

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: P400529

Luminaire Tested: **ARCH-L-PA3-90-760-U-T3**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P400529
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-10)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-PA3-90-760-U-T3
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 5700K, 400mA LIGHT ENGINES WITH 24 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15536 lumens
Efficiency: N/A
Efficacy: 167.1 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G3

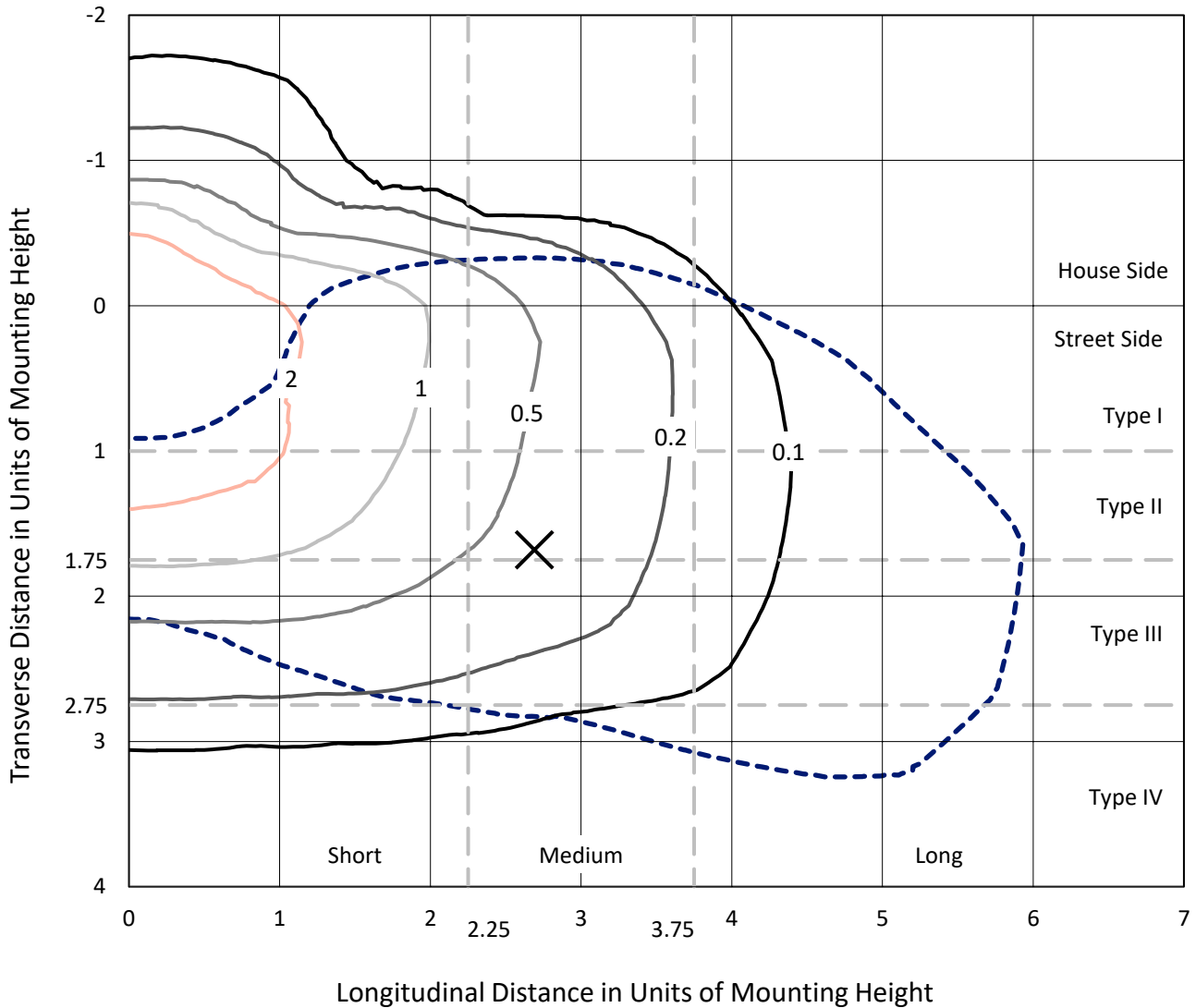
Input Watts (W): 93
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

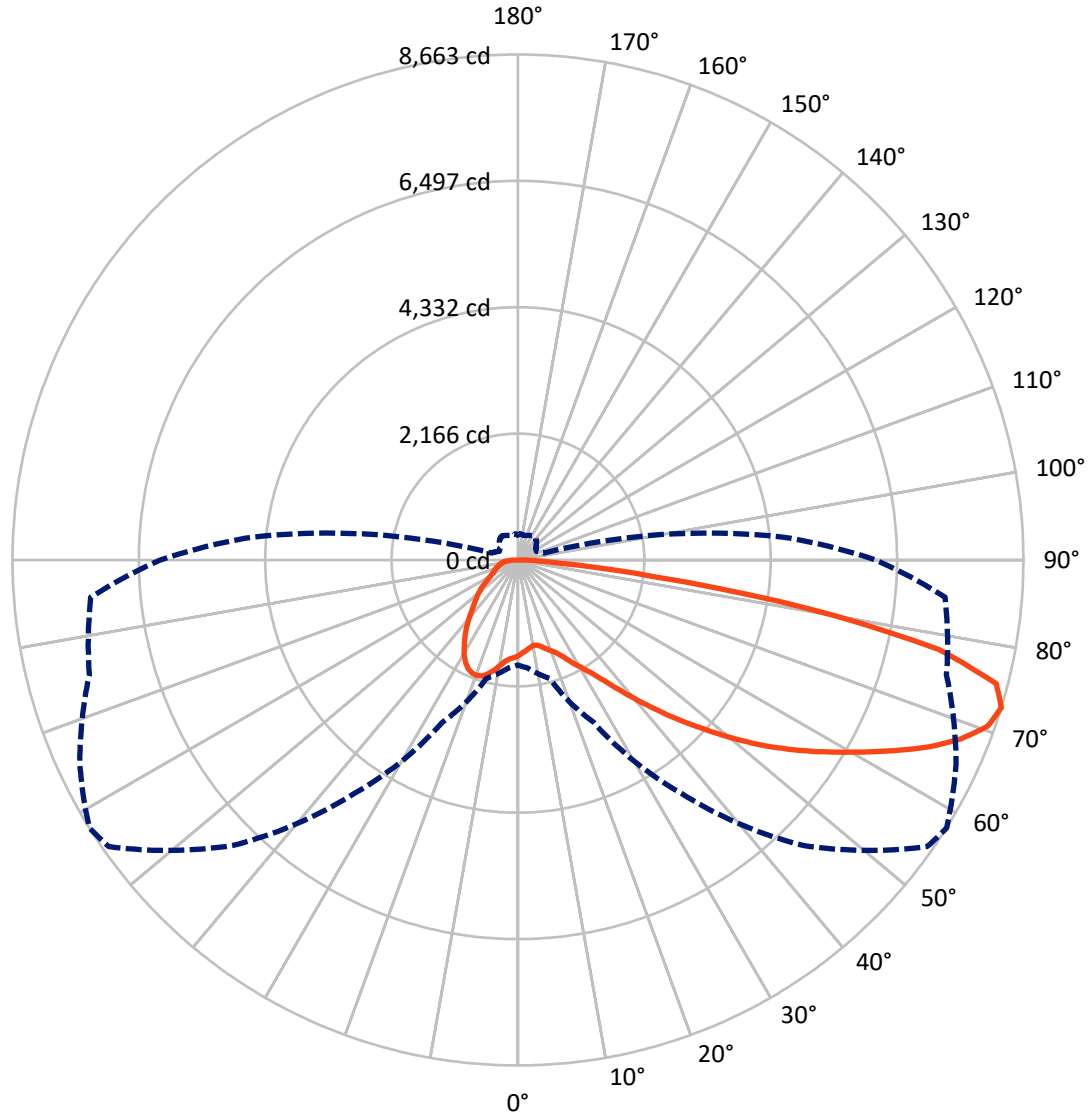
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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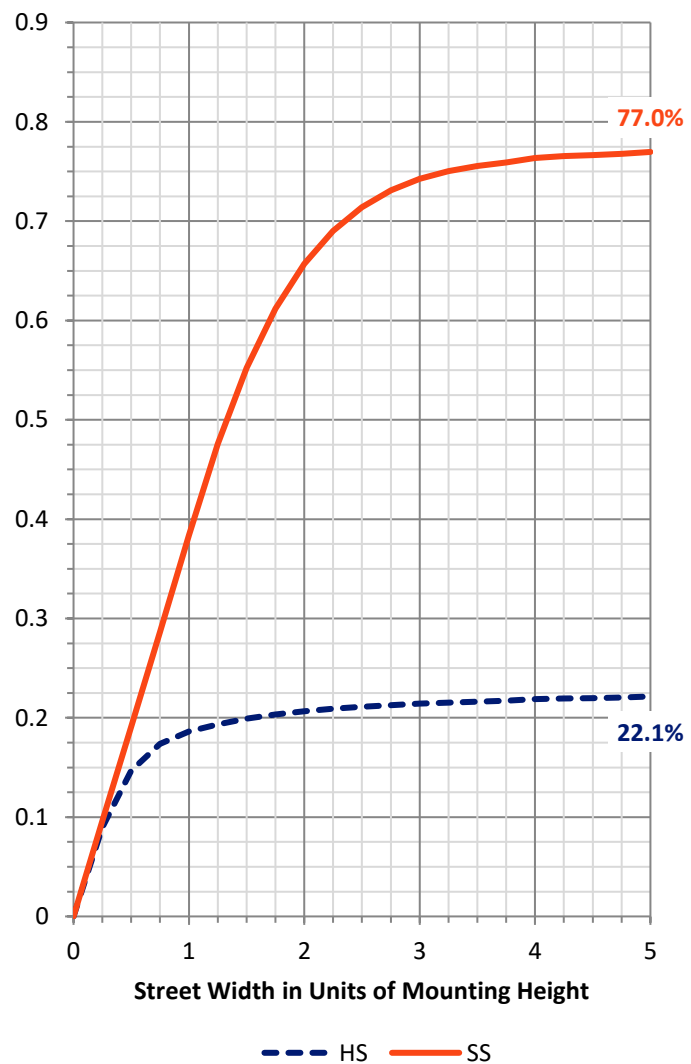
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3523.4	0.0	3523.4
	% Fixture	22.7	0.0	22.7
Street Side	Lumens	12012.6	0.0	12012.6
	% Fixture	77.3	0.0	77.3
Total	Lumens	15536.0	0.0	15536.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	157.9	1.0
10°-20°	501.3	3.2
20°-30°	898.0	5.8
30°-40°	1350.9	8.7
40°-50°	2187.6	14.1
50°-60°	3293.0	21.2
60°-70°	3875.5	24.9
70°-80°	2748.1	17.7
80°-90°	523.6	3.4
