

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: P480804

Luminaire Tested: **IFLD-S-SA2B-730-U-SL4**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P480804  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2B-730-U-SL4  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens  
Light Source: (32) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

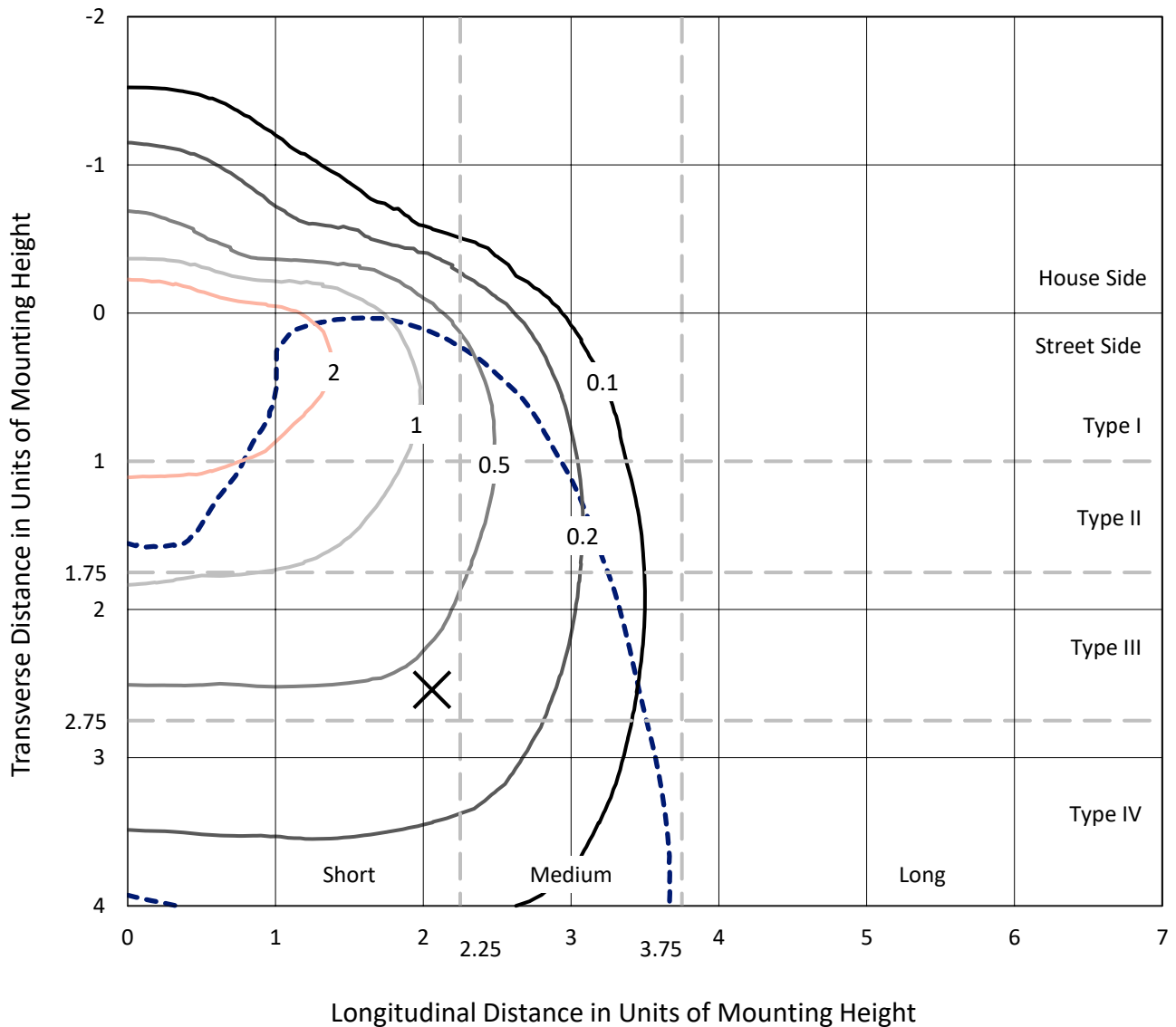
Lumens per Lamp: N/A  
Luminaire Lumens: 10056.8 lumens  
Efficiency: N/A  
Efficacy: 122.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G3

Input Watts (W): 82.4  
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

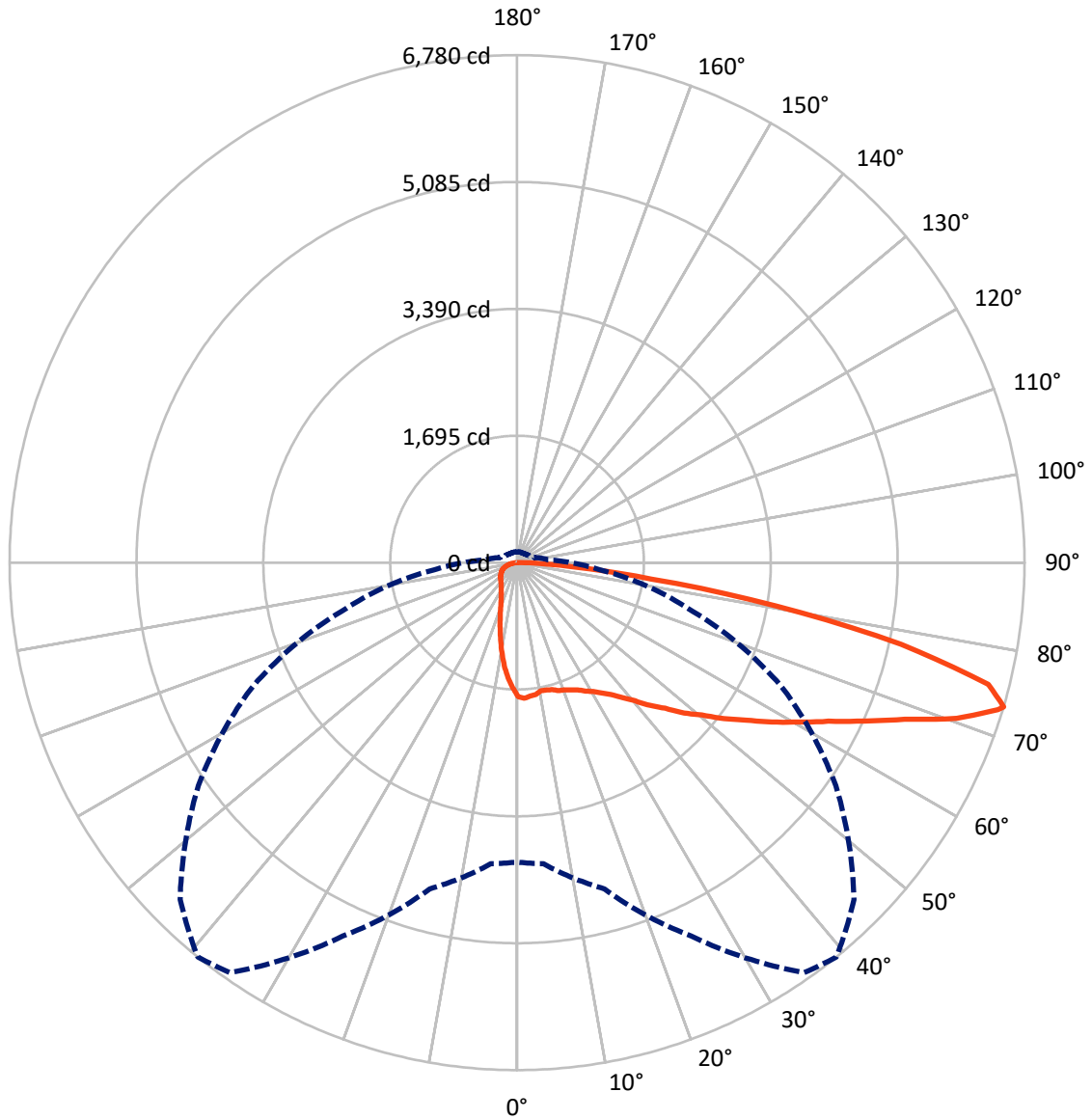
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.5 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral      - - - Horizontal Cone Through 73-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1413.7	0.0	1413.7
	% Fixture	14.1	0.0	14.1
<b>Street Side</b>	Lumens	8643.1	0.0	8643.1
	% Fixture	85.9	0.0	85.9
<b>Total</b>	Lumens	10056.8	0.0	10056.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	155.4	1.5
10°-20°	395.0	3.9
20°-30°	603.7	6.0
30°-40°	880.2	8.8
40°-50°	1330.1	13.2
50°-60°	1926.0	19.2
60°-70°	2447.1	24.3
70°-80°	1983.7	19.7
80°-90°	335.6	3.3
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°	10056.8	100.0
0°-180°	10056.8	100.0

**Coefficient of Utilization**



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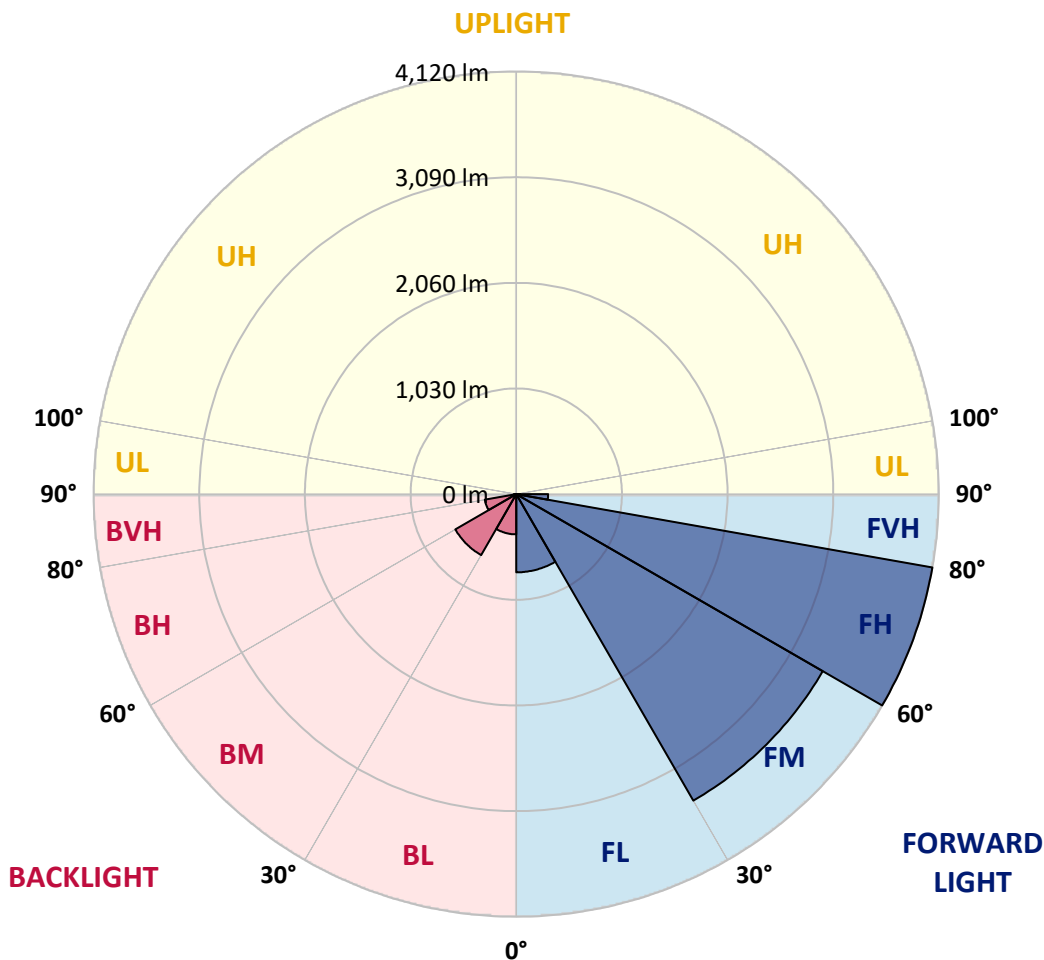
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	762.1	7.6			
