

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: P399386

Luminaire Tested: **ARCH-L-PA3-130-827-U-T3**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399386
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-PA3-130-827-U-T3
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 80 CRI, 2700K, 575mA LIGHT ENGINES WITH 24 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15530 lumens
Efficiency: N/A
Efficacy: 116.8 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

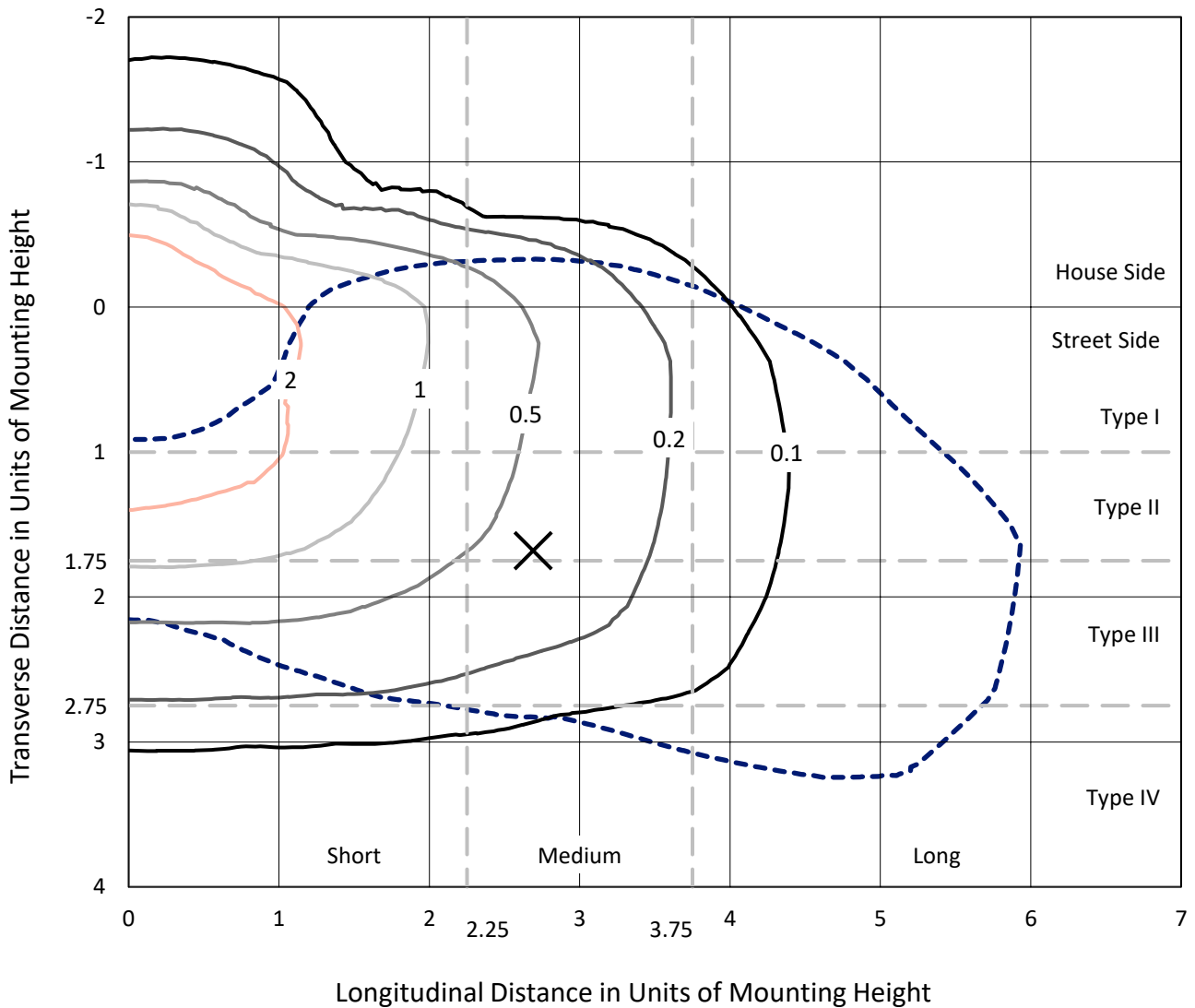
Input Watts (W): 133
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

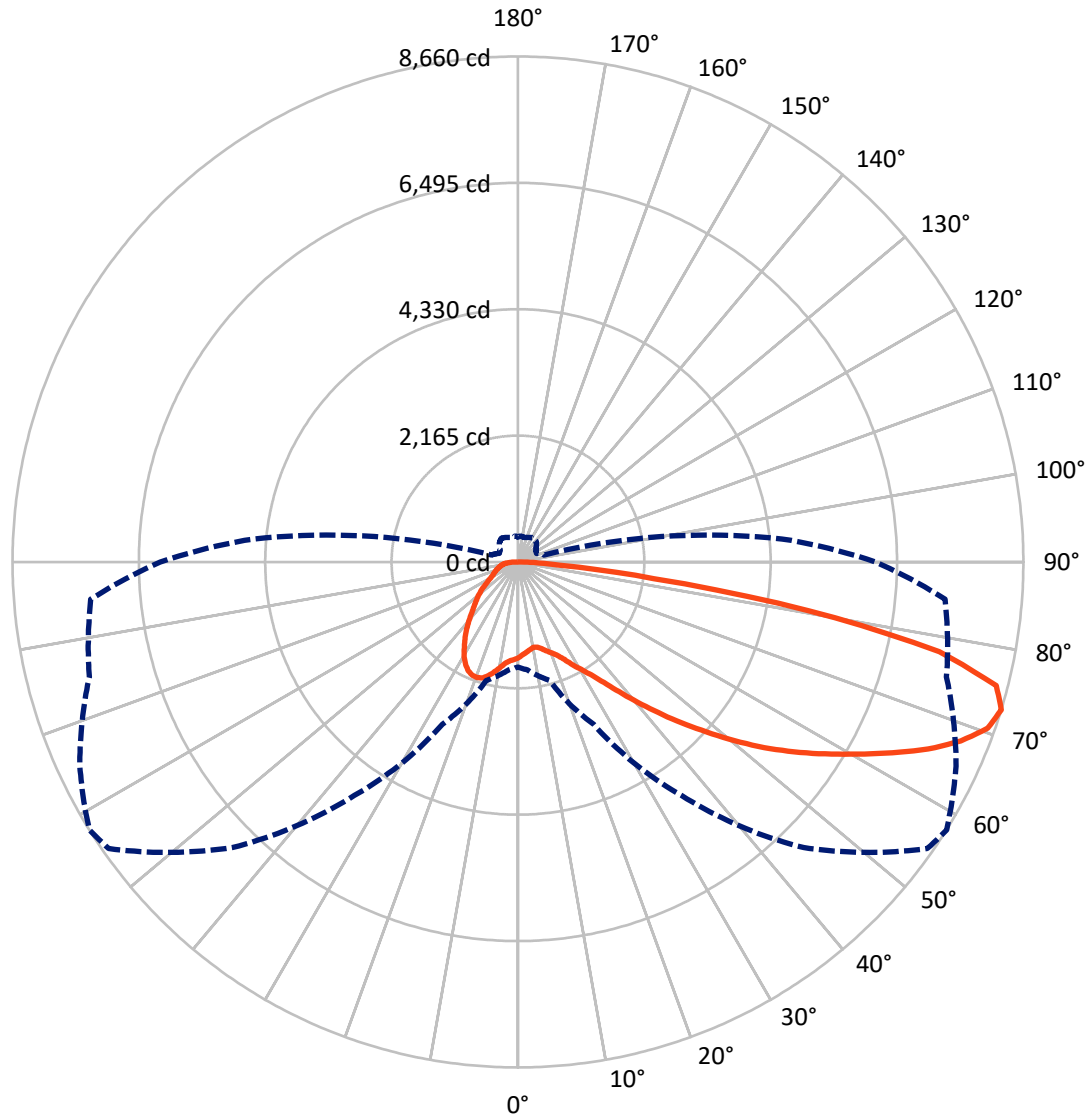
× Max cd
 - - - 1/2 Max cd



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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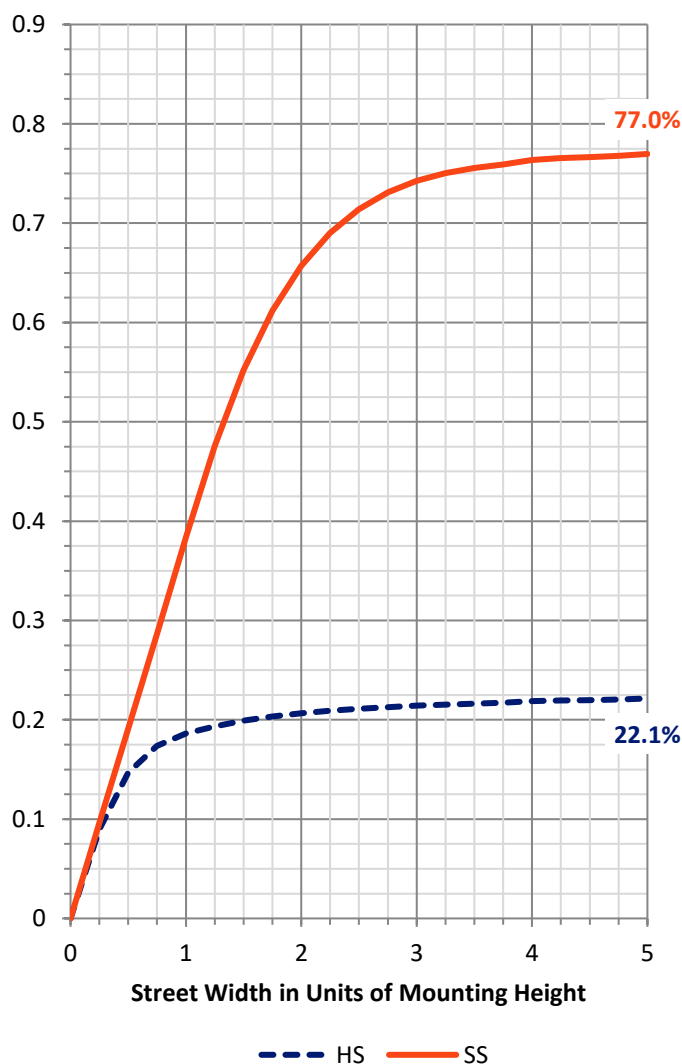
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3522.0	0.0	3522.0
	% Fixture	22.7	0.0	22.7
Street Side	Lumens	12008.0	0.0	12008.0
	% Fixture	77.3	0.0	77.3
Total	Lumens	15530.0	0.0	15530.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	157.8	1.0
10°-20°	501.1	3.2
20°-30°	897.7	5.8
30°-40°	1350.4	8.7
40°-50°	2186.7	14.1
50°-60°	3291.7	21.2
60°-70°	3874.0	24.9
70°-80°	2747.0	17.7