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°	15536.0	100.0
0°-180°	15536.0	100.0



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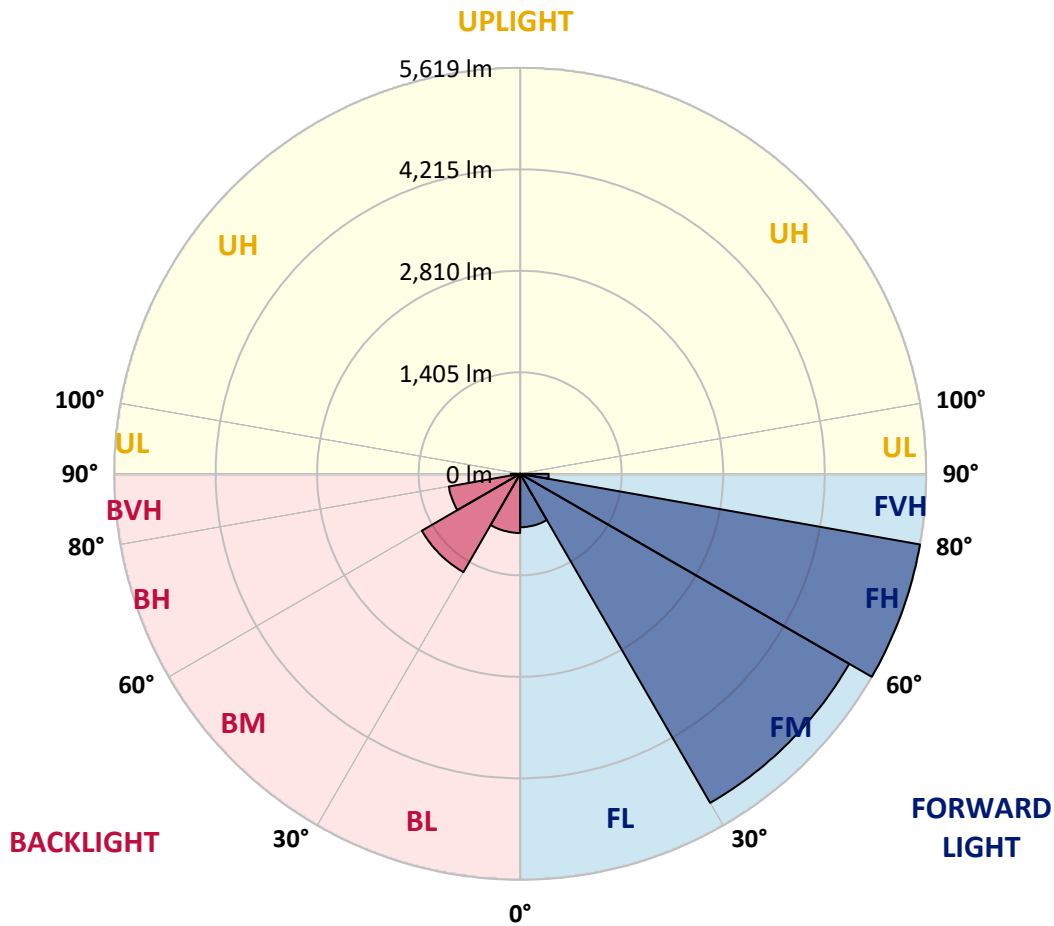
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	738.8	4.8			
FM (30°-60°)	5259.4	33.9			
FH (60°-80°)	5619.4	36.2			G3/7500
FVH (80°-90°)	395.0	2.5			G3/500
BL (0°-30°)	818.4	5.3	B2/1000		
BM (30°-60°)	1572.1	10.1	B2/2500		
BH (60°-80°)	1004.2	6.5	B3/2500		G3/2500
BVH (80°-90°)	128.7	0.8			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 IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1638.7	1638.7	1638.7	1638.7	1638.7	1638.7	1638.7	1638.7	1638.7	1638.7	1638.7
2.5°	1577.2	1569.0	1571.0	1571.0	1579.2	1583.3	1585.4	1591.5	1595.6	1605.9	1620.3
5°	1503.4	1497.2	1499.3	1501.3	1515.7	1530.0	1542.3	1550.5	1562.8	1579.2	1599.7
7.5°	1450.0	1445.9	1448.0	1452.1	1464.4	1480.8	1501.3	1513.6	1532.1	1562.8	1597.7
10°	1411.1	1411.1	1413.1	1421.3	1433.6	1454.1	1470.5	1484.9	1521.8	1577.2	1630.5
12.5°	1380.3	1380.3	1386.4	1402.9	1423.4	1443.9	1482.8	1499.3	1548.5	1624.4	1687.9
15°	1378.2	1380.3	1382.3	1396.7	1419.3	1464.4	1521.8	1546.4	1605.9	1696.1	1770.0
17.5°	1411.1	1413.1	1404.9	1409.0	1435.7	1499.3	1575.1	1603.9	1679.7	1778.2	1854.1
20°	1511.6	1511.6	1486.9	1464.4	1482.8	1552.6	1638.7	1667.4	1751.5	1860.2	1936.1
