

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: P484940

Luminaire Tested: **IFLD-S-SA2D-830-U-SL4-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484940
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2D-830-U-SL4-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens with House Side Shield
Light Source: (32) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

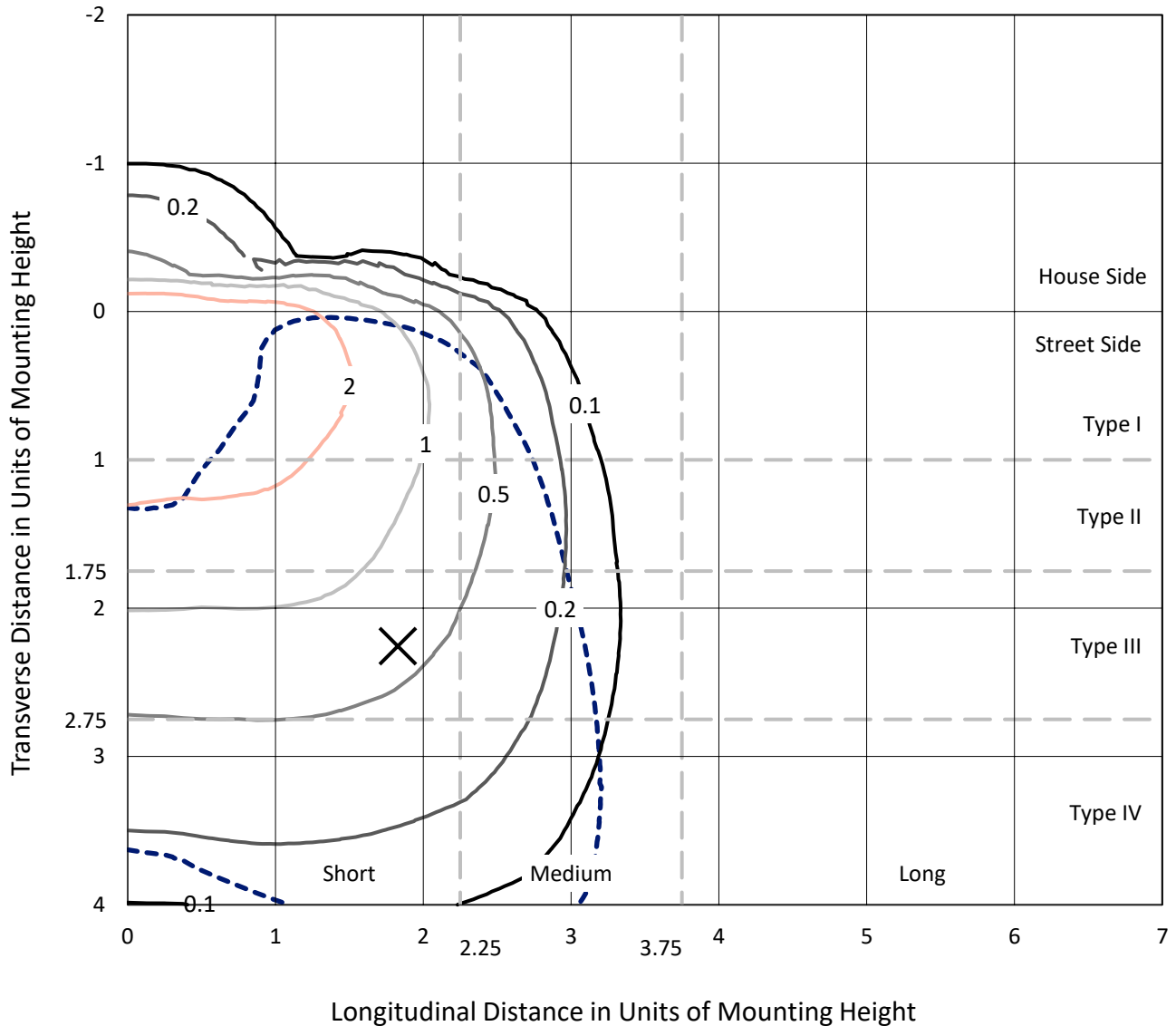
Lumens per Lamp: N/A
Luminaire Lumens: 10266.3 lumens
Efficiency: N/A
Efficacy: 82.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

