

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: P399242

Luminaire Tested: **ARCH-L-PA3-110-827-U-T3**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399242
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-PA3-110-827-U-T3
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 80 CRI, 2700K, 485mA LIGHT ENGINES WITH 24 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13443 lumens
Efficiency: N/A
Efficacy: 119.0 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G3

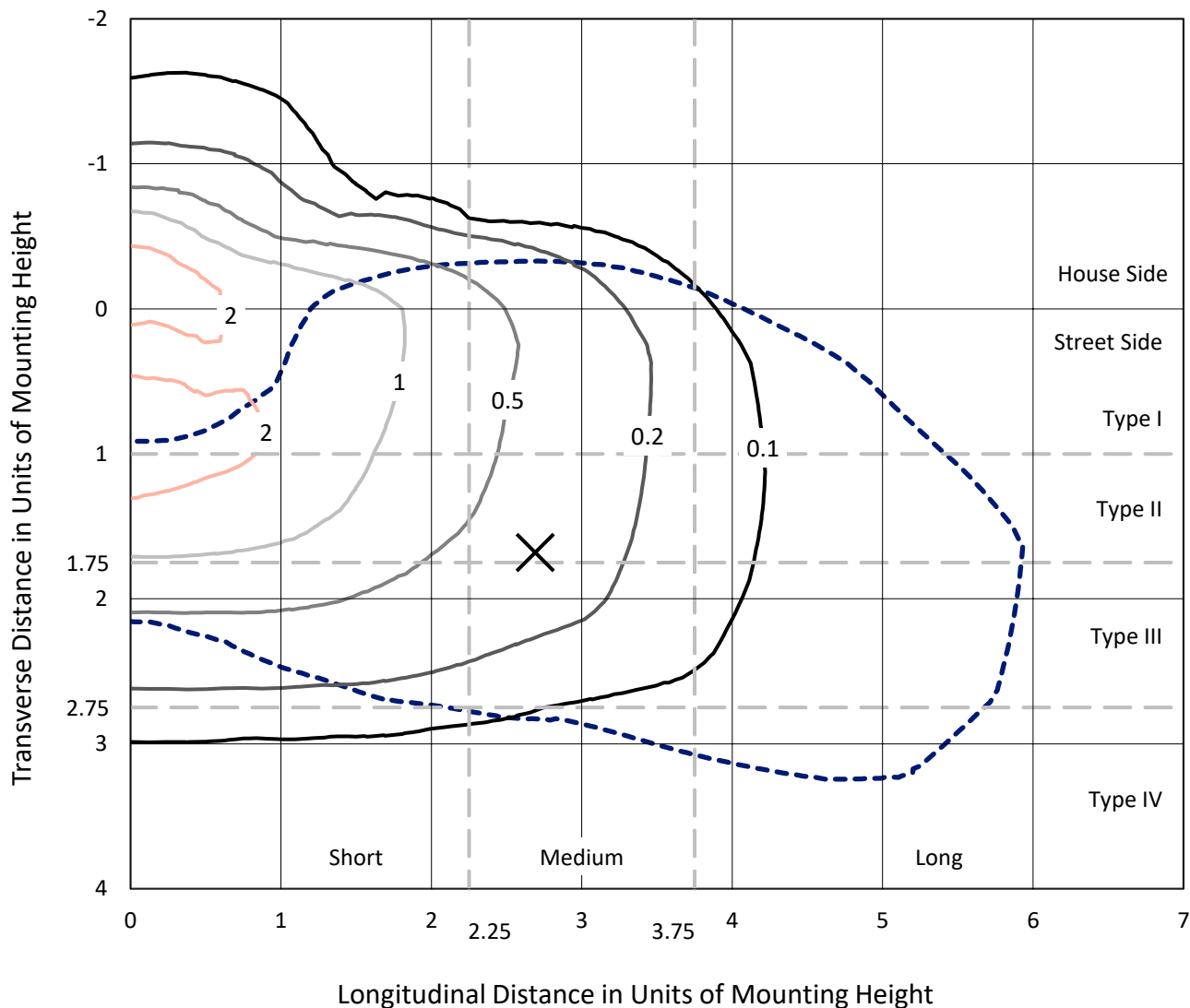
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

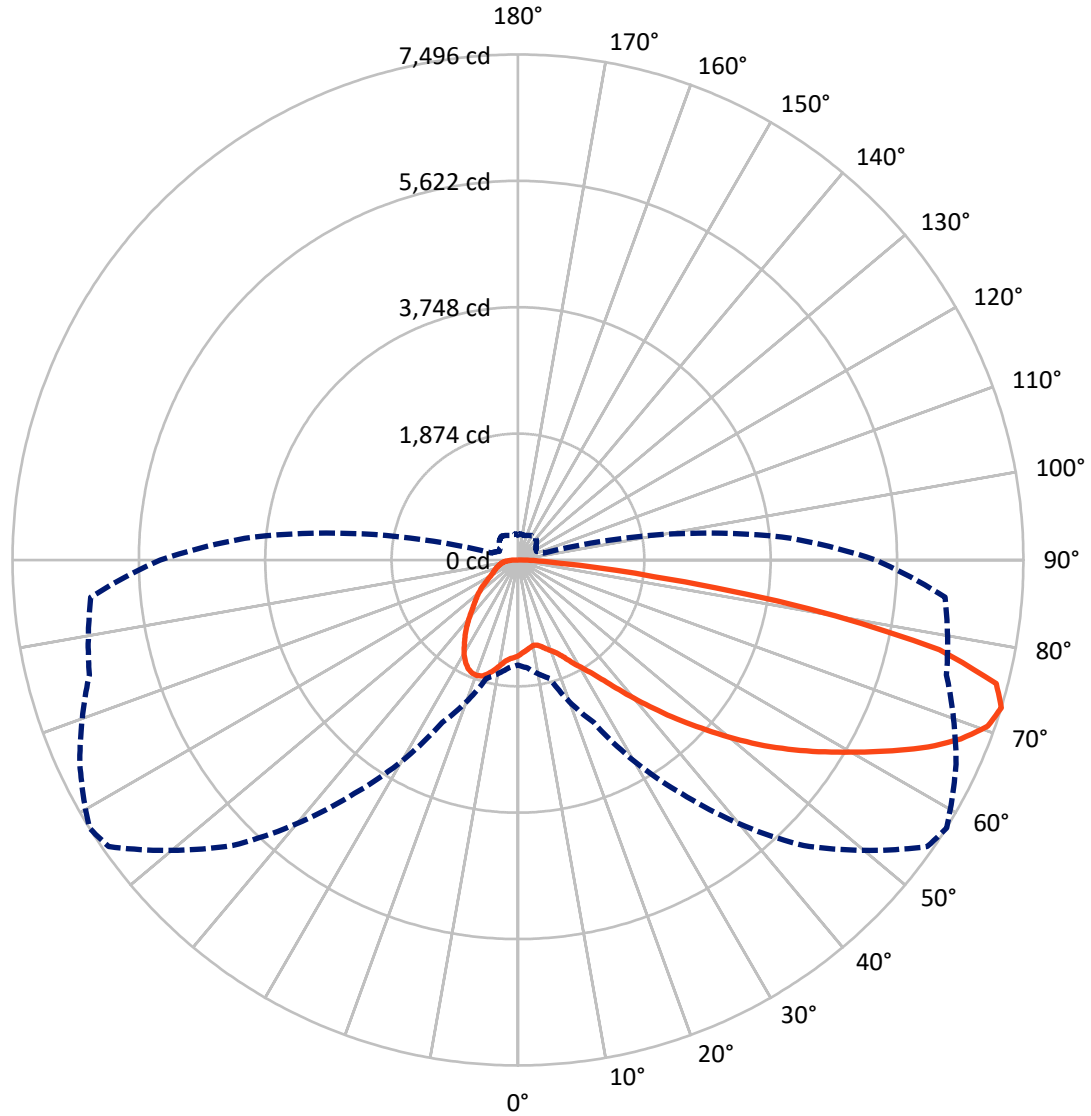
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 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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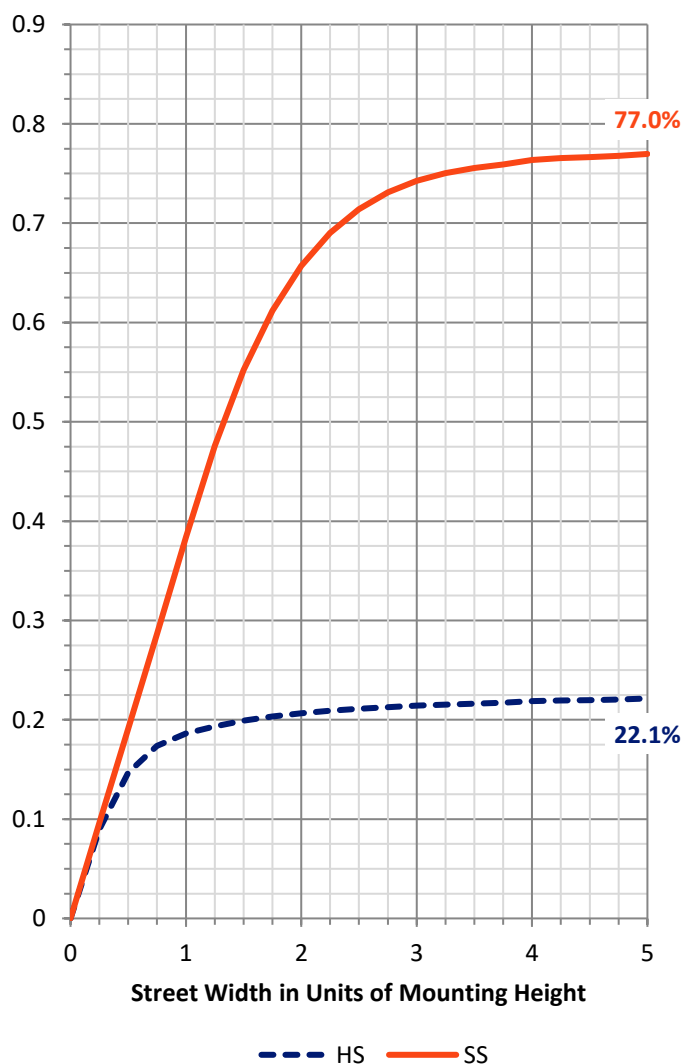
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3048.7	0.0	3048.7
	% Fixture	22.7	0.0	22.7
Street Side	Lumens	10394.3	0.0	10394.3
	% Fixture	77.3	0.0	77.3
Total	Lumens	13443.0	0.0	13443.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.6	1.0
10°-20°	433.8	3.2
20°-30°	777.1	5.8
30°-40°	1168.9	8.7
40°-50°	1892.9	14.1
50°-60°	2849.4	21.2
60°-70°	3353.4	24.9
70°-80°	2377.9	17.7
