

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: P480728

Luminaire Tested: **IFLD-S-SA2D-722-U-SL4**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P480728  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2D-722-U-SL4  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens  
Light Source: (32) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

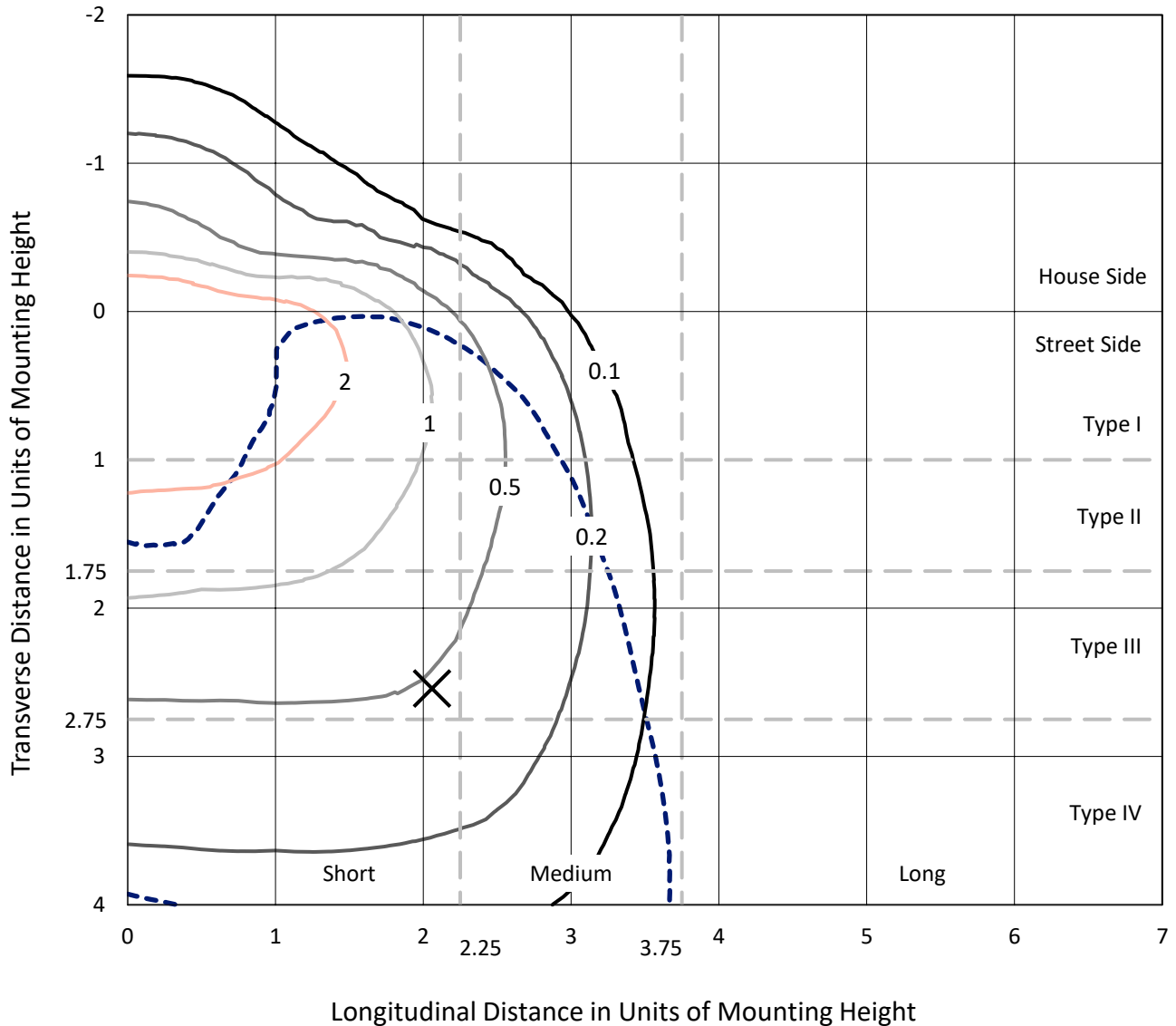
Lumens per Lamp: N/A  
Luminaire Lumens: 11143.1 lumens  
Efficiency: N/A  
Efficacy: 89.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G3

Input Watts (W): 123.9  
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

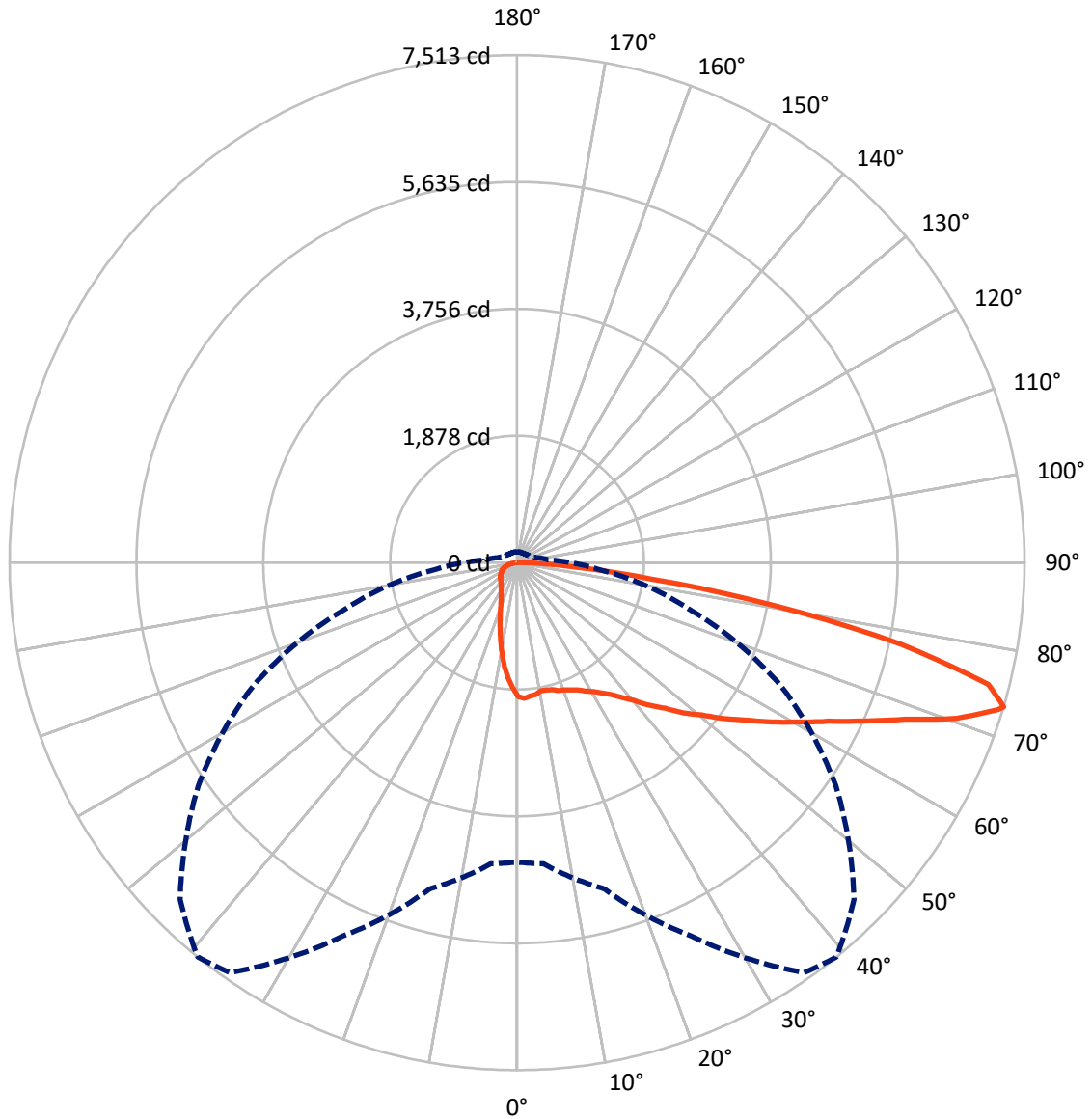
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 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	1566.4	0.0	1566.4
	% Fixture	14.1	0.0	14.1
<b>Street Side</b>	Lumens	9576.7	0.0	9576.7
	% Fixture	85.9	0.0	85.9
<b>Total</b>	Lumens	11143.1	0.0	11143.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	172.2	1.5
10°-20°	437.7	3.9
20°-30°	668.9	6.0
30°-40°	975.3	8.8
40°-50°	1473.7	13.2
50°-60°	2134.0	19.2
60°-70°	2711.4	24.3
70°-80°	2198.0	19.7
80°-90°	371.9	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°	11143.1	100.0
0°-180°	11143.1	100.0

**Coefficient of Utilization**



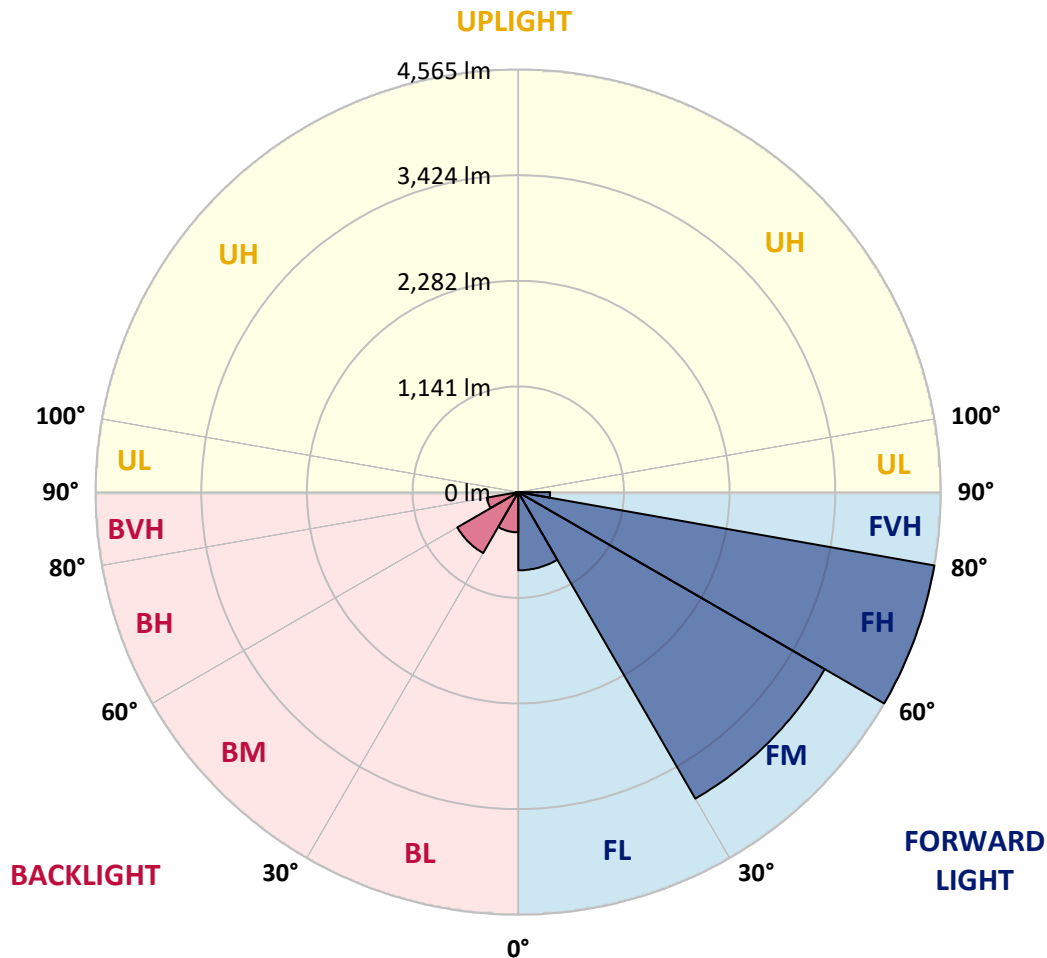
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	844.4	7.6			
FM (30°-60°)	3822.8	34.3			
FH (60°-80°)	4564.9	41.0			G2/5000
FVH (80°-90°)	344.6	3.1			G3/500