FM (30°-60°)	3450.1	34.3			
FH (60°-80°)	4119.9	41.0			G2/5000
FVH (80°-90°)	311.0	3.1			G3/500
BL (0°-30°)	392.0	3.9	B1/500		
BM (30°-60°)	686.1	6.8	B1/1000		
BH (60°-80°)	310.9	3.1	B1/500		G1/500
BVH (80°-90°)	24.6	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G3**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	1790.2	1790.2	1790.2	1790.2	1790.2	1790.2	1790.2	1790.2	1790.2	1790.2	1790.2
2.5°	1832.9	1813.8	1817.2	1810.4	1817.2	1814.9	1811.6	1794.7	1811.6	1794.7	1790.2
5°	1808.2	1808.2	1819.4	1802.6	1804.8	1793.6	1804.8	1792.4	1781.2	1753.0	1745.2
7.5°	1800.3	1799.2	1800.3	1776.7	1787.9	1781.2	1769.9	1756.4	1733.9	1715.9	1690.0
10°	1746.3	1757.5	1745.2	1751.9	1760.9	1740.7	1739.5	1736.2	1726.0	1702.4	1686.7
12.5°	1717.0	1736.2	1742.9	1737.3	1745.2	1747.4	1740.7	1736.2	1723.8	1708.0	1663.0
15°	1729.4	1706.9	1726.0	1763.2	1755.3	1760.9	1762.0	1757.5	1751.9	1722.7	1693.4
17.5°	1732.8	1719.3	1759.8	1767.7	1777.8	1798.1	1784.6	1783.4	1762.0	1741.8	1699.0
20°	1740.7	1735.0	1767.7	1809.3	1810.4	1813.8	1820.6	1803.7	1792.4	1757.5	1692.3
22.5°	1769.9	1789.1	1819.4	1837.4	1847.6	1849.8	1849.8	1816.1	1803.7	1775.5	1723.8
25°	1857.7	1837.4	1880.2	1901.6	1886.9	1883.6	1875.7	1845.3	1831.8	1807.1	1738.4
27.5°	1921.8	1920.7	1945.5	1974.7	1935.3	1943.2	1915.1	1906.1	1875.7	1862.2	1764.3
30°	2009.6	2034.3	2033.2	2042.2	1990.5	1999.5	1963.5	1946.6	1929.7	1937.6	1840.8
32.5°	2122.1	2113.1	2127.7	2121.0	2069.2	2077.1	2034.3	2008.5	2014.1	2037.7	1945.5
35°	2194.1	2185.1	2190.7	2190.7	2175.0	2166.0	2148.0	2114.2	2141.2	2185.1	2062.5
