

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: P480023

Luminaire Tested: **IFLD-S-SA2A-730-U-SL2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480023
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2A-730-U-SL2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens
Light Source: (32) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

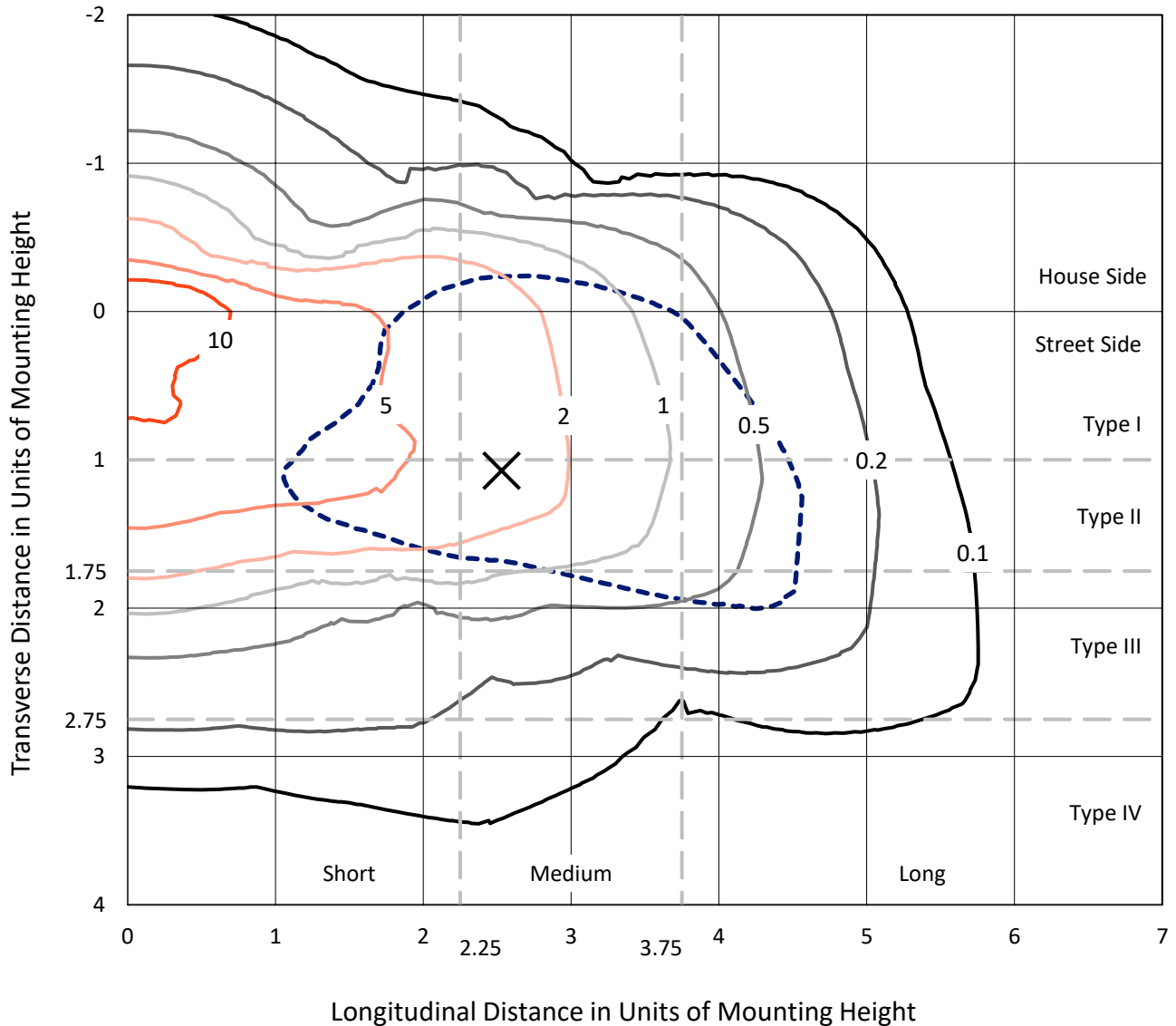
Lumens per Lamp: N/A
Luminaire Lumens: 8382.1 lumens
Efficiency: N/A
Efficacy: 131.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G2

Input Watts (W): 63.8
Input Voltage (V): 120
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

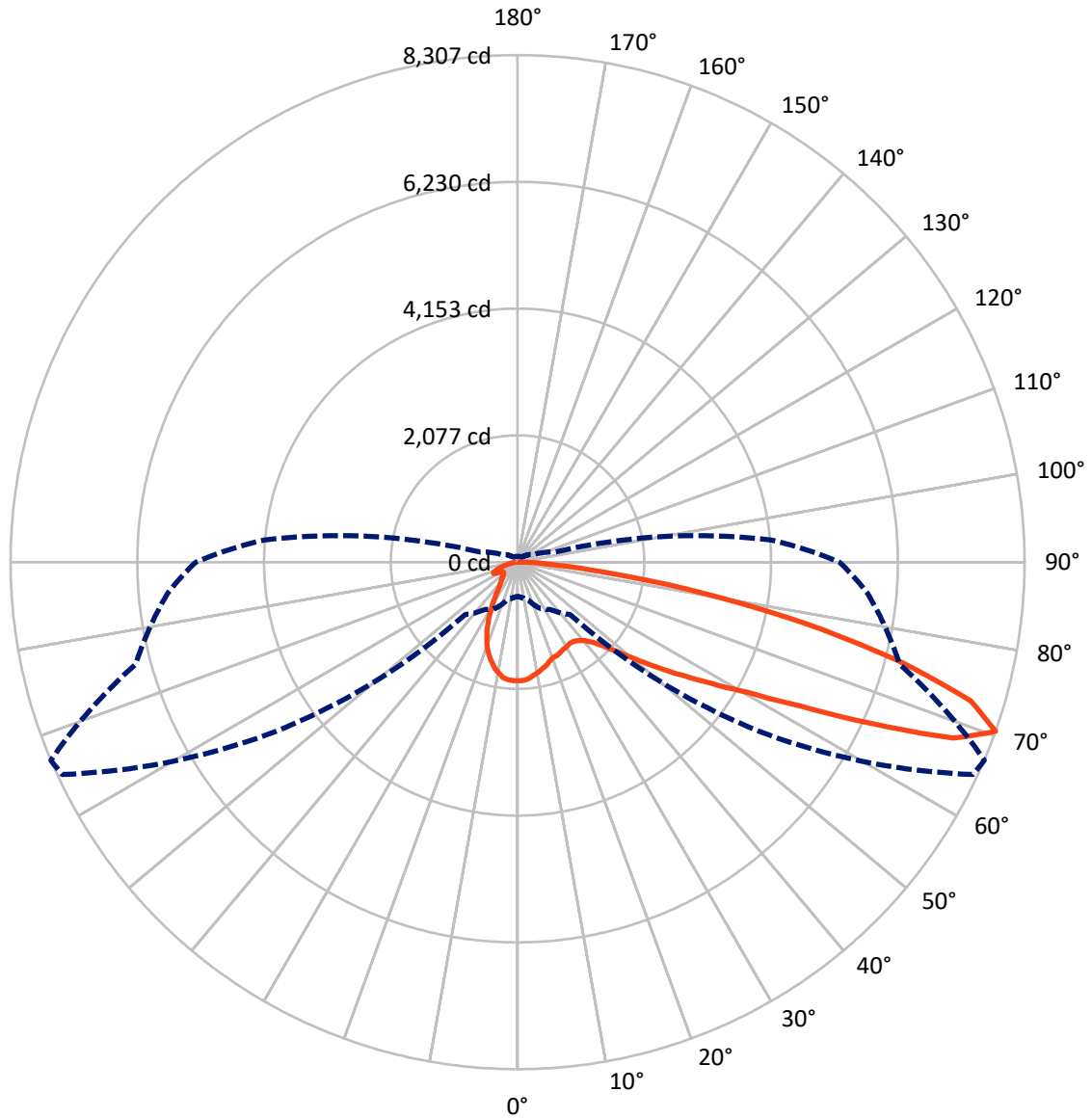
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 19.6 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1632.5	0.0	1632.5
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	6749.6	0.0	6749.6
	% Fixture	80.5	0.0	80.5
Total	Lumens	8382.1	0.0	8382.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	169.3	2.0
10°-20°	405.5	4.8
20°-30°	547.6	6.5
30°-40°	732.7	8.7
40°-50°	1077.4	12.9
50°-60°	1679.4	20.0
60°-70°	2068.8	24.7
70°-80°	1461.8	17.4
80°-90°	239.6	2.9
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°	8382.1	100.0
0°-180°	8382.1	100.0

Coefficient of Utilization

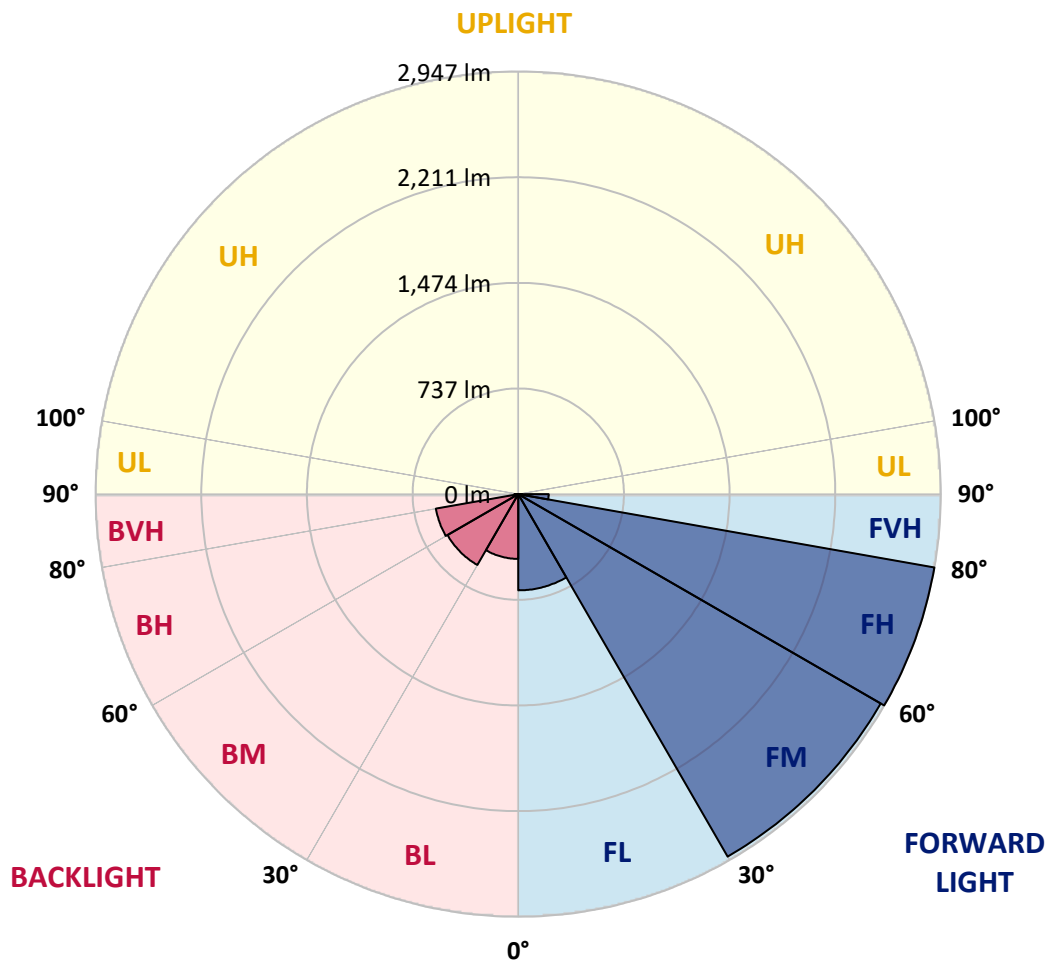


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	670.9	8.0			
FM (30°-60°)	2919.3	34.8			
FH (60°-80°)	2947.4	35.2			G2/5000
