473.1	5397.7	5596.6	5617.2
57.5°	4852.4	4814.7	5006.8	5414.8	6015.0	6402.5	6234.4	6224.2	6049.3	6234.4	6327.0
60°	4722.1	4698.1	4962.2	5510.9	6320.2	6964.9	7088.3	7088.3	6776.3	6875.7	6988.9
62.5°	4300.3	4269.5	4547.2	5288.0	6357.9	7424.4	7935.4	7894.2	7475.8	7472.4	7373.0
65°	3497.9	3460.2	3772.2	4554.1	5881.2	7479.3	8508.1	8484.1	8000.5	7863.4	7397.0
67°	2541.1	2517.1	2784.6	3559.6	4955.3	7002.6	8580.1	8600.7	8209.7	7918.2	7050.6
67.5°	2280.5	2277.0	2499.9	3268.1	4684.4	6827.7	8532.1	8552.6	8206.3	7873.6	6913.4
70°	1063.1	1111.1	1320.3	1872.4	3158.4	5377.1	7743.3	7822.2	7767.3	7359.2	5822.9
72.5°	493.8	514.4	607.0	905.3	1697.5	3467.0	6275.6	6464.2	6704.3	6313.3	4612.4
75°	305.2	312.1	363.5	469.8	799.0	1666.6	4468.4	4674.1	5037.6	4749.6	2949.2
77.5°	240.1	243.5	277.8	336.1	466.4	716.7	2451.9	2709.1	3182.4	2808.6	1484.9
80°	178.3	185.2	212.6	260.6	329.2	366.9	1042.5	1138.5	1536.3	1176.2	617.3
82.5°	130.3	137.2	164.6	188.6	229.8	233.2	425.2	449.2	658.4	476.7	267.5
85°	109.7	109.7	126.9	140.6	154.3	130.3	209.2	205.8	253.8	216.0	106.3
87.5°	51.4	54.9	120.0	89.2	75.4	54.9	61.7	65.2	78.9	85.7	41.2
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°	1563.8	1563.8	1563.8	1563.8	1563.8	1563.8	1563.8	1563.8	1563.8	1563.8	1563.8
2.5°	1560.3	1560.3	1560.3	1563.8	1567.2	1567.2	1570.6	1570.6	1574.0	1577.5	1584.3
5°	1574.0	1574.0	1570.6	1574.0	1580.9	1584.3	1591.2	1598.0	1604.9	1611.8	1615.2
7.5°	1601.5	1598.0	1598.0	1598.0	1604.9	1611.8	1622.1	1628.9	1639.2	1642.6	1649.5
10°	1652.9	1646.1	1646.1	1649.5	1652.9	1642.6	1639.2	1635.8	1646.1	1652.9	1659.8
12.5°	1714.6	1707.8	1704.4	1694.1	1680.4	1659.8	1642.6	1628.9	1632.3	1639.2	1649.5
15°	1779.8	1766.1	1759.2	1735.2	1700.9	1656.3	1628.9	1611.8	1611.8	1611.8	1622.1
17.5°	1848.4	1834.7	1807.2	1762.7	1697.5	1635.8	1601.5	1570.6	1556.9	1553.5	1560.3
20°	1913.5	1893.0	1848.4	1779.8	1676.9	1594.6	1550.0	1498.6	1478.0	1464.3	1471.2
22.5°	1975.3	1947.8	1886.1	1779.8	1642.6	1532.9	1454.0	1385.4	1351.1	1344.3	1347.7
25°	2040.4	2006.1	1923.8	1759.2	1567.2	1440.3	1330.6	1258.5	1214.0	1207.1	1217.4
27.5°	2105.6	2054.1	1954.7	1704.4	1481.5	1313.4	1196.8	1128.2	1104.2	1090.5	1093.9
30°	2160.5	2112.4	1985.6	1628.9	1364.9	1166.0	1059.6	1028.8	1011.6	1004.8	1004.8
32.5°	2232.5	2187.9	2006.1	1539.7	1227.7	1032.2	963.6	939.6	925.9	908.8	912.2
35°	2321.6	2280.5	1995.8	1426.6	1097.4	943.1	888.2	853.9	823.0	799.0	795.6
37.5°	2441.7	2410.8	1944.4	1289.4	977.3	877.9	823.0	778.4	733.9	696.1	689.3
40°	2640.6	2568.5	1869.0	1138.5	895.0	826.5	761.3	706.4	651.6	610.4	600.1
42.5°	2894.3	2743.4	1766.1	984.2	826.5	771.6	706.4	634.4	583.0	545.3	545.3
45°	3189.2	2932.0	1642.6	867.6	754.4	716.7	637.8	576.1	545.3	521.3	517.8
47.5°	3539.0	3120.7	1484.9	775.0	696.1	668.7	589.8	552.1	531.5	511.0	507.5
50°	4008.8	3374.4	1368.3	696.1	637.8	613.8	576.1	545.3	524.7	511.0	507.5
52.5°	4547.2	3700.2	1286.0	634.4	589.8	579.5	572.7	548.7	528.1	517.8	514.4
55°	5130.2	4101.4	1207.1	583.0	552.1	565.8	579.5	555.5	541.8	528.1	521.3
57.5°	5678.9	4440.9	1080.2	538.4	524.7	548.7	576.1	559.0	541.8	531.5	528.1
60°	6052.7	4612.4	905.3	497.2	497.2	524.7	565.8	541.8	524.7	528.1	528.1
62.5°	6172.7	4547.2	716.7	459.5	469.8	497.2	535.0	521.3	514.4	531.5	531.5
65°	5994.4	4283.2	572.7	428.7	442.4	463.0	517.8	531.5	552.1	589.8	593.3
67°	5528.0	3857.9	483.5	404.7	418.4	452.7	538.4	586.4	586.4	627.6	627.6
67.5°	5390.8	3713.9	469.8	397.8	414.9	452.7	548.7	600.1	586.4	634.4	634.4
70°	4382.6	2921.8	397.8	377.2	401.2	476.7	593.3	603.6	572.7	617.3	613.8
72.5°	3251.0	2112.4	363.5	356.6	373.8	449.2	589.8	579.5	535.0	548.7	538.4
75°	2009.6	1224.3	336.1	329.2	339.5	397.8	545.3	528.1	476.7	466.4	456.1
77.5°	970.5	620.7	288.1	298.3	308.6	346.4	480.1	463.0	418.4	394.4	390.9
80°	421.8	318.9	246.9	264.1	267.5	294.9	397.8	377.2	336.1	298.3	298.3
82.5°	209.2	178.3	195.5	219.5	212.6	236.6	312.1	277.8	246.9	205.8	198.9
85°	96.0	102.9	144.0	164.6	144.0	147.5	212.6	195.5	154.3	116.6	120.0
87.5°	34.3	48.0	82.3	99.4	72.0	68.6	113.2	82.3	48.0	13.7	17.1
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)