

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: P399240

Luminaire Tested: **ARCH-L-PA3-110-827-U-T2U**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399240
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-12)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-PA3-110-827-U-T2U
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 80 CRI, 2700K, 485mA LIGHT ENGINES WITH 24 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13403 lumens
Efficiency: N/A
Efficacy: 118.6 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

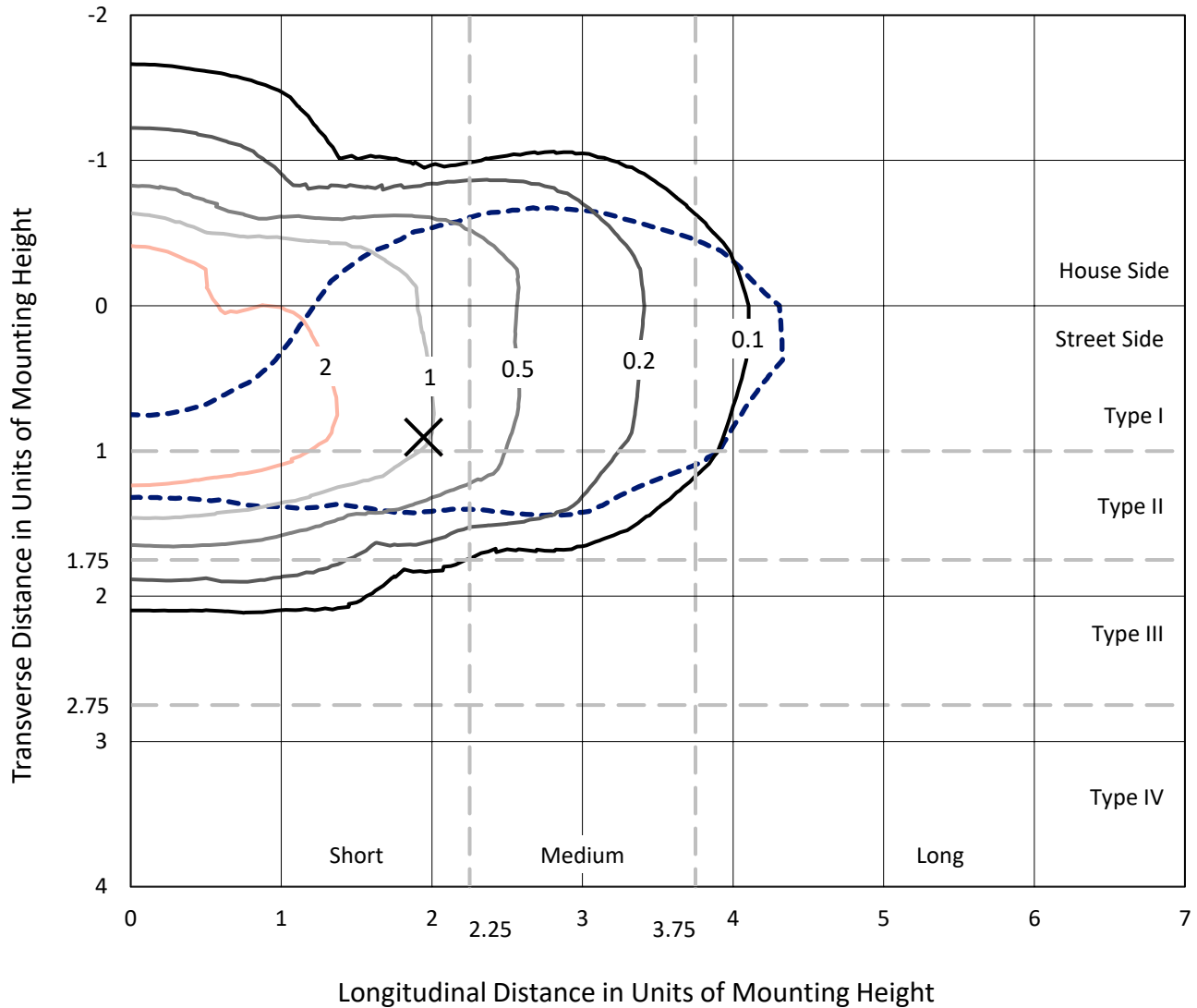
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

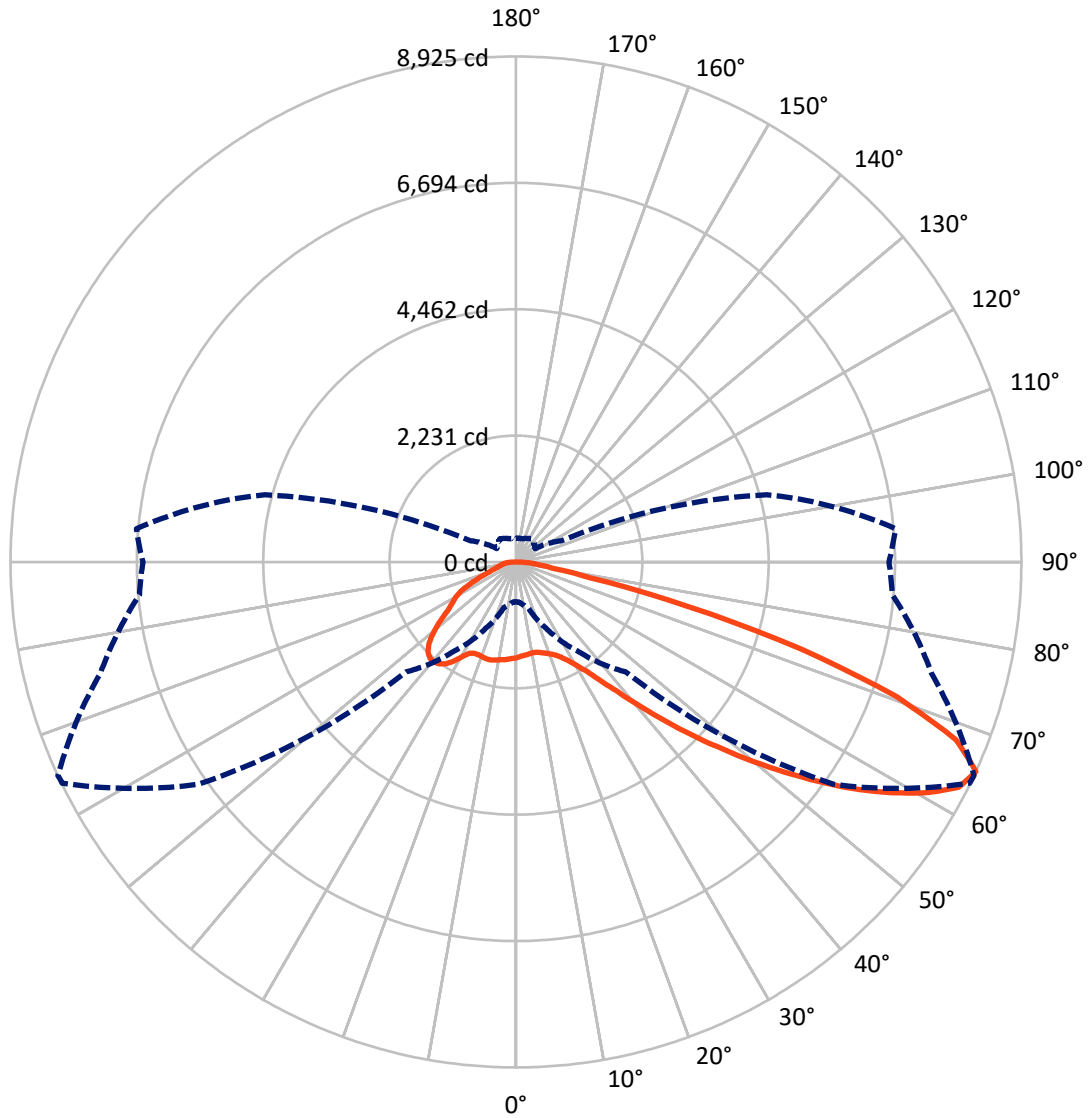
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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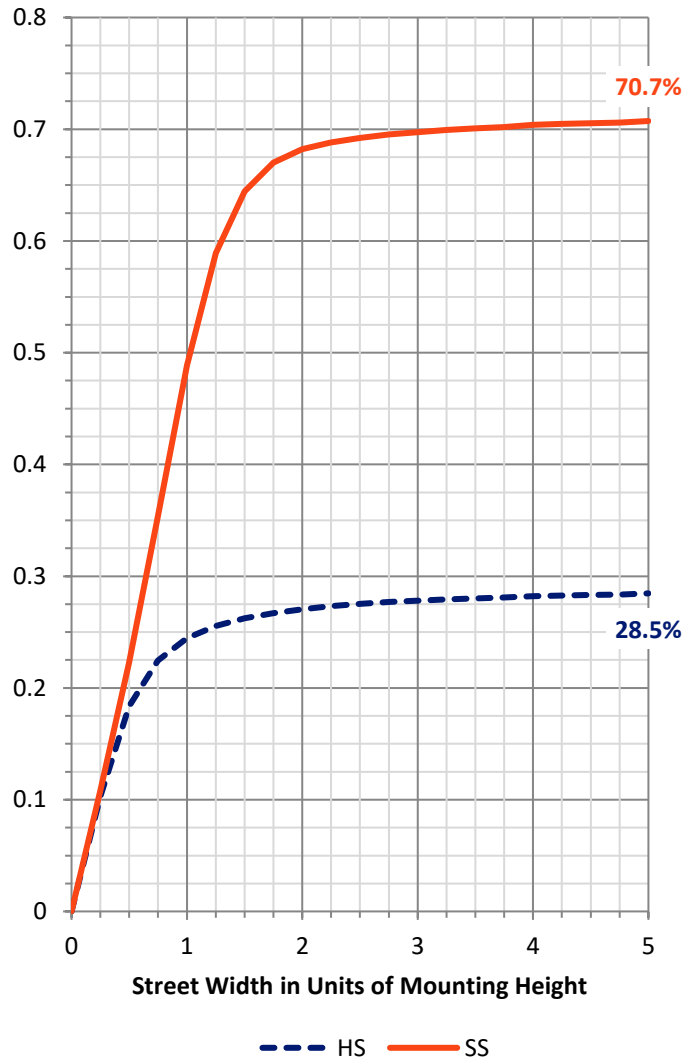
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3875.0	0.0	3875.0
	% Fixture	28.9	0.0	28.9
Street Side	Lumens	9528.0	0.0	9528.0
	% Fixture	71.1	0.0	71.1
Total	Lumens	13403.0	0.0	13403.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.3	1.2
10°-20°	481.7	3.6
20°-30°	855.7	6.4
30°-40°	1447.6	10.8
40°-50°	2520.0	18.8
50°-60°	3256.7	24.3
60°-70°	2849.8	21.3
70°-80°	1550.1	11.6
80°-90°	280.1	2.1