BL (0°-30°)	434.4	3.9	B1/500		
BM (30°-60°)	760.2	6.8	B1/1000		
BH (60°-80°)	344.5	3.1	B1/500		G1/500
BVH (80°-90°)	27.3	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°	1983.5	1983.5	1983.5	1983.5	1983.5	1983.5	1983.5	1983.5	1983.5	1983.5	1983.5
2.5°	2030.9	2009.7	2013.5	2006.0	2013.5	2011.0	2007.2	1988.5	2007.2	1988.5	1983.5
5°	2003.5	2003.5	2016.0	1997.3	1999.8	1987.3	1999.8	1986.0	1973.6	1942.4	1933.7
7.5°	1994.8	1993.5	1994.8	1968.6	1981.1	1973.6	1961.1	1946.1	1921.2	1901.3	1872.6
10°	1934.9	1947.4	1933.7	1941.2	1951.1	1928.7	1927.4	1923.7	1912.5	1886.3	1868.8
12.5°	1902.5	1923.7	1931.2	1924.9	1933.7	1936.2	1928.7	1923.7	1910.0	1892.5	1842.7
15°	1916.2	1891.3	1912.5	1953.6	1944.9	1951.1	1952.4	1947.4	1941.2	1908.7	1876.3
17.5°	1920.0	1905.0	1949.9	1958.6	1969.8	1992.3	1977.3	1976.1	1952.4	1929.9	1882.6
20°	1928.7	1922.5	1958.6	2004.7	2006.0	2009.7	2017.2	1998.5	1986.0	1947.4	1875.1
22.5°	1961.1	1982.3	2016.0	2035.9	2047.1	2049.6	2049.6	2012.2	1998.5	1967.3	1910.0
25°	2058.3	2035.9	2083.3	2107.0	2090.8	2087.0	2078.3	2044.6	2029.7	2002.2	1926.2
27.5°	2129.4	2128.2	2155.6	2188.0	2144.4	2153.1	2121.9	2112.0	2078.3	2063.3	1954.9
30°	2226.7	2254.1	2252.8	2262.8	2205.5	2215.4	2175.5	2156.8	2138.1	2146.9	2039.6
32.5°	2351.3	2341.4	2357.6	2350.1	2292.7	2301.5	2254.1	2225.4	2231.6	2257.8	2155.6
35°	2431.1	2421.1	2427.4	2427.4	2409.9	2400.0	2380.0	2342.6	2372.5	2421.1	2285.3
37.5°	2517.1	2529.6	2565.8	2558.3	2535.8	2535.8	2533.4	2507.2	2545.8	2665.5	2492.2