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

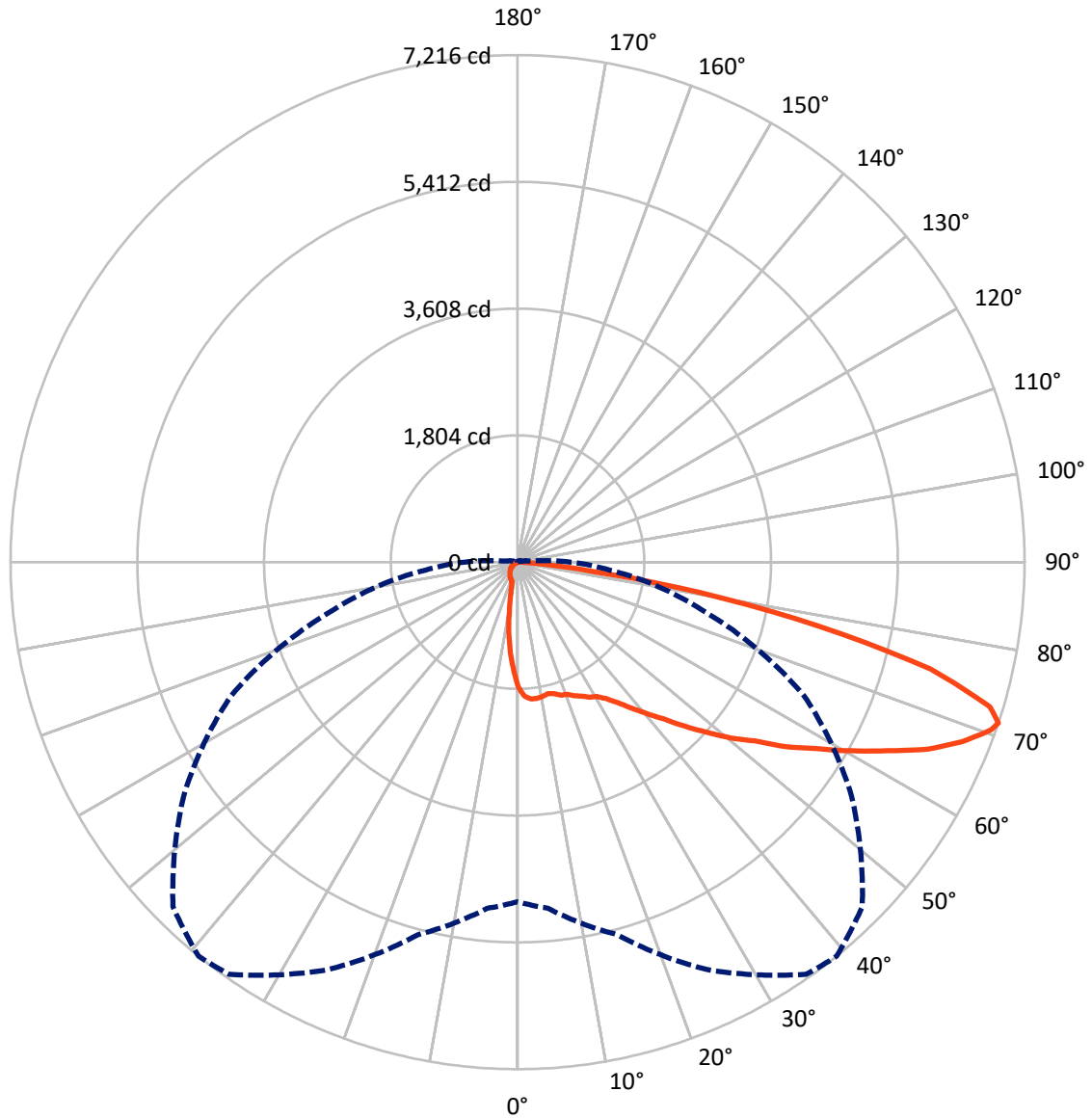
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	772.9	0.0	772.9
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	9493.4	0.0	9493.4
	% Fixture	92.5	0.0	92.5
Total	Lumens	10266.3	0.0	10266.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.4	1.5
10°-20°	367.7	3.6
20°-30°	590.3	5.8
30°-40°	903.6	8.8
40°-50°	1450.5	14.1
50°-60°	2130.5	20.8
60°-70°	2683.3	26.1
70°-80°	1790.8	17.4
80°-90°	200.1	1.9
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°	10266.3	100.0
0°-180°	10266.3	100.0

