

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: P481001

Luminaire Tested: **IFLD-S-SA2D-827-U-SL4**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P481001  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2D-827-U-SL4  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens  
Light Source: (32) 2700K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

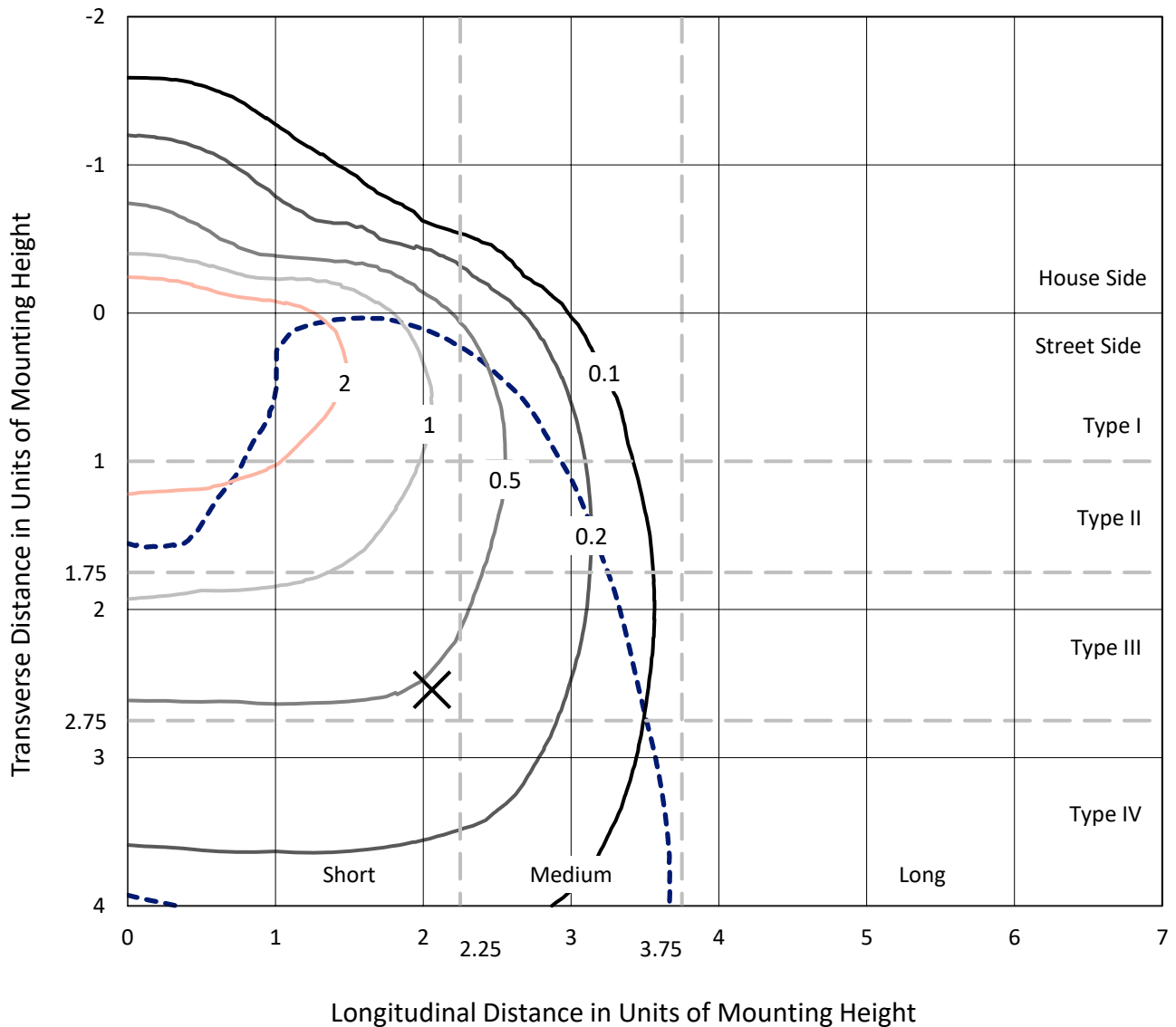
Lumens per Lamp: N/A  
Luminaire Lumens: 11120.5 lumens  
Efficiency: N/A  
Efficacy: 89.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G3

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

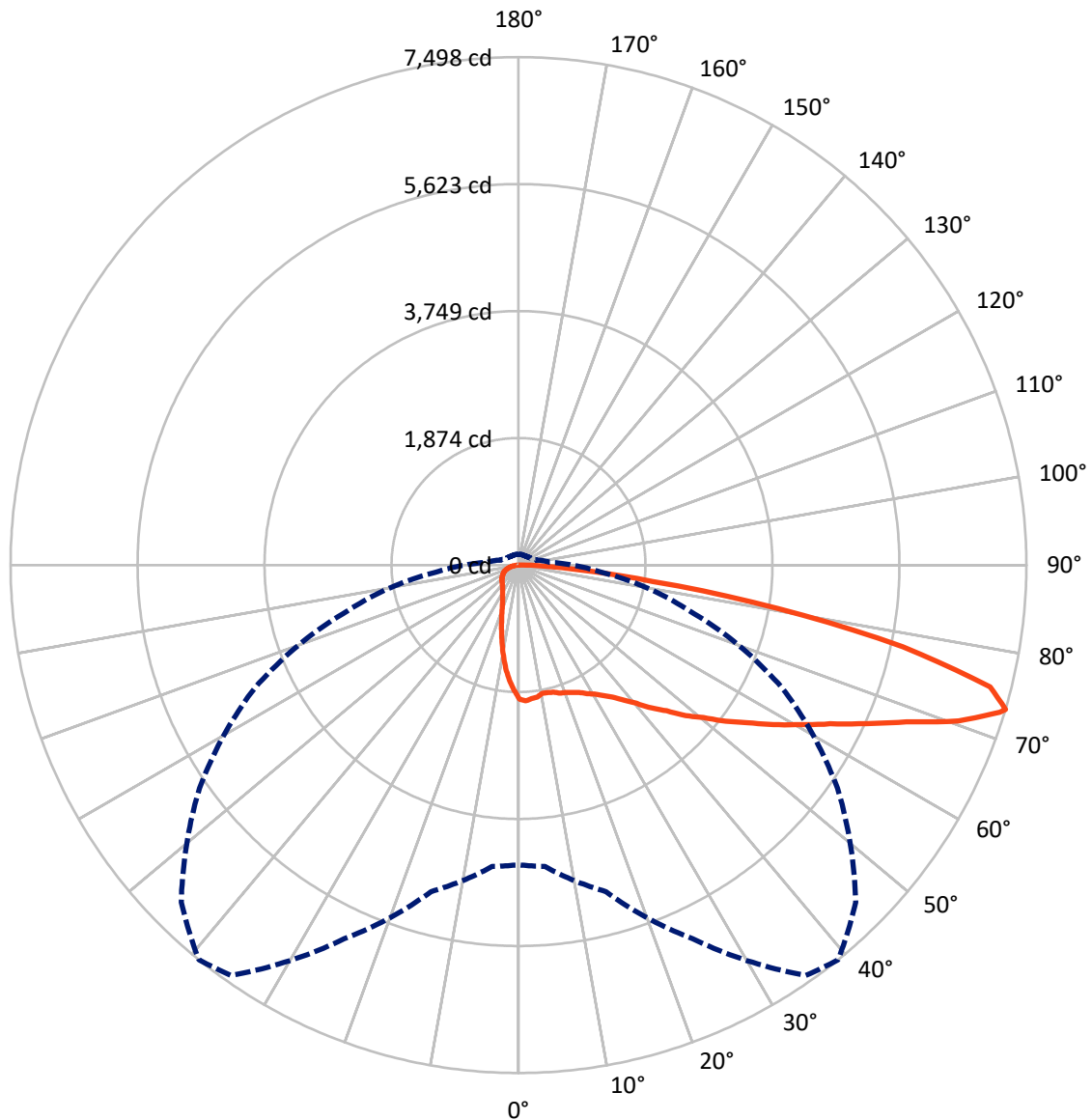
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.9 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	1563.2	0.0	1563.2
	% Fixture	14.1	0.0	14.1
<b>Street Side</b>	Lumens	9557.2	0.0	9557.2
	% Fixture	85.9	0.0	85.9
<b>Total</b>	Lumens	11120.5	0.0	11120.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	171.8	1.5
10°-20°	436.8	3.9
20°-30°	667.5	6.0
30°-40°	973.3	8.8
40°-50°	1470.7	13.2
50°-60°	2129.7	19.2
60°-70°	2705.9	24.3
70°-80°	2193.5	19.7
80°-90°	371.1	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°	11120.5	100.0
0°-180°	11120.5	100.0

**Coefficient of Utilization**



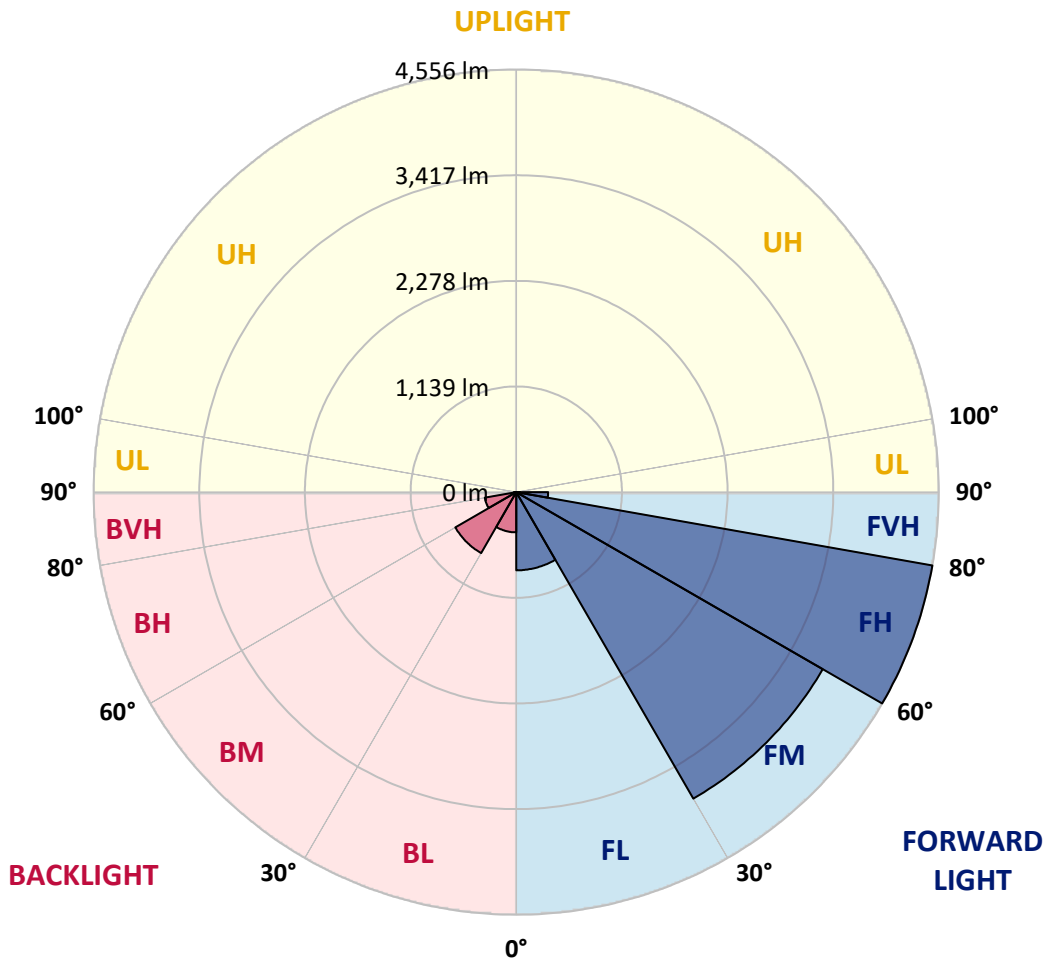
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	842.7	7.6			
FM (30°-60°)	3815.0	34.3			
FH (60°-80°)	4555.6	41.0			G2/5000
FVH (80°-90°)	343.9	3.1			G3/500
BL (0°-30°)	433.5	3.9	B1/500		