80°-90°	453.1	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°	13443.0	100.0
0°-180°	13443.0	100.0

Coefficient of Utilization



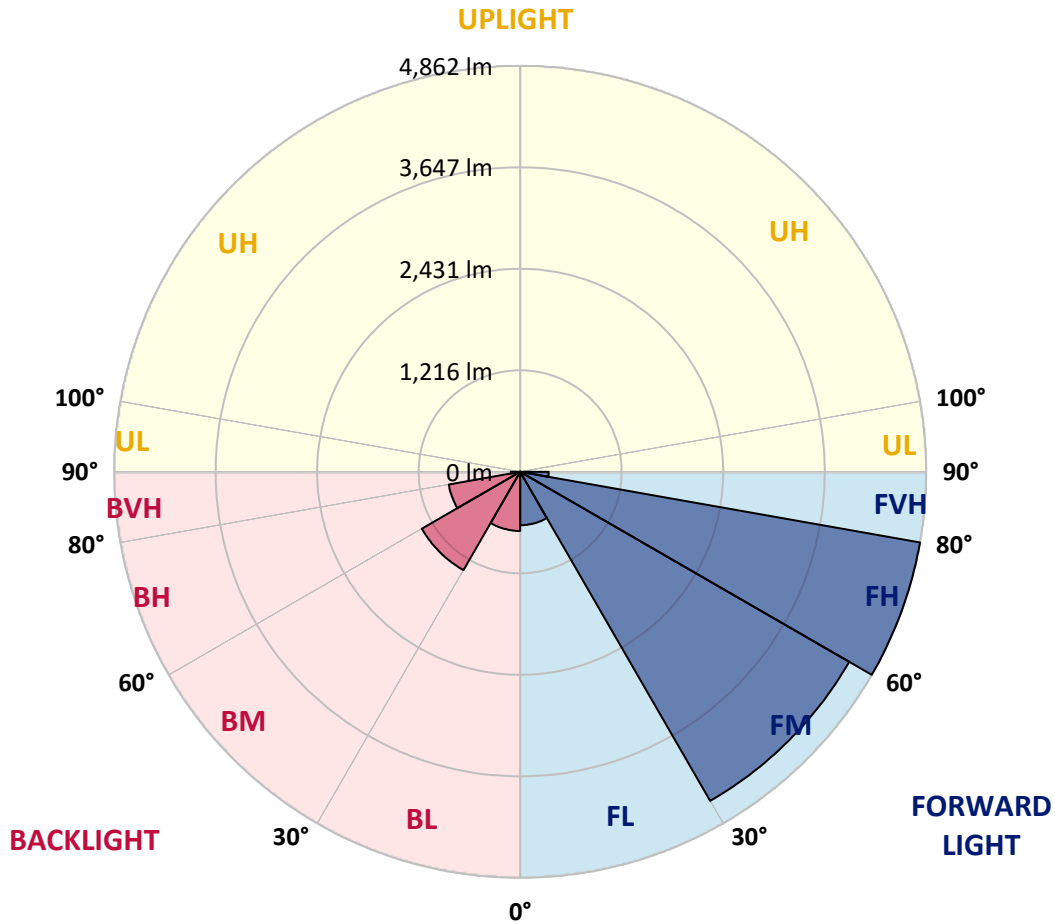
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	639.3	4.8			
FM (30°-60°)	4550.8	33.9			
FH (60°-80°)	4862.4	36.2			G2/5000
FVH (80°-90°)	341.8	2.5			G3/500
BL (0°-30°)	708.2	5.3	B2/1000		
BM (30°-60°)	1360.3	10.1	B2/2500		
BH (60°-80°)	868.9	6.5	B2/1000		G2/1000
BVH (80°-90°)	111.3	0.8			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1418.0	1418.0	1418.0	1418.0	1418.0	1418.0	1418.0	1418.0	1418.0	1418.0	1418.0
2.5°	1364.7	1357.6	1359.4	1359.4	1366.5	1370.0	1371.8	1377.1	1380.7	1389.6	1402.0
5°	1300.8	1295.5	1297.3	1299.0	1311.5	1323.9	1334.5	1341.6	1352.3	1366.5	1384.2
7.5°	1254.7	1251.1	1252.9	1256.5	1267.1	1281.3	1299.0	1309.7	1325.7	1352.3	1382.5
10°	1221.0	1221.0	1222.7	1229.8	1240.5	1258.2	1272.4	1284.9	1316.8	1364.7	1410.9
12.5°	1194.3	1194.3	1199.7	1213.9	1231.6	1249.4	1283.1	1297.3	1339.9	1405.5	1460.5
15°	1192.6	1194.3	1196.1	1208.5	1228.1	1267.1	1316.8	1338.1	1389.6	1467.6	1531.5
17.5°	1221.0	1222.7	1215.6	1219.2	1242.3	1297.3	1362.9	1387.8	1453.4	1538.6	1604.3
20°	1307.9	1307.9	1286.6	1267.1	1283.1	1343.4	1418.0	1442.8	1515.6	1609.6	1675.3