22.5°	1716.7	1726.9	1669.5	1620.3	1591.5	1630.5	1708.5	1739.2	1833.6	1950.5	2026.3
25°	1964.8	1975.1	1897.1	1827.4	1774.1	1767.9	1819.2	1852.0	1930.0	2051.0	2114.5
27.5°	2204.8	2186.3	2114.5	2048.9	1981.2	1925.9	1964.8	1993.5	2083.8	2176.1	2215.0
30°	2393.5	2379.1	2309.4	2262.2	2198.6	2126.8	2104.3	2135.1	2208.9	2295.0	2315.5
32.5°	2602.7	2592.4	2522.7	2461.2	2407.8	2340.1	2290.9	2305.3	2346.3	2407.8	2420.1
35°	2869.3	2891.9	2818.0	2692.9	2633.4	2567.8	2532.9	2537.0	2567.8	2606.8	2586.3
37.5°	3150.3	3176.9	3181.0	2984.1	2904.2	2844.7	2807.8	2822.1	2859.0	2885.7	2822.1
40°	3671.2	3644.6	3537.9	3392.3	3269.2	3211.8	3160.5	3158.5	3185.1	3232.3	3117.5
42.5°	4362.4	4337.8	4122.4	3933.7	3738.9	3673.3	3572.8	3529.7	3542.0	3601.5	3441.5
45°	5024.9	5014.6	4842.3	4622.9	4389.1	4261.9	4032.2	3927.6	3917.3	3964.5	3773.8
47.5°	5613.5	5568.4	5443.3	5273.0	5248.4	4916.2	4493.7	4352.1	4302.9	4329.6	4116.3
50°	6243.1	6089.3	5917.0	5812.4	5990.9	5681.2	4959.2	4811.6	4690.5	4709.0	4487.5
52.5°	6577.4	6319.0	6206.2	6237.0	6476.9	6358.0	5465.8	5285.3	5090.5	5117.1	4856.7
55°	6290.3	6288.2	6337.5	6528.2	6862.5	6725.1	5947.8	5744.7	5531.4	5537.6	5281.2
57.5°	5896.5	5976.5	6230.8	6651.3	7340.4	7110.7	6421.6	6206.2	6011.4	5980.6	5763.2