80°-90°	523.4	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°	15530.0	100.0
0°-180°	15530.0	100.0

Coefficient of Utilization

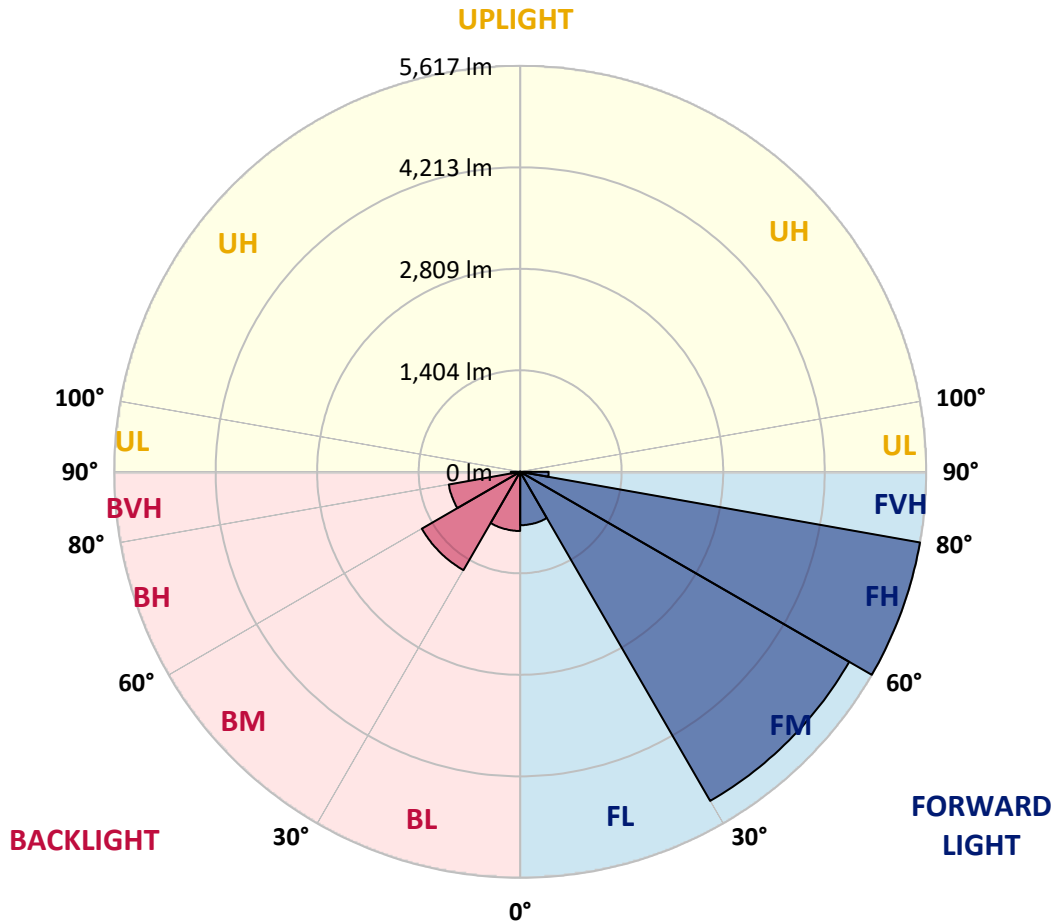


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	738.5	4.8			
FM (30°-60°)	5257.4	33.9			
FH (60°-80°)	5617.3	36.2			G3/7500
FVH (80°-90°)	394.8	2.5			G3/500
BL (0°-30°)	818.1	5.3	B2/1000		
BM (30°-60°)	1571.5	10.1	B2/2500		
BH (60°-80°)	1003.8	6.5	B3/2500		G3/2500
BVH (80°-90°)	128.6	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°	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1
2.5°	1576.6	1568.4	1570.4	1570.4	1578.6	1582.7	1584.8	1590.9	1595.0	1605.3	1619.6
5°	1502.8	1496.6	1498.7	1500.7	1515.1	1529.4	1541.7	1549.9	1562.2	1578.6	1599.1
7.5°	1449.5	1445.4	1447.4	1451.5	1463.8	1480.2	1500.7	1513.0	1531.5	1562.2	1597.1
10°	1410.5	1410.5	1412.6	1420.8	1433.1	1453.6	1470.0	1484.3	1521.2	1576.6	1629.9
12.5°	1379.8	1379.8	1385.9	1402.3	1422.8	1443.3	1482.3	1498.7	1547.9	1623.7	1687.3
15°	1377.7	1379.8	1381.8	1396.2	1418.7	1463.8	1521.2	1545.8	1605.3	1695.5	1769.3
17.5°	1410.5	1412.6	1404.4	1408.5	1435.1	1498.7	1574.5	1603.2	1679.1	1777.5	1853.4
20°	1511.0	1511.0	1486.4	1463.8	1482.3	1552.0	1638.1	1666.8	1750.8	1859.5	1935.4
22.5°	1716.0	1726.2	1668.8	1619.6	1590.9	1629.9	1707.8	1738.5	1832.9	1949.7	2025.6