37.5°	2271.8	2283.0	2315.6	2308.9	2288.6	2288.6	2286.4	2262.8	2297.6	2405.7	2249.3
40°	2340.4	2370.8	2391.0	2404.5	2428.2	2428.2	2447.3	2433.8	2496.8	2670.1	2477.7
42.5°	2412.4	2413.5	2523.8	2533.9	2586.8	2609.3	2623.9	2635.2	2753.3	2946.9	2721.8
45°	2504.7	2510.3	2607.1	2684.7	2766.8	2774.7	2829.9	2867.0	3012.1	3249.5	2987.4
47.5°	2626.2	2619.4	2723.0	2846.7	2949.1	3003.1	3069.5	3110.0	3288.9	3578.1	3277.7
50°	2786.0	2765.7	2825.4	3020.0	3140.4	3200.0	3318.2	3385.7	3595.0	3892.0	3476.8
52.5°	2980.6	2946.9	2994.1	3206.8	3341.8	3462.2	3574.7	3650.1	3868.4	4135.1	3624.2
55°	3186.5	3116.8	3130.3	3404.8	3599.5	3713.1	3867.3	3946.0	4168.8	4353.4	3771.6
57.5°	3390.2	3346.3	3319.3	3595.0	3906.7	4015.8	4157.6	4260.0	4449.0	4546.9	3896.5
60°	3561.2	3550.0	3506.1	3889.8	4231.8	4325.2	4473.8	4536.8	4679.7	4725.8	3898.8
62.5°	3701.9	3663.6	3733.4	4127.2	4562.6	4668.4	4831.6	4837.2	4938.5	4837.2	3784.0
65°	3812.1	3814.4	3925.8	4414.1	4945.2	5101.6	5233.3	5218.6	5153.4	4770.8	3512.8
67.5°	3912.3	3955.0	4118.2	4729.2	5436.9	5584.3	5730.6	5537.1	5211.9	4460.3	2982.9
70°	3991.0	4033.8	4378.1	5112.9	6016.4	6232.4	6265.1	5663.1	4943.0	3778.4	2250.4
72.5°	3982.0	4059.7	4525.5	5418.9	6530.6	6717.4	6454.1	5308.6	4118.2	2634.1	1313.1
73°	4001.2	4039.4	4513.1	5504.4	6687.0	6780.4	6366.3	5197.3	3884.2	2362.9	1110.6
75°	3632.1	3761.5	4289.2	5364.9	6519.3	6502.5	5862.2	4330.9	2761.2	1241.1	537.8
77.5°	2687.0	2769.1	3380.1	4411.9	5351.4	5243.4	4422.0	2768.0	1310.8	460.2	290.3