60°	5537.6	5625.8	5995.0	6630.8	7506.5	7463.4	6872.8	6684.1	6526.2	6435.9	6269.8
62.5°	4992.0	5057.7	5580.7	6499.5	7367.1	7717.8	7330.1	7200.9	7082.0	6895.3	6815.3
65°	4350.1	4372.6	4924.4	6066.7	7192.7	7816.2	7785.4	7728.0	7613.2	7338.3	7354.7
67.5°	3654.8	3699.9	4184.0	5375.6	6811.2	7771.1	8138.2	8185.4	8050.0	7637.8	7699.3
70°	2914.4	2969.8	3336.9	4419.8	6163.1	7576.2	8464.3	8540.2	8279.7	7736.2	7762.9
72.5°	1802.8	1856.1	2102.2	3070.3	4885.4	6922.0	8564.8	8663.3	8285.9	7605.0	7348.6
75°	623.5	629.6	822.4	1472.6	2900.1	5225.8	8236.7	8468.4	8025.4	7127.1	6394.9
77.5°	285.1	295.3	365.1	607.1	1286.0	2820.1	6801.0	7381.4	7233.7	6380.5	4922.3
80°	196.9	201.0	252.3	363.0	742.4	992.7	4292.7	5049.5	5307.9	4940.8	3154.4
82.5°	147.7	151.8	194.8	246.1	535.3	482.0	1634.6	2346.3	2916.5	2863.1	1318.8
85°	141.5	139.5	151.8	164.1	356.9	287.1	529.1	726.0	1138.3	974.2	332.3
87.5°	61.5	67.7	155.9	92.3	186.6	133.3	229.7	268.7	346.6	301.5	119.0
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°	1638.7	1638.7	1638.7	1638.7	1638.7	1638.7	1638.7	1638.7	1638.7	1638.7	1638.7
2.5°	1626.4	1630.5	1642.8	1661.3	1671.5	1692.0	1706.4	1714.6	1720.8	1722.8	1722.8
5°	1612.1	1620.3	1646.9	1677.7	1706.4	1749.5	1788.4	1811.0	1827.4	1833.6	1835.6
7.5°	1616.2	1636.7	1675.6	1720.8	1757.7	1813.0	1860.2	1905.3	1942.3	1956.6	1956.6