40°	2593.2	2626.9	2649.3	2664.3	2690.4	2690.4	2711.6	2696.7	2766.5	2958.5	2745.3
42.5°	2673.0	2674.2	2796.4	2807.6	2866.2	2891.2	2907.4	2919.8	3050.7	3265.2	3015.8
45°	2775.2	2781.5	2888.7	2974.7	3065.7	3074.4	3135.5	3176.7	3337.5	3600.6	3310.1
47.5°	2909.9	2902.4	3017.1	3154.2	3267.7	3327.5	3401.1	3446.0	3644.2	3964.6	3631.7
50°	3086.9	3064.5	3130.5	3346.2	3479.6	3545.7	3676.6	3751.4	3983.3	4312.4	3852.4
52.5°	3302.6	3265.2	3317.5	3553.2	3702.8	3836.2	3960.9	4044.4	4286.3	4581.7	4015.7
55°	3530.7	3453.4	3468.4	3772.6	3988.3	4114.2	4285.0	4372.3	4619.1	4823.6	4179.0
57.5°	3756.4	3707.8	3677.9	3983.3	4328.6	4449.6	4606.7	4720.1	4929.6	5038.0	4317.4
60°	3945.9	3933.4	3884.8	4309.9	4688.9	4792.4	4957.0	5026.8	5185.1	5236.3	4319.9
62.5°	4101.7	4059.3	4136.6	4573.0	5055.5	5172.7	5353.5	5359.7	5471.9	5359.7	4192.7
65°	4223.9	4226.4	4349.8	4890.9	5479.4	5652.7	5798.5	5782.3	5710.0	5286.1	3892.3
67.5°	4334.9	4382.3	4563.0	5240.0	6024.2	6187.5	6349.6	6135.2	5774.8	4942.0	3305.1
70°	4422.1	4469.5	4851.0	5665.1	6666.3	6905.6	6941.8	6274.8	5476.9	4186.5	2493.5
72.5°	4412.2	4498.2	5014.3	6004.2	7236.0	7443.0	7151.2	5882.1	4563.0	2918.6	1454.9
73°	4433.4	4475.8	5000.6	6099.0	7409.3	7512.8	7054.0	5758.6	4303.7	2618.1	1230.5
75°	4024.4	4167.8	4752.5	5944.4	7223.5	7204.8	6495.5	4798.7	3059.5	1375.1	595.9
77.5°	2977.2	3068.2	3745.2	4888.4	5929.4	5809.8	4899.6	3067.0	1452.4	509.9	321.7
80°	1454.9	1526.0	1984.8	2822.6	3877.3	3887.3	3040.8	1595.8	622.1	288.0	219.4
82.5°	726.8	769.2	953.7	1240.5	1907.5	1998.5	1542.2	907.6	385.2	163.3	124.7