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°	13403.0	100.0
0°-180°	13403.0	100.0

Coefficient of Utilization

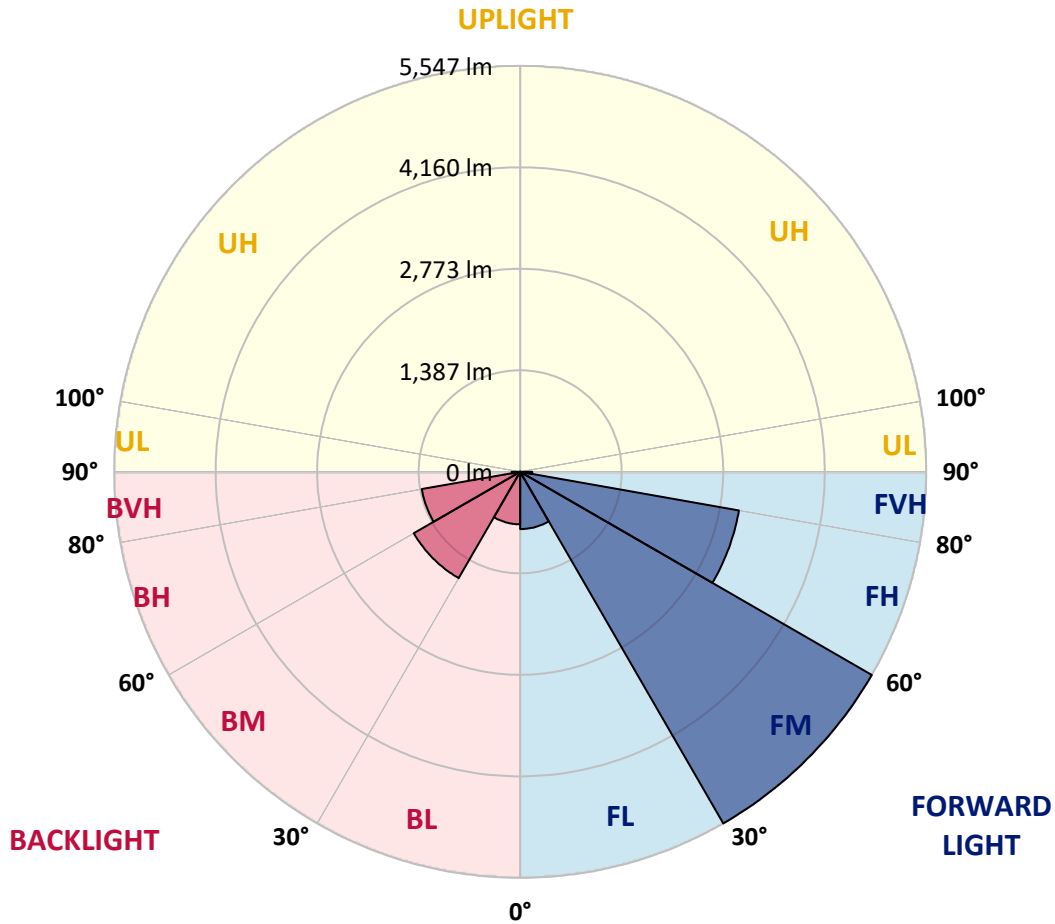


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	782.0	5.8			
FM (30°-60°)	5546.5	41.4			
FH (60°-80°)	3034.6	22.6			G2/5000
FVH (80°-90°)	164.8	1.2			G2/225
BL (0°-30°)	716.7	5.3	B2/1000		
BM (30°-60°)	1677.8	12.5	B2/2500		
BH (60°-80°)	1365.2	10.2	B3/2500		G3/2500
BVH (80°-90°)	115.3	0.9			G2/225
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°	64°	65°	75°	85°
0°	1693.6	1693.6	1693.6	1693.6	1693.6	1693.6	1693.6	1693.6	1693.6	1693.6	1693.6
2.5°	1663.6	1661.8	1658.3	1661.8	1663.6	1667.1	1665.4	1668.9	1667.1	1672.4	1681.2
5°	1621.3	1617.7	1616.0	1624.8	1630.1	1638.9	1642.4	1654.8	1653.0	1661.8	1676.0
7.5°	1573.6	1573.6	1571.9	1582.5	1589.5	1605.4	1617.7	1638.9	1640.7	1656.6	1672.4
10°	1536.6	1538.4	1536.6	1545.4	1556.0	1575.4	1596.6	1626.6	1628.3	1651.3	1667.1
12.5°	1522.5	1522.5	1522.5	1534.8	1548.9	1575.4	1600.1	1631.9	1635.4	1660.1	1674.2
15°	1541.9	1543.6	1540.1	1552.5	1568.3	1600.1	1623.0	1656.6	1660.1	1683.0	1691.8
17.5°	1610.7	1617.7	1608.9	1616.0	1612.4	1637.1	1658.3	1691.8	1693.6	1713.0	1716.5
20°	1746.5	1753.6	1739.5	1730.6	1698.9	1697.1	1705.9	1732.4	1732.4	1744.8	1735.9