10°	1655.1	1683.8	1737.2	1796.6	1843.8	1901.2	1950.5	1989.4	2032.5	2057.1	2061.2
12.5°	1714.6	1749.5	1819.2	1884.8	1938.2	1983.3	2028.4	2057.1	2077.6	2096.1	2100.2
15°	1798.7	1841.8	1911.5	1979.2	2026.3	2055.1	2067.4	2067.4	2065.3	2067.4	2071.5
17.5°	1882.8	1923.8	1993.5	2061.2	2083.8	2067.4	2053.0	2048.9	2046.9	2042.8	2044.8
20°	1964.8	2003.8	2063.3	2114.5	2096.1	2038.7	2020.2	2018.1	2012.0	2007.9	2003.8
22.5°	2046.9	2075.6	2124.8	2143.3	2069.4	1987.4	1964.8	1952.5	1944.3	1934.1	1923.8
25°	2141.2	2149.4	2186.3	2157.6	2003.8	1893.0	1860.2	1841.8	1833.6	1823.3	1815.1
27.5°	2229.4	2229.4	2235.5	2135.1	1907.4	1767.9	1718.7	1685.9	1683.8	1681.8	1679.7
30°	2309.4	2299.1	2278.6	2067.4	1782.3	1614.1	1540.3	1507.5	1519.8	1530.0	1532.1
32.5°	2403.7	2383.2	2325.8	1975.1	1632.6	1441.8	1351.6	1337.2	1351.6	1363.9	1355.7
35°	2551.4	2514.5	2375.0	1868.4	1489.0	1283.9	1197.8	1177.3	1173.1	1171.1	1154.7
37.5°	2762.6	2699.1	2414.0	1753.6	1347.5	1144.4	1080.9	1037.8	998.8	957.8	951.6
40°	3021.1	2912.4	2440.6	1622.3	1197.8	1027.5	959.8	904.5	838.8	767.1	758.9
42.5°	3304.1	3142.1	2452.9	1476.7	1066.5	931.1	847.0	777.3	703.5	648.1	637.8
45°	3609.7	3390.2	2442.7	1337.2	959.8	849.1	754.8	678.9	619.4	580.4	572.2