85°	475.0	504.9	587.2	607.2	809.1	854.0	718.1	708.1	250.6	88.5	101.0
87.5°	315.4	320.4	360.3	306.7	324.1	311.7	346.6	446.3	73.6	37.4	27.4
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°	1983.5	1983.5	1983.5	1983.5	1983.5	1983.5	1983.5	1983.5	1983.5	1983.5	1983.5
2.5°	1977.3	1959.9	1941.2	1915.0	1896.3	1867.6	1841.4	1830.2	1827.7	1829.0	1816.5
5°	1926.2	1901.3	1863.9	1810.3	1779.1	1731.7	1691.8	1670.6	1648.2	1651.9	1641.9
7.5°	1855.1	1827.7	1770.4	1708.0	1630.7	1563.4	1526.0	1473.6	1443.7	1421.3	1433.7
10°	1832.7	1785.3	1699.3	1613.3	1493.6	1405.1	1319.0	1259.2	1218.1	1178.2	1195.6
12.5°	1821.5	1774.1	1654.4	1527.2	1372.6	1238.0	1117.1	1043.5	984.9	950.0	963.7
15°	1811.5	1752.9	1612.0	1432.5	1259.2	1082.2	946.3	849.0	792.9	759.3	763.0
17.5°	1825.2	1741.7	1549.7	1340.2	1134.5	945.0	794.2	693.2	635.8	614.6	609.7
20°	1811.5	1729.2	1488.6	1248.0	1009.9	814.1	669.5	586.0	546.1	528.6	524.9
22.5°	1816.5	1699.3	1425.0	1145.7	893.9	704.4	586.0	522.4	491.2	482.5	485.0
25°	1840.2	1681.8	1361.4	1033.5	779.2	623.4	532.4	483.7	461.3	452.6	455.1
27.5°	1857.6	1696.8	1304.1	927.6	682.0	551.1	487.5	455.1	440.1	433.9	432.6
30°	1901.3	1705.5	1248.0	832.8	602.2	503.7	456.3	430.1	420.1	416.4	415.2
32.5°	1966.1	1721.7	1183.1	745.5	543.6	458.8	431.4	408.9	406.4	402.7	403.9
35°	2072.1	1777.8	1110.8	670.7	487.5	428.9	405.2	390.2	390.2	390.2	394.0
37.5°	2224.2	1856.4	1046.0	599.7	451.3	402.7	382.7	377.8	375.3	379.0	381.5