25°	1964.1	1974.3	1896.4	1826.7	1773.4	1767.2	1818.5	1851.3	1929.2	2050.2	2113.7
27.5°	2203.9	2185.5	2113.7	2048.1	1980.5	1925.1	1964.1	1992.8	2083.0	2175.2	2214.2
30°	2392.5	2378.2	2308.5	2261.3	2197.8	2126.0	2103.5	2134.2	2208.0	2294.1	2314.6
32.5°	2601.7	2591.4	2521.7	2460.2	2406.9	2339.2	2290.0	2304.4	2345.4	2406.9	2419.2
35°	2868.2	2890.7	2816.9	2691.9	2632.4	2566.8	2532.0	2536.1	2566.8	2605.8	2585.3
37.5°	3149.1	3175.7	3179.8	2983.0	2903.0	2843.6	2806.7	2821.0	2857.9	2884.6	2821.0
40°	3669.8	3643.1	3536.5	3391.0	3268.0	3210.6	3159.3	3157.3	3183.9	3231.1	3116.3
42.5°	4360.7	4336.1	4120.8	3932.2	3737.5	3671.9	3571.4	3528.3	3540.6	3600.1	3440.2
45°	5022.9	5012.7	4840.4	4621.1	4387.4	4260.3	4030.6	3926.1	3915.8	3963.0	3772.3
47.5°	5611.3	5566.2	5441.1	5271.0	5246.4	4914.3	4491.9	4350.5	4301.3	4327.9	4114.7
50°	6240.7	6087.0	5914.7	5810.2	5988.5	5679.0	4957.3	4809.7	4688.7	4707.2	4485.8
52.5°	6574.9	6316.6	6203.8	6234.6	6474.4	6355.5	5463.7	5283.3	5088.5	5115.2	4854.8
55°	6287.9	6285.8	6335.0	6525.7	6859.9	6722.5	5945.5	5742.5	5529.3	5535.5	5279.2
57.5°	5894.2	5974.2	6228.4	6648.7	7337.6	7107.9	6419.1	6203.8	6009.0	5978.3	5761.0
60°	5535.5	5623.6	5992.6	6628.2	7503.6	7460.6	6870.1	6681.5	6523.6	6433.4	6267.4