22.5°	1956.5	1963.5	1938.8	1905.3	1829.4	1792.4	1773.0	1785.3	1783.6	1788.9	1765.9
25°	2235.2	2233.4	2203.4	2141.7	2020.0	1930.0	1882.4	1863.0	1863.0	1852.4	1824.1
27.5°	2581.0	2554.5	2501.6	2427.5	2258.1	2132.9	2030.6	1981.2	1972.3	1940.6	1887.7
30°	2949.7	2930.3	2854.4	2746.8	2551.0	2390.4	2221.1	2122.3	2117.0	2048.2	1968.8
32.5°	3383.7	3351.9	3267.2	3138.4	2903.8	2678.0	2466.3	2316.3	2307.5	2198.1	2088.8
35°	3941.1	3914.7	3750.6	3621.8	3320.2	3023.8	2773.3	2573.9	2566.9	2432.8	2293.4
37.5°	4609.8	4541.0	4382.2	4140.5	3822.9	3471.9	3154.3	2903.8	2895.0	2746.8	2570.4
40°	5206.1	5144.3	5003.2	4780.9	4440.4	4050.5	3620.1	3316.6	3307.8	3127.9	2905.6
42.5°	5647.1	5604.8	5513.0	5384.2	5140.8	4904.4	4214.6	3815.9	3800.0	3567.1	3290.2
45°	5902.9	5869.4	5816.5	5848.2	5844.7	5800.6	4923.8	4410.4	4359.3	4057.6	3718.9
47.5°	5841.1	5811.2	5832.3	6079.3	6419.8	6675.6	5749.4	5019.0	4950.2	4556.8	4175.8
50°	5394.8	5407.2	5518.3	5991.1	6755.0	7323.0	6665.0	5712.4	5620.6	5059.6	4609.8
52.5°	4581.5	4611.5	4881.4	5543.0	6717.9	7742.9	7492.4	6428.6	6306.9	5550.1	5004.9
55°	3639.5	3715.3	4064.6	4759.7	6234.6	7772.9	8116.9	7148.4	7014.3	6010.5	5348.9
57.5°	2692.1	2805.0	3209.0	3847.6	5308.4	7298.3	8429.2	7836.4	7674.1	6467.4	5712.4