47.5°	3907.1	3675.3	2414.0	1226.5	877.8	779.4	683.0	613.2	568.1	525.0	514.8
50°	4288.6	3948.1	2379.1	1140.3	787.6	709.6	637.8	564.0	512.7	492.2	488.1
52.5°	4711.1	4220.9	2338.1	1031.6	699.4	654.3	609.1	543.5	527.1	488.1	482.0
55°	5168.4	4544.9	2329.9	894.2	621.4	615.3	580.4	562.0	566.1	488.1	477.9
57.5°	5650.4	4891.5	2348.4	756.8	557.9	580.4	592.7	578.4	572.2	498.4	477.9
60°	6152.9	5225.8	2293.0	629.6	508.6	551.7	607.1	570.2	525.0	494.3	479.9
62.5°	6641.0	5506.8	2053.0	539.4	471.7	543.5	598.9	539.4	488.1	488.1	482.0
65°	6995.8	5631.9	1605.9	473.8	447.1	533.2	584.5	518.9	477.9	492.2	484.0
67.5°	7036.8	5502.7	1078.8	422.5	426.6	514.8	551.7	500.4	467.6	504.5	492.2
70°	6784.6	5166.4	660.4	383.5	399.9	482.0	523.0	482.0	453.3	494.3	475.8
72.5°	6130.3	4538.8	465.6	350.7	371.2	451.2	496.3	465.6	432.8	447.1	428.7
75°	5029.0	3517.4	369.2	319.9	342.5	422.5	473.8	441.0	408.1	402.0	389.7
77.5°	3562.5	2254.0	297.4	295.3	311.7	387.6	443.0	412.2	379.4	367.1	358.9
80°	2048.9	1105.5	256.4	266.6	283.0	352.8	406.1	379.4	348.7	330.2	317.9
82.5°	783.5	385.6	225.6	231.8	250.2	315.8	369.2	346.6	315.8	332.3	278.9
85°	254.3	211.2	184.6	190.7	209.2	262.5	326.1	307.6	272.8	242.0	223.6
87.5°	112.8	114.9	98.4	108.7	131.3	174.3	237.9	225.6	198.9	166.1	160.0
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)