BM (30°-60°)	758.7	6.8	B1/1000		
BH (60°-80°)	343.8	3.1	B1/500		G1/500
BVH (80°-90°)	27.2	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°	1979.5	1979.5	1979.5	1979.5	1979.5	1979.5	1979.5	1979.5	1979.5	1979.5	1979.5
2.5°	2026.8	2005.6	2009.4	2001.9	2009.4	2006.9	2003.1	1984.5	2003.1	1984.5	1979.5
5°	1999.4	1999.4	2011.9	1993.2	1995.7	1983.2	1995.7	1982.0	1969.6	1938.4	1929.7
7.5°	1990.7	1989.5	1990.7	1964.6	1977.0	1969.6	1957.1	1942.2	1917.3	1897.4	1868.8
10°	1931.0	1943.4	1929.7	1937.2	1947.2	1924.8	1923.5	1919.8	1908.6	1882.5	1865.0
12.5°	1898.6	1919.8	1927.3	1921.0	1929.7	1932.2	1924.8	1919.8	1906.1	1888.7	1838.9
15°	1912.3	1887.4	1908.6	1949.6	1940.9	1947.2	1948.4	1943.4	1937.2	1904.9	1872.5
17.5°	1916.1	1901.1	1945.9	1954.6	1965.8	1988.2	1973.3	1972.0	1948.4	1926.0	1878.7
20°	1924.8	1918.5	1954.6	2000.7	2001.9	2005.6	2013.1	1994.4	1982.0	1943.4	1871.3
22.5°	1957.1	1978.3	2011.9	2031.8	2043.0	2045.4	2045.4	2008.1	1994.4	1963.3	1906.1
25°	2054.2	2031.8	2079.0	2102.7	2086.5	2082.8	2074.1	2040.5	2025.5	1998.2	1922.3
27.5°	2125.1	2123.8	2151.2	2183.6	2140.0	2148.7	2117.6	2107.7	2074.1	2059.1	1950.9
30°	2222.1	2249.5	2248.3	2258.2	2201.0	2210.9	2171.1	2152.4	2133.8	2142.5	2035.5
32.5°	2346.5	2336.6	2352.8	2345.3	2288.1	2296.8	2249.5	2220.9	2227.1	2253.2	2151.2
35°	2426.2	2416.2	2422.4	2422.4	2405.0	2395.1	2375.2	2337.8	2367.7	2416.2	2280.6
37.5°	2512.0	2524.5	2560.5	2553.1	2530.7	2530.7	2528.2	2502.1	2540.6	2660.1	2487.1