80°	1313.1	1377.2	1791.3	2547.4	3499.3	3508.3	2744.3	1440.2	561.5	259.9	198.0
82.5°	656.0	694.2	860.8	1119.6	1721.5	1803.7	1391.9	819.1	347.7	147.4	112.5
85°	428.7	455.7	530.0	548.0	730.2	770.8	648.1	639.1	226.2	79.9	91.1
87.5°	284.7	289.2	325.2	276.8	292.5	281.3	312.8	402.8	66.4	33.8	24.8
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°	1790.2	1790.2	1790.2	1790.2	1790.2	1790.2	1790.2	1790.2	1790.2	1790.2	1790.2
2.5°	1784.6	1768.8	1751.9	1728.3	1711.4	1685.5	1661.9	1651.8	1649.5	1650.7	1639.4
5°	1738.4	1715.9	1682.2	1633.8	1605.6	1562.9	1526.9	1507.8	1487.5	1490.9	1481.9
7.5°	1674.3	1649.5	1597.8	1541.5	1471.7	1411.0	1377.2	1330.0	1303.0	1282.7	1294.0
10°	1654.0	1611.3	1533.6	1456.0	1348.0	1268.1	1190.5	1136.4	1099.3	1063.3	1079.1
12.5°	1643.9	1601.1	1493.1	1378.4	1238.8	1117.3	1008.2	941.8	888.9	857.4	869.8
15°	1634.9	1582.0	1454.9	1292.8	1136.4	976.7	854.0	766.3	715.6	685.2	688.6
17.5°	1647.3	1571.9	1398.6	1209.6	1023.9	852.9	716.7	625.6	573.8	554.7	550.2
20°	1634.9	1560.6	1343.5	1126.3	911.4	734.7	604.2	528.8	492.8	477.1	473.7
22.5°	1639.4	1533.6	1286.1	1034.0	806.8	635.7	528.8	471.5	443.3	435.4	437.7
25°	1660.8	1517.9	1228.7	932.8	703.2	562.6	480.5	436.6	416.3	408.4	410.7
27.5°	1676.5	1531.4	1176.9	837.1	615.5	497.3	439.9	410.7	397.2	391.6	390.4
30°	1715.9	1539.3	1126.3	751.6	543.5	454.6	411.8	388.2	379.2	375.8	374.7
32.5°	1774.4	1553.9	1067.8	672.9	490.6	414.1	389.3	369.1	366.8	363.4	364.6
35°	1870.1	1604.5	1002.5	605.4	439.9	387.1	365.7	352.2	352.2	352.2	355.6
37.5°	2007.3	1675.4	944.0	541.2	407.3	363.4	345.4	340.9	338.7	342.1	344.3