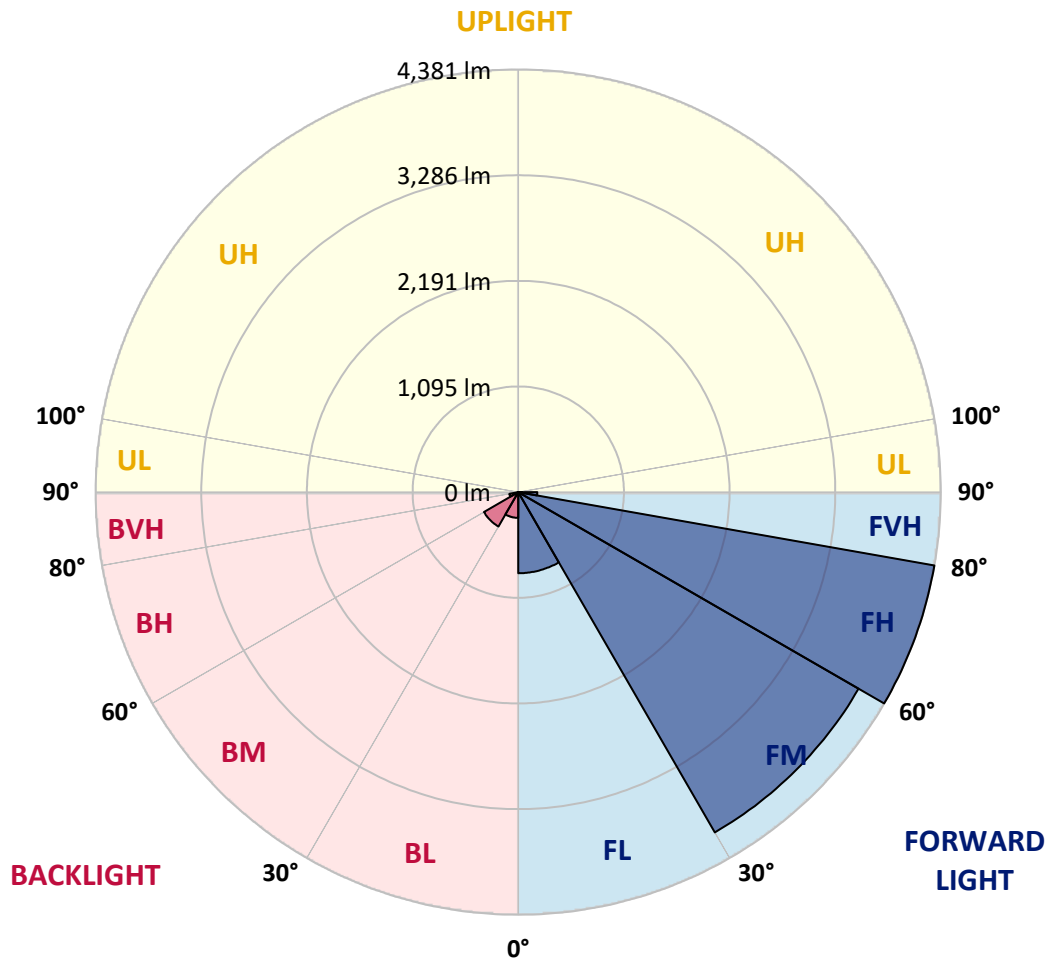


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	840.6	8.2			
FM (30°-60°)	4073.8	39.7			
FH (60°-80°)	4381.1	42.7			G2/5000
FVH (80°-90°)	197.9	1.9			G2/225
BL (0°-30°)	266.8	2.6	B1/500		
BM (30°-60°)	410.8	4.0	B1/1000		
BH (60°-80°)	93.0	0.9	B0/110		G0/110
BVH (80°-90°)	2.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	1786.9	1786.9	1786.9	1786.9	1786.9	1786.9	1786.9	1786.9	1786.9	1786.9	1786.9
2.5°	1925.6	1944.5	1925.6	1917.5	1909.5	1910.8	1889.3	1893.3	1867.7	1834.0	1807.1
5°	1986.2	2011.8	1991.6	1982.2	1980.8	1955.2	1944.5	1918.9	1887.9	1835.4	1803.1
7.5°	1980.8	1975.4	1984.9	1976.8	1959.3	1959.3	1947.2	1910.8	1879.8	1820.6	1765.4
10°	1940.4	1956.6	1948.5	1939.1	1943.1	1944.5	1921.6	1896.0	1886.6	1827.3	1737.1
12.5°	1936.4	1909.5	1939.1	1940.4	1922.9	1921.6	1918.9	1912.1	1882.5	1828.7	1743.8
15°	1922.9	1912.1	1941.8	1943.1	1947.2	1943.1	1947.2	1941.8	1912.1	1881.2	1773.4
17.5°	1933.7	1921.6	1963.3	1983.5	1974.1	1992.9	1986.2	1962.0	1936.4	1900.0	1801.7
20°	1936.4	1953.9	1999.7	2007.8	2037.4	2006.4	2005.1	1979.5	1963.3	1924.3	1819.2
22.5°	1986.2	1994.3	2050.8	2068.4	2069.7	2065.7	2032.0	2002.4	1995.6	1947.2	1823.3
25°	2061.6	2089.9	2115.5	2126.3	2130.3	2111.4	2076.4	2038.7	2022.6	1991.6	1865.0
27.5°	2194.9	2177.4	2200.3	2216.5	2170.7	2177.4	2133.0	2100.7	2077.8	2050.8	1913.5
30°	2313.4	2297.3	2298.6	2295.9	2256.9	2220.5	2208.4	2151.8	2123.6	2134.3	1988.9