60°	1707.7	1776.5	2242.3	2995.6	4062.9	6137.5	8388.6	8422.1	8281.0	6922.6	6091.7
62.5°	1090.3	1123.8	1358.4	2136.4	2840.3	4544.5	7945.8	8864.9	8769.7	7337.2	6451.6
65°	700.4	714.5	834.4	1314.3	1933.5	2743.3	6843.2	8912.6	8924.9	7596.5	6673.8
67.5°	569.8	576.9	621.0	811.5	1367.2	1515.4	4766.8	8235.1	8385.1	7529.5	6598.0
70°	518.7	527.5	573.4	647.4	1058.5	1046.1	2307.5	6890.8	7136.0	7143.1	6261.0
72.5°	437.5	449.9	511.6	612.2	818.6	825.6	977.3	4907.9	5269.6	6384.5	5754.7
75°	365.2	372.2	425.2	539.8	693.3	659.8	686.3	2602.1	3124.3	5119.6	5216.6
77.5°	296.4	303.4	342.2	430.5	615.7	513.4	539.8	1077.9	1331.9	3475.4	4264.0
80°	211.7	218.8	262.9	335.2	465.7	462.2	400.5	594.5	645.7	1878.8	2769.7
82.5°	151.7	157.0	199.4	239.9	322.8	464.0	301.7	404.0	423.4	832.7	1116.7
85°	102.3	102.3	137.6	158.8	208.2	292.9	243.5	273.4	285.8	395.2	301.7
87.5°	44.1	44.1	74.1	81.2	109.4	135.8	181.7	137.6	141.1	213.5	123.5
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°	1693.6	1693.6	1693.6	1693.6	1693.6	1693.6	1693.6	1693.6	1693.6	1693.6	1693.6
2.5°	1686.5	1688.3	1691.8	1702.4	1709.5	1720.1	1725.4	1732.4	1732.4	1728.9	1730.6
5°	1683.0	1688.3	1700.7	1720.1	1732.4	1751.8	1765.9	1776.5	1780.0	1776.5	1778.3
7.5°	1681.2	1690.1	1711.2	1739.5	1757.1	1781.8	1801.2	1813.6	1822.4	1818.9	1820.6