40°	2184.0	1760.9	896.8	490.6	379.2	347.7	331.9	329.7	328.6	327.4	329.7
42.5°	2377.5	1870.1	856.3	451.2	358.9	330.8	319.6	317.3	312.8	315.1	318.4
45°	2569.9	2005.1	820.3	419.7	345.4	321.8	306.1	304.9	302.7	301.6	307.2
47.5°	2783.7	2137.9	809.0	400.6	335.3	308.3	297.1	295.9	289.2	288.0	292.5
50°	2950.2	2235.8	821.4	391.6	320.7	298.2	290.3	284.7	279.0	273.4	273.4
52.5°	3065.0	2303.3	830.4	384.8	312.8	284.7	274.5	272.3	266.7	261.0	258.8
55°	3168.5	2343.8	832.6	385.9	304.9	268.9	262.2	261.0	257.7	248.7	246.4
57.5°	3203.4	2326.9	787.6	375.8	300.4	258.8	249.8	252.0	247.5	239.7	238.5
60°	3200.0	2209.9	685.2	362.3	290.3	247.5	236.3	243.0	243.0	234.0	232.9
62.5°	3005.4	1939.8	560.3	336.4	279.0	236.3	223.9	234.0	237.4	231.8	230.7
65°	2601.4	1579.8	468.1	310.6	262.2	223.9	211.5	222.8	228.4	226.2	225.0
67.5°	2152.5	1208.5	389.3	276.8	240.8	207.0	196.9	204.8	208.2	209.3	210.4
70°	1521.3	804.5	325.2	239.7	211.5	189.0	177.8	178.9	177.8	181.2	181.2
72.5°	827.0	463.6	264.4	203.7	182.3	164.3	156.4	150.8	150.8	149.7	149.7
73°	707.7	416.3	252.0	198.0	174.4	159.8	150.8	146.3	146.3	145.1	144.0
75°	397.2	304.9	216.0	169.9	150.8	139.5	132.8	126.0	124.9	124.9	124.9
77.5°	261.0	237.4	172.2	136.1	121.5	111.4	109.1	102.4	102.4	102.4	101.3
80°	195.8	186.8	132.8	103.5	93.4	85.5	83.3	78.8	77.6	73.1	74.3
82.5°	130.5	147.4	96.8	73.1	63.0	58.5	58.5	57.4	54.0	48.4	48.4
85°	103.5	120.4	69.8	45.0	37.1	31.5	32.6	31.5	30.4	24.8	23.6
87.5°	19.1	48.4	20.3	12.4	9.0	5.6	5.6	3.4	2.3	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)