40°	2587.9	2621.5	2643.9	2658.8	2685.0	2685.0	2706.1	2691.2	2760.9	2952.5	2739.7
42.5°	2667.5	2668.8	2790.7	2801.9	2860.4	2885.3	2901.5	2913.9	3044.5	3258.5	3009.7
45°	2769.6	2775.8	2882.8	2968.6	3059.5	3068.2	3129.1	3170.2	3330.7	3593.2	3303.3
47.5°	2903.9	2896.5	3010.9	3147.8	3261.0	3320.7	3394.2	3438.9	3636.8	3956.5	3624.3
50°	3080.6	3058.2	3124.2	3339.4	3472.5	3538.5	3669.1	3743.8	3975.2	4303.7	3844.5
52.5°	3295.9	3258.5	3310.8	3545.9	3695.2	3828.4	3952.8	4036.2	4277.5	4572.4	4007.5
55°	3523.5	3446.4	3461.3	3764.9	3980.2	4105.8	4276.3	4363.4	4609.7	4813.8	4170.5
57.5°	3748.7	3700.2	3670.4	3975.2	4319.8	4440.5	4597.3	4710.5	4919.5	5027.8	4308.6
60°	3937.9	3925.4	3876.9	4301.2	4679.4	4782.7	4946.9	5016.6	5174.6	5225.6	4311.1
62.5°	4093.4	4051.1	4128.2	4563.7	5045.2	5162.1	5342.6	5348.8	5460.8	5348.8	4184.2
65°	4215.3	4217.8	4341.0	4881.0	5468.2	5641.2	5786.7	5770.6	5698.4	5275.4	3884.4
67.5°	4326.0	4373.3	4553.7	5229.3	6011.9	6174.9	6336.7	6122.7	5763.1	4932.0	3298.3
70°	4413.1	4460.4	4841.1	5653.6	6652.7	6891.6	6927.7	6262.0	5465.7	4178.0	2488.4
72.5°	4403.2	4489.0	5004.1	5992.0	7221.3	7427.8	7136.7	5870.1	4553.7	2912.6	1452.0
73°	4424.3	4466.6	4990.4	6086.6	7394.2	7497.5	7039.6	5746.9	4294.9	2612.8	1228.0
75°	4016.2	4159.3	4742.9	5932.3	7208.8	7190.2	6482.2	4788.9	3053.2	1372.3	594.7
77.5°	2971.1	3062.0	3737.5	4878.5	5917.4	5797.9	4889.7	3060.7	1449.5	508.9	321.0
80°	1452.0	1522.9	1980.8	2816.8	3869.4	3879.4	3034.6	1592.6	620.9	287.4	219.0