10°	1676.0	1690.1	1716.5	1751.8	1778.3	1803.0	1820.6	1825.9	1831.2	1827.7	1825.9
12.5°	1683.0	1698.9	1727.1	1769.5	1799.4	1818.9	1824.1	1815.3	1803.0	1795.9	1794.2
15°	1697.1	1713.0	1741.2	1785.3	1811.8	1818.9	1806.5	1778.3	1750.1	1734.2	1732.4
17.5°	1716.5	1727.1	1750.1	1788.9	1810.0	1801.2	1776.5	1743.0	1721.8	1709.5	1711.2
20°	1728.9	1728.9	1746.5	1776.5	1794.2	1787.1	1757.1	1720.1	1686.5	1670.7	1665.4
22.5°	1746.5	1737.7	1739.5	1765.9	1790.6	1780.0	1716.5	1651.3	1603.6	1586.0	1584.2
25°	1794.2	1769.5	1753.6	1769.5	1827.7	1741.2	1614.2	1538.4	1494.2	1478.4	1480.1
27.5°	1852.4	1818.9	1785.3	1811.8	1857.7	1653.0	1483.7	1397.2	1370.8	1358.4	1363.7
30°	1910.6	1866.5	1822.4	1917.6	1836.5	1515.4	1316.1	1231.4	1208.5	1199.6	1206.7
32.5°	2018.2	1945.9	1892.9	2058.8	1771.2	1358.4	1134.4	1056.7	1035.6	1025.0	1021.5
35°	2198.1	2106.4	2053.5	2182.3	1679.5	1183.8	968.5	913.8	890.9	868.0	864.4
37.5°	2457.5	2346.3	2298.7	2252.8	1550.7	1010.9	841.5	804.5	770.9	735.7	733.9
40°	2768.0	2623.3	2588.0	2284.6	1372.5	848.6	753.3	718.0	675.7	642.2	643.9
42.5°	3126.1	2940.9	2865.0	2275.8	1152.0	762.1	689.8	651.0	613.9	583.9	582.2
45°	3508.9	3299.0	3124.3	2214.0	933.2	702.1	651.0	605.1	568.1	534.5	531.0
47.5°	3932.3	3697.7	3364.3	2094.1	770.9	659.8	628.0	562.8	529.2	508.1	508.1