62.5°	4990.1	5055.7	5578.5	6497.0	7364.2	7714.8	7327.3	7198.1	7079.2	6892.7	6812.7
65°	4348.4	4371.0	4922.5	6064.4	7189.9	7813.2	7782.4	7725.0	7610.2	7335.5	7351.9
67.5°	3653.4	3698.5	4182.3	5373.5	6808.6	7768.1	8135.1	8182.2	8046.9	7634.8	7696.3
70°	2913.3	2968.6	3335.6	4418.1	6160.8	7573.3	8461.0	8536.9	8276.5	7733.2	7759.9
72.5°	1802.1	1855.4	2101.4	3069.1	4883.5	6919.3	8561.5	8659.9	8282.7	7602.0	7345.8
75°	623.3	629.4	822.1	1472.0	2898.9	5223.8	8233.5	8465.1	8022.3	7124.3	6392.4
77.5°	285.0	295.2	364.9	606.8	1285.5	2819.0	6798.4	7378.6	7230.9	6378.1	4920.4
80°	196.8	200.9	252.2	362.9	742.2	992.3	4291.0	5047.5	5305.8	4938.9	3153.2
82.5°	147.6	151.7	194.8	246.0	535.1	481.8	1634.0	2345.4	2915.3	2862.0	1318.3
85°	141.5	139.4	151.7	164.0	356.7	287.0	528.9	725.8	1137.8	973.8	332.1
87.5°	61.5	67.7	155.8	92.3	186.6	133.3	229.6	268.6	346.5	301.4	118.9
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°	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1
2.5°	1625.8	1629.9	1642.2	1660.6	1670.9	1691.4	1705.7	1713.9	1720.1	1722.1	1722.1
5°	1611.4	1619.6	1646.3	1677.0	1705.7	1748.8	1787.7	1810.3	1826.7	1832.9	1834.9
7.5°	1615.5	1636.0	1675.0	1720.1	1757.0	1812.3	1859.5	1904.6	1941.5	1955.9	1955.9