22.5°	1485.4	1494.3	1444.6	1402.0	1377.1	1410.9	1478.3	1504.9	1586.5	1687.7	1753.4
25°	1700.1	1709.0	1641.6	1581.2	1535.1	1529.8	1574.1	1602.5	1670.0	1774.7	1829.7
27.5°	1907.8	1891.8	1829.7	1772.9	1714.3	1666.4	1700.1	1725.0	1803.1	1882.9	1916.6
30°	2071.0	2058.6	1998.3	1957.4	1902.4	1840.3	1820.8	1847.4	1911.3	1985.8	2003.6
32.5°	2252.0	2243.2	2182.8	2129.6	2083.4	2024.9	1982.3	1994.7	2030.2	2083.4	2094.1
35°	2482.7	2502.3	2438.4	2330.1	2278.7	2221.9	2191.7	2195.3	2221.9	2255.6	2237.8
37.5°	2725.9	2748.9	2752.5	2582.1	2512.9	2461.4	2429.5	2441.9	2473.9	2496.9	2441.9
40°	3176.6	3153.6	3061.3	2935.3	2828.8	2779.1	2734.7	2733.0	2756.0	2796.9	2697.5
42.5°	3774.7	3753.4	3567.1	3403.8	3235.2	3178.4	3091.5	3054.2	3064.8	3116.3	2977.9
45°	4347.9	4339.0	4190.0	4000.1	3797.8	3687.7	3489.0	3398.5	3389.6	3430.4	3265.4
47.5°	4857.2	4818.2	4709.9	4562.6	4541.3	4253.9	3888.3	3765.8	3723.2	3746.3	3561.7
50°	5402.1	5269.0	5119.9	5029.4	5183.8	4915.8	4291.1	4163.3	4058.6	4074.6	3882.9
52.5°	5691.3	5467.7	5370.1	5396.7	5604.4	5501.4	4729.5	4573.3	4404.7	4427.8	4202.4
55°	5442.9	5441.1	5483.7	5648.7	5938.0	5819.1	5146.5	4970.8	4786.2	4791.6	4569.7
57.5°	5102.1	5171.3	5391.4	5755.2	6351.5	6152.7	5556.5	5370.1	5201.5	5174.9	4986.8
60°	4791.6	4867.9	5187.3	5737.5	6495.2	6458.0	5946.9	5783.6	5647.0	5568.9	5425.1