FVH (80°-90°)	212.0	2.5			G2/225
BL (0°-30°)	451.4	5.4	B1/500		
BM (30°-60°)	570.3	6.8	B1/1000		
BH (60°-80°)	583.1	7.0	B2/1000		G2/1000
BVH (80°-90°)	27.6	0.3			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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	1940.4	1940.4	1940.4	1940.4	1940.4	1940.4	1940.4	1940.4	1940.4	1940.4	1940.4
2.5°	1806.8	1827.2	1834.6	1845.8	1874.5	1895.9	1908.9	1923.7	1941.4	1956.2	1965.5
5°	1680.6	1691.7	1709.4	1721.4	1757.6	1815.2	1854.1	1917.2	1915.4	1938.6	1973.8
7.5°	1558.1	1569.2	1577.6	1601.7	1653.7	1705.7	1777.1	1879.2	1871.8	1925.6	1980.3
10°	1482.0	1473.7	1476.4	1517.3	1558.1	1616.6	1706.6	1810.5	1837.4	1920.9	1998.9
12.5°	1410.6	1401.3	1423.5	1449.5	1499.6	1552.5	1660.2	1753.9	1794.7	1904.2	2007.3
15°	1366.0	1359.5	1387.4	1398.5	1457.9	1521.0	1597.1	1711.2	1755.8	1883.8	1994.3
17.5°	1341.0	1346.5	1356.7	1380.9	1418.9	1472.7	1556.2	1682.5	1701.9	1858.8	1991.5
20°	1345.6	1352.1	1353.0	1363.2	1389.2	1431.0	1516.3	1651.8	1664.8	1854.1	1998.9
22.5°	1382.7	1373.4	1377.1	1370.6	1378.1	1410.6	1485.7	1611.0	1661.1	1815.2	1983.1
25°	1438.4	1425.4	1423.5	1401.3	1387.4	1396.6	1480.2	1600.8	1633.3	1803.1	1982.2
27.5°	1536.8	1517.3	1517.3	1483.9	1427.3	1412.4	1464.4	1584.1	1612.9	1792.0	1960.9
30°	1631.4	1631.4	1632.3	1585.0	1521.9	1448.6	1470.9	1577.6	1596.1	1758.5	1932.1
32.5°	1746.5	1743.7	1739.1	1715.9	1618.4	1508.9	1502.4	1569.2	1578.5	1747.4	1923.7
35°	1858.8	1851.3	1887.5	1867.1	1767.8	1626.8	1534.9	1572.9	1593.4	1730.7	1897.7