82.5°	725.4	767.7	951.8	1238.0	1903.6	1994.4	1539.1	905.8	384.5	163.0	124.4
85°	474.0	503.9	586.0	605.9	807.5	852.3	716.7	706.7	250.1	88.3	100.8
87.5°	314.8	319.8	359.6	306.1	323.5	311.0	345.9	445.4	73.4	37.3	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°	1979.5	1979.5	1979.5	1979.5	1979.5	1979.5	1979.5	1979.5	1979.5	1979.5	1979.5
2.5°	1973.3	1955.9	1937.2	1911.1	1892.4	1863.8	1837.7	1826.5	1824.0	1825.2	1812.8
5°	1922.3	1897.4	1860.1	1806.6	1775.5	1728.2	1688.4	1667.2	1644.8	1648.6	1638.6
7.5°	1851.4	1824.0	1766.8	1704.5	1627.4	1560.2	1522.9	1470.6	1440.8	1418.4	1430.8
10°	1829.0	1781.7	1695.8	1610.0	1490.5	1402.2	1316.4	1256.6	1215.6	1175.8	1193.2
12.5°	1817.8	1770.5	1651.0	1524.1	1369.9	1235.5	1114.8	1041.4	982.9	948.1	961.8
15°	1807.8	1749.3	1608.7	1429.6	1256.6	1080.0	944.3	847.3	791.3	757.7	761.4
17.5°	1821.5	1738.1	1546.5	1337.5	1132.2	943.1	792.5	691.8	634.5	613.4	608.4
20°	1807.8	1725.7	1485.6	1245.4	1007.8	812.5	668.1	584.8	545.0	527.5	523.8
22.5°	1812.8	1695.8	1422.1	1143.4	892.1	703.0	584.8	521.3	490.2	481.5	484.0
25°	1836.4	1678.4	1358.7	1031.4	777.6	622.1	531.3	482.7	460.4	451.6	454.1
27.5°	1853.8	1693.3	1301.4	925.7	680.6	549.9	486.5	454.1	439.2	433.0	431.7
30°	1897.4	1702.1	1245.4	831.1	600.9	502.7	455.4	429.2	419.3	415.6	414.3
32.5°	1962.1	1718.2	1180.7	744.0	542.5	457.9	430.5	408.1	405.6	401.9	403.1
35°	2067.8	1774.2	1108.6	669.4	486.5	428.0	404.4	389.4	389.4	389.4	393.2
37.5°	2219.6	1852.6	1043.9	598.5	450.4	401.9	382.0	377.0	374.5	378.2	380.7