50°	4359.3	4078.7	3584.8	1912.4	675.7	628.0	594.5	539.8	513.4	495.7	495.7
52.5°	4724.4	4475.7	3766.5	1695.4	615.7	601.6	571.6	529.2	501.0	485.1	483.4
55°	5079.0	4844.4	3928.8	1480.1	566.3	566.3	566.3	520.4	488.7	474.6	472.8
57.5°	5431.9	5232.5	4098.2	1339.0	522.2	536.3	555.7	509.8	478.1	465.7	464.0
60°	5830.6	5698.3	4294.0	1240.2	483.4	504.6	541.6	497.5	460.4	449.9	448.1
62.5°	6254.0	6254.0	4472.2	1100.8	448.1	478.1	520.4	481.6	444.6	435.7	434.0
65°	6585.6	6728.5	4586.8	892.7	412.8	451.6	495.7	460.4	423.4	421.6	418.1
67.5°	6624.4	6848.5	4514.5	673.9	381.1	423.4	471.0	437.5	402.2	402.2	396.9
70°	6345.7	6573.3	4288.7	504.6	358.1	395.2	439.3	409.3	375.8	379.3	370.5
72.5°	5880.0	5936.4	3727.7	398.7	331.7	365.2	400.5	377.5	347.5	347.5	335.2
75°	5266.0	4952.0	2708.0	333.4	299.9	329.9	361.7	342.2	315.8	307.0	299.9
77.5°	4191.7	3588.3	1573.6	287.6	273.4	296.4	317.5	303.4	280.5	261.1	261.1
80°	2554.5	2102.9	695.1	248.7	241.7	259.3	273.4	257.6	238.2	218.8	213.5
82.5°	972.1	811.5	337.0	213.5	211.7	222.3	232.9	217.0	202.9	194.1	167.6
85°	266.4	245.2	231.1	178.2	174.7	172.9	185.2	178.2	158.8	130.5	116.4
87.5°	100.6	114.7	125.3	109.4	116.4	107.6	123.5	112.9	100.6	65.3	58.2
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)