37.5°	1943.2	1947.9	2023.0	2036.0	1950.6	1760.4	1626.8	1610.1	1629.6	1754.8	1897.7
40°	2052.7	2071.3	2141.8	2185.4	2133.5	1936.7	1772.5	1672.2	1686.2	1808.7	1938.6
42.5°	2196.6	2212.3	2302.4	2359.0	2344.1	2161.3	1916.3	1802.2	1791.0	1898.7	1999.8
45°	2386.8	2389.6	2480.5	2558.5	2589.1	2396.1	2144.6	1966.4	1957.1	2053.7	2112.1
47.5°	2613.2	2610.4	2667.1	2750.6	2833.2	2676.3	2407.2	2216.0	2182.6	2275.4	2298.6
50°	2832.2	2820.2	2833.2	2939.9	3098.6	3027.1	2726.4	2521.4	2488.0	2539.0	2578.9
52.5°	2952.9	2967.7	2932.5	3073.5	3380.7	3441.9	3149.6	2886.1	2857.3	2882.3	2951.9
55°	2868.4	2899.1	2875.9	3009.5	3504.1	3947.7	3697.1	3308.3	3271.2	3261.9	3376.0
57.5°	2509.3	2565.0	2569.6	2781.2	3461.4	4339.3	4467.4	3806.6	3751.0	3656.3	3774.2
60°	1926.5	1982.2	2024.9	2275.4	3095.8	4573.2	5360.1	4515.6	4331.9	4086.9	4157.4
62.5°	1350.2	1388.3	1431.0	1585.0	2386.8	4435.8	6132.2	5514.1	5175.4	4540.7	4628.8
65°	983.7	1013.4	1057.0	1147.9	1466.2	3670.2	6490.4	6700.1	6379.0	5117.9	5106.8
67.5°	740.5	759.1	816.6	962.3	1016.2	2267.1	6119.2	7952.9	7693.1	5759.1	5490.9
70°	560.5	576.3	630.1	829.6	949.3	1215.7	4827.4	8232.2	8306.5	6478.3	5748.9
72.5°	386.0	403.7	464.0	691.4	903.9	964.2	3029.9	7478.7	7759.9	6774.4	5472.4
75°	236.6	248.7	284.0	524.3	897.4	942.8	1667.6	6128.5	6426.4	6259.3	4787.5
77.5°	167.0	166.1	172.6	307.2	777.7	948.4	1028.2	4490.6	4780.1	4613.1	3248.9
80°	121.6	122.5	129.0	183.7	528.0	964.2	810.1	3007.6	3093.9	2405.4	1281.6