40°	2415.0	1947.2	991.6	542.5	419.3	384.5	367.0	364.5	363.3	362.1	364.5
42.5°	2629.0	2067.8	946.8	498.9	396.9	365.8	353.4	350.9	345.9	348.4	352.1
45°	2841.7	2217.1	907.0	464.1	382.0	355.8	338.4	337.2	334.7	333.4	339.7
47.5°	3078.1	2364.0	894.6	442.9	370.8	340.9	328.5	327.2	319.8	318.5	323.5
50°	3262.3	2472.2	908.3	433.0	354.6	329.7	321.0	314.8	308.6	302.3	302.3
52.5°	3389.2	2546.9	918.2	425.5	345.9	314.8	303.6	301.1	294.9	288.7	286.2
55°	3503.6	2591.6	920.7	426.8	337.2	297.4	289.9	288.7	284.9	275.0	272.5
57.5°	3542.2	2573.0	870.9	415.6	332.2	286.2	276.2	278.7	273.7	265.0	263.8
60°	3538.5	2443.6	757.7	400.6	321.0	273.7	261.3	268.7	268.7	258.8	257.5
62.5°	3323.2	2145.0	619.6	372.0	308.6	261.3	247.6	258.8	262.5	256.3	255.1
65°	2876.6	1746.8	517.6	343.4	289.9	247.6	233.9	246.3	252.6	250.1	248.8
67.5°	2380.1	1336.3	430.5	306.1	266.3	228.9	217.7	226.4	230.2	231.4	232.7
70°	1682.1	889.6	359.6	265.0	233.9	209.0	196.6	197.8	196.6	200.3	200.3
72.5°	914.5	512.6	292.4	225.2	201.6	181.7	172.9	166.7	166.7	165.5	165.5
73°	782.6	460.4	278.7	219.0	192.8	176.7	166.7	161.7	161.7	160.5	159.3
75°	439.2	337.2	238.9	187.9	166.7	154.3	146.8	139.3	138.1	138.1	138.1
77.5°	288.7	262.5	190.4	150.5	134.4	123.2	120.7	113.2	113.2	113.2	112.0
80°	216.5	206.5	146.8	114.5	103.3	94.6	92.1	87.1	85.8	80.9	82.1
82.5°	144.3	163.0	107.0	80.9	69.7	64.7	64.7	63.5	59.7	53.5	53.5
85°	114.5	133.1	77.1	49.8	41.1	34.8	36.1	34.8	33.6	27.4	26.1
87.5°	21.2	53.5	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)