62.5°	4319.5	4376.3	4828.8	5623.9	6374.6	6678.0	6342.6	6230.8	6127.9	5966.4	5897.2
65°	3764.0	3783.6	4261.0	5249.4	6223.7	6763.2	6736.6	6686.9	6587.5	6349.7	6363.9
67.5°	3162.4	3201.5	3620.3	4651.4	5893.6	6724.2	7041.8	7082.7	6965.5	6608.8	6662.1
70°	2521.8	2569.7	2887.4	3824.4	5332.8	6555.6	7324.0	7389.7	7164.3	6694.0	6717.1
72.5°	1559.9	1606.1	1819.0	2656.7	4227.2	5989.5	7411.0	7496.1	7169.6	6580.4	6358.6
75°	539.5	544.8	711.6	1274.2	2509.4	4521.8	7127.0	7327.6	6944.2	6166.9	5533.4
77.5°	246.7	255.6	315.9	525.3	1112.7	2440.2	5884.8	6387.0	6259.2	5521.0	4259.2
80°	170.4	173.9	218.3	314.1	642.4	858.9	3714.4	4369.2	4592.8	4275.1	2729.4
82.5°	127.8	131.3	168.6	213.0	463.2	417.0	1414.4	2030.2	2523.6	2477.4	1141.1
85°	122.5	120.7	131.3	142.0	308.8	248.5	457.9	628.2	984.9	843.0	287.5
87.5°	53.2	58.6	134.9	79.9	161.5	115.4	198.8	232.5	299.9	260.9	102.9
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°	1418.0	1418.0	1418.0	1418.0	1418.0	1418.0	1418.0	1418.0	1418.0	1418.0	1418.0
2.5°	1407.3	1410.9	1421.5	1437.5	1446.3	1464.1	1476.5	1483.6	1488.9	1490.7	1490.7
5°	1394.9	1402.0	1425.0	1451.7	1476.5	1513.8	1547.5	1567.0	1581.2	1586.5	1588.3
7.5°	1398.4	1416.2	1449.9	1488.9	1520.9	1568.8	1609.6	1648.7	1680.6	1693.0	1693.0