82.5°	73.3	77.0	92.8	124.4	317.4	870.5	748.9	1671.3	1563.7	772.1	352.6
85°	39.0	39.0	54.8	78.9	168.9	649.6	721.1	795.3	666.3	239.4	130.8
87.5°	9.3	9.3	15.8	31.6	67.7	310.9	491.8	316.4	253.3	80.7	53.8
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°	1940.4	1940.4	1940.4	1940.4	1940.4	1940.4	1940.4	1940.4	1940.4	1940.4	1940.4
2.5°	1961.8	1950.6	1964.6	1936.7	1914.5	1915.4	1881.0	1879.2	1874.5	1850.4	1858.8
5°	1984.1	1974.8	1959.0	1928.4	1879.2	1830.0	1800.3	1762.3	1746.5	1738.1	1741.8
7.5°	2005.4	1988.7	1943.2	1900.5	1824.4	1731.6	1677.8	1626.8	1561.8	1554.4	1541.4
10°	2011.0	1975.7	1917.2	1826.3	1725.1	1622.1	1499.6	1405.0	1354.9	1315.9	1301.0
12.5°	2002.6	1987.8	1875.5	1758.5	1605.4	1444.0	1301.0	1167.4	1074.6	1026.4	1013.4
15°	2001.7	1975.7	1829.1	1655.5	1459.7	1249.1	1045.8	885.3	787.9	748.0	748.0
17.5°	2002.6	1940.4	1774.3	1551.6	1288.1	1003.2	779.5	647.7	593.9	588.3	593.0
20°	1984.1	1914.5	1716.8	1429.1	1072.8	753.5	566.1	512.3	512.3	519.7	522.5
22.5°	1967.3	1875.5	1625.8	1277.8	853.8	545.7	460.3	444.5	462.1	475.1	480.7
25°	1944.1	1843.0	1533.0	1121.0	649.6	439.9	400.0	403.7	420.4	443.6	441.7
27.5°	1910.7	1786.4	1422.6	939.1	483.5	379.5	369.3	371.2	388.8	399.0	397.2
30°	1872.7	1728.9	1320.5	758.2	383.3	348.0	347.1	351.7	354.5	360.1	359.1
32.5°	1824.4	1652.8	1212.0	589.3	345.2	330.4	326.7	323.9	326.7	325.7	322.9
35°	1790.1	1611.9	1101.5	449.1	323.9	314.6	311.8	307.2	303.5	297.9	297.0
37.5°	1780.8	1571.1	985.5	366.6	307.2	302.5	293.2	284.9	280.3	277.5	275.6