10°	1654.5	1683.2	1736.5	1795.9	1843.1	1900.5	1949.7	1988.7	2031.7	2056.3	2060.4
12.5°	1713.9	1748.8	1818.5	1884.1	1937.4	1982.5	2027.6	2056.3	2076.8	2095.3	2099.4
15°	1798.0	1841.1	1910.8	1978.4	2025.6	2054.3	2066.6	2066.6	2064.5	2066.6	2070.7
17.5°	1882.1	1923.1	1992.8	2060.4	2083.0	2066.6	2052.2	2048.1	2046.1	2042.0	2044.0
20°	1964.1	2003.0	2062.5	2113.7	2095.3	2037.9	2019.4	2017.4	2011.2	2007.1	2003.0
22.5°	2046.1	2074.8	2124.0	2142.4	2068.6	1986.6	1964.1	1951.8	1943.6	1933.3	1923.1
25°	2140.4	2148.6	2185.5	2156.8	2003.0	1892.3	1859.5	1841.1	1832.9	1822.6	1814.4
27.5°	2228.5	2228.5	2234.7	2134.2	1906.7	1767.2	1718.0	1685.2	1683.2	1681.1	1679.1
30°	2308.5	2298.2	2277.7	2066.6	1781.6	1613.5	1539.7	1506.9	1519.2	1529.4	1531.5
32.5°	2402.8	2382.3	2324.9	1974.3	1631.9	1441.3	1351.1	1336.7	1351.1	1363.4	1355.2
35°	2550.4	2513.5	2374.1	1867.7	1488.4	1283.4	1197.3	1176.8	1172.7	1170.6	1154.2
37.5°	2761.6	2698.0	2413.0	1752.9	1347.0	1144.0	1080.4	1037.4	998.4	957.4	951.3
40°	3019.9	2911.2	2439.7	1621.7	1197.3	1027.1	959.5	904.1	838.5	766.8	758.6
42.5°	3302.8	3140.9	2452.0	1476.1	1066.1	930.8	846.7	777.0	703.2	647.9	637.6
45°	3608.3	3388.9	2441.8	1336.7	959.5	848.8	754.5	678.6	619.2	580.2	572.0
47.5°	3905.6	3673.9	2413.0	1226.0	877.5	779.1	682.7	613.0	567.9	524.8	514.6