40°	2419.9	1951.1	993.6	543.6	420.1	385.2	367.8	365.3	364.0	362.8	365.3
42.5°	2634.3	2072.1	948.8	499.9	397.7	366.5	354.1	351.6	346.6	349.1	352.8
45°	2847.5	2221.7	908.9	465.0	382.7	356.6	339.1	337.9	335.4	334.1	340.4
47.5°	3084.4	2368.8	896.4	443.8	371.5	341.6	329.1	327.9	320.4	319.2	324.1
50°	3268.9	2477.3	910.1	433.9	355.3	330.4	321.7	315.4	309.2	303.0	303.0
52.5°	3396.1	2552.1	920.1	426.4	346.6	315.4	304.2	301.7	295.5	289.2	286.7
55°	3510.8	2596.9	922.6	427.6	337.9	298.0	290.5	289.2	285.5	275.5	273.0
57.5°	3549.4	2578.2	872.7	416.4	332.9	286.7	276.8	279.3	274.3	265.6	264.3
60°	3545.7	2448.6	759.3	401.4	321.7	274.3	261.8	269.3	269.3	259.3	258.1
62.5°	3330.0	2149.4	620.9	372.8	309.2	261.8	248.1	259.3	263.1	256.8	255.6
65°	2882.4	1750.4	518.6	344.1	290.5	248.1	234.4	246.9	253.1	250.6	249.3
67.5°	2385.0	1339.0	431.4	306.7	266.8	229.4	218.2	226.9	230.6	231.9	233.1
70°	1685.6	891.4	360.3	265.6	234.4	209.5	197.0	198.2	197.0	200.7	200.7
72.5°	916.3	513.7	293.0	225.7	202.0	182.0	173.3	167.1	167.1	165.8	165.8
73°	784.2	461.3	279.3	219.4	193.2	177.0	167.1	162.1	162.1	160.8	159.6
75°	440.1	337.9	239.4	188.3	167.1	154.6	147.1	139.6	138.4	138.4	138.4
77.5°	289.2	263.1	190.7	150.9	134.6	123.4	120.9	113.5	113.5	113.5	112.2
80°	216.9	207.0	147.1	114.7	103.5	94.8	92.3	87.3	86.0	81.0	82.3
82.5°	144.6	163.3	107.2	81.0	69.8	64.8	64.8	63.6	59.8	53.6	53.6
85°	114.7	133.4	77.3	49.9	41.1	34.9	36.2	34.9	33.7	27.4	26.2
87.5°	21.2	53.6	22.4	13.7	10.0	6.2	6.2	3.7	2.5	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)