40°	1775.3	1544.2	872.3	322.0	293.2	288.6	277.5	266.3	261.7	258.9	259.8
42.5°	1794.7	1529.3	757.2	299.7	281.2	272.8	260.8	247.8	246.8	245.0	247.8
45°	1863.4	1547.9	650.5	284.0	269.1	255.2	239.4	232.9	232.0	230.1	232.0
47.5°	2019.3	1594.3	559.6	273.8	256.1	244.1	227.4	218.1	217.2	216.2	216.2
50°	2234.6	1737.2	483.5	261.7	247.8	231.1	215.3	205.1	203.2	199.5	199.5
52.5°	2572.4	1977.6	438.0	255.2	232.9	219.0	202.3	191.2	186.5	182.8	182.8
55°	2952.9	2275.4	429.7	244.1	217.2	204.2	189.3	178.2	173.5	168.9	167.0
57.5°	3386.2	2669.8	489.1	236.6	206.0	189.3	172.6	162.4	158.7	154.0	152.2
60°	3789.9	3063.3	673.7	225.5	195.8	175.4	158.7	148.5	143.8	139.2	139.2
62.5°	4256.7	3550.5	986.5	225.5	186.5	160.5	143.8	136.4	133.6	129.0	128.1
65°	4808.9	4054.4	1214.7	239.4	183.7	147.6	129.9	122.5	119.7	116.9	116.0
67.5°	5229.2	4343.9	1044.9	276.5	195.8	136.4	116.0	111.4	109.5	106.7	104.9
70°	5273.8	4167.6	630.1	298.8	207.9	125.3	103.9	99.3	99.3	96.5	94.7
72.5°	4873.8	3698.1	424.1	266.3	188.4	112.3	91.9	88.2	86.3	84.4	83.5
75°	4078.5	3136.6	335.0	212.5	144.8	92.8	79.8	76.1	73.3	72.4	70.5
77.5°	2739.4	2038.8	247.8	166.1	106.7	75.2	66.8	63.1	60.3	59.4	56.6
80°	1052.3	776.7	159.6	120.6	75.2	59.4	52.9	49.2	47.3	44.5	42.7
82.5°	309.9	251.5	89.1	74.2	48.3	40.8	38.0	35.3	32.5	29.7	28.8
85°	128.1	115.1	54.8	39.0	29.7	24.1	22.3	19.5	16.7	14.8	13.0
87.5°	59.4	49.2	25.1	14.8	10.2	5.6	2.8	0.9	0.0	0.0	0.0
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)