50°	4286.9	3946.6	2378.2	1139.9	787.3	709.4	637.6	563.8	512.5	492.0	487.9
52.5°	4709.2	4219.2	2337.2	1031.2	699.1	654.0	608.9	543.3	526.9	487.9	481.8
55°	5166.4	4543.2	2329.0	893.9	621.2	615.1	580.2	561.7	565.8	487.9	477.7
57.5°	5648.2	4889.7	2347.4	756.5	557.6	580.2	592.5	578.1	572.0	498.2	477.7
60°	6150.5	5223.8	2292.1	629.4	508.4	551.5	606.8	569.9	524.8	494.1	479.7
62.5°	6638.4	5504.7	2052.2	539.2	471.5	543.3	598.6	539.2	487.9	487.9	481.8
65°	6993.1	5629.8	1605.3	473.6	446.9	533.0	584.3	518.7	477.7	492.0	483.8
67.5°	7034.1	5500.6	1078.4	422.3	426.4	514.6	551.5	500.2	467.4	504.3	492.0
70°	6782.0	5164.4	660.2	383.4	399.8	481.8	522.8	481.8	453.1	494.1	475.6
72.5°	6128.0	4537.0	465.4	350.6	371.1	451.0	496.1	465.4	432.6	446.9	428.5
75°	5027.0	3516.0	369.0	319.8	342.4	422.3	473.6	440.8	408.0	401.8	389.5
77.5°	3561.1	2253.1	297.3	295.2	311.6	387.5	442.8	412.1	379.3	367.0	358.8
80°	2048.1	1105.0	256.3	266.5	282.9	352.6	405.9	379.3	348.5	330.1	317.8
82.5°	783.2	385.4	225.5	231.7	250.1	315.7	369.0	346.5	315.7	332.1	278.8
85°	254.2	211.2	184.5	190.7	209.1	262.4	326.0	307.5	272.7	241.9	223.5
87.5°	112.8	114.8	98.4	108.7	131.2	174.3	237.8	225.5	198.9	166.1	159.9
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)