10°	1432.1	1457.0	1503.1	1554.6	1595.4	1645.1	1687.7	1721.4	1758.7	1780.0	1783.5
12.5°	1483.6	1513.8	1574.1	1630.9	1677.1	1716.1	1755.1	1780.0	1797.7	1813.7	1817.2
15°	1556.4	1593.6	1654.0	1712.5	1753.4	1778.2	1788.9	1788.9	1787.1	1788.9	1792.4
17.5°	1629.1	1664.6	1725.0	1783.5	1803.1	1788.9	1776.4	1772.9	1771.1	1767.6	1769.3
20°	1700.1	1733.8	1785.3	1829.7	1813.7	1764.0	1748.0	1746.3	1740.9	1737.4	1733.8
22.5°	1771.1	1796.0	1838.5	1854.5	1790.6	1719.6	1700.1	1689.5	1682.4	1673.5	1664.6
25°	1852.7	1859.8	1891.8	1866.9	1733.8	1638.0	1609.6	1593.6	1586.5	1577.7	1570.6
27.5°	1929.1	1929.1	1934.4	1847.4	1650.4	1529.8	1487.2	1458.8	1457.0	1455.2	1453.4
30°	1998.3	1989.4	1971.6	1788.9	1542.2	1396.7	1332.8	1304.4	1315.0	1323.9	1325.7
32.5°	2079.9	2062.2	2012.5	1709.0	1412.6	1247.6	1169.5	1157.1	1169.5	1180.1	1173.0
35°	2207.7	2175.7	2055.1	1616.7	1288.4	1110.9	1036.4	1018.7	1015.1	1013.3	999.1
37.5°	2390.5	2335.4	2088.8	1517.3	1165.9	990.3	935.2	898.0	864.3	828.8	823.4
40°	2614.1	2520.0	2111.8	1403.8	1036.4	889.1	830.5	782.6	725.8	663.7	656.6
42.5°	2859.0	2718.8	2122.5	1277.8	922.8	805.7	732.9	672.6	608.7	560.8	551.9
45°	3123.4	2933.5	2113.6	1157.1	830.5	734.7	653.1	587.4	535.9	502.2	495.1
47.5°	3380.7	3180.2	2088.8	1061.2	759.6	674.4	591.0	530.6	491.6	454.3	445.4
50°	3710.8	3416.2	2058.6	986.7	681.5	614.0	551.9	488.0	443.7	425.9	422.4
52.5°	4076.4	3652.2	2023.1	892.7	605.2	566.1	527.1	470.3	456.1	422.4	417.0
55°	4472.1	3932.6	2016.0	773.8	537.7	532.4	502.2	486.3	489.8	422.4	413.5
57.5°	4889.2	4232.6	2032.0	654.8	482.7	502.2	512.9	500.5	495.1	431.2	413.5
60°	5324.0	4521.8	1984.1	544.8	440.1	477.4	525.3	493.4	454.3	427.7	415.3
62.5°	5746.3	4765.0	1776.4	466.7	408.2	470.3	518.2	466.7	422.4	422.4	417.0
65°	6053.4	4873.2	1389.6	409.9	386.9	461.4	505.8	449.0	413.5	425.9	418.8
67.5°	6088.8	4761.4	933.5	365.6	369.1	445.4	477.4	433.0	404.6	436.6	425.9
70°	5870.6	4470.4	571.4	331.9	346.1	417.0	452.5	417.0	392.2	427.7	411.7
72.5°	5304.4	3927.3	402.8	303.5	321.2	390.4	429.5	402.8	374.5	386.9	370.9
75°	4351.5	3043.5	319.4	276.8	296.4	365.6	409.9	381.6	353.2	347.8	337.2
77.5°	3082.6	1950.3	257.3	255.6	269.7	335.4	383.3	356.7	328.3	317.7	310.6
80°	1772.9	956.5	221.8	230.7	244.9	305.2	351.4	328.3	301.7	285.7	275.1
82.5°	677.9	333.6	195.2	200.5	216.5	273.3	319.4	299.9	273.3	287.5	241.4
85°	220.1	182.8	159.7	165.0	181.0	227.2	282.2	266.2	236.0	209.4	193.4
87.5°	97.6	99.4	85.2	94.1	113.6	150.8	205.9	195.2	172.1	143.7	138.4
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)