32.5°	2419.8	2384.8	2414.4	2401.0	2328.2	2317.5	2308.0	2236.7	2242.1	2291.9	2102.0
35°	2518.1	2506.0	2530.2	2506.0	2457.5	2454.8	2445.4	2383.5	2413.1	2484.4	2295.9
37.5°	2608.3	2612.4	2642.0	2629.9	2633.9	2636.6	2631.2	2565.2	2650.1	2810.3	2522.1
40°	2691.8	2686.4	2759.1	2796.9	2804.9	2834.6	2834.6	2818.4	2949.0	3129.5	2835.9
42.5°	2780.7	2794.2	2888.4	2951.7	3028.5	3054.0	3089.1	3097.1	3299.1	3505.2	3156.4
45°	2926.1	2903.2	3023.1	3172.5	3239.9	3330.1	3384.0	3429.7	3673.5	3956.3	3476.9
47.5°	3110.6	3064.8	3169.9	3386.7	3542.9	3616.9	3713.9	3774.5	4012.8	4305.0	3779.9
50°	3315.3	3268.2	3319.3	3618.3	3800.1	3934.7	4058.6	4135.4	4423.5	4695.5	4000.7
52.5°	3546.9	3503.8	3511.9	3859.3	4127.3	4225.6	4388.5	4503.0	4789.8	4931.2	4078.8
55°	3793.3	3782.5	3757.0	4095.0	4414.1	4634.9	4733.2	4870.6	5165.5	5059.1	4163.6
57.5°	4041.1	4007.4	4043.8	4407.4	4874.6	5006.6	5142.6	5224.7	5374.2	5170.9	4131.3
60°	4274.1	4276.7	4327.9	4746.7	5266.5	5453.7	5576.2	5526.4	5588.3	5219.4	4057.3
62.5°	4470.7	4465.3	4594.5	5127.8	5784.9	5911.5	6003.1	5780.9	5688.0	5266.5	3928.0
65°	4647.1	4707.7	4911.0	5581.6	6272.4	6417.8	6362.6	6021.9	5784.9	5127.8	3564.4
67.5°	4780.4	4870.6	5223.4	6008.5	6719.4	6821.8	6745.0	6205.1	5670.5	4583.8	2903.2
70°	4858.5	4950.0	5446.9	6363.9	7076.3	7150.4	6969.9	6063.7	5002.6	3319.3	1811.2
71°	4834.2	4946.0	5490.0	6401.7	7161.1	7216.3	6936.2	5802.4	4498.9	2779.3	1321.0
72.5°	4614.7	4719.8	5310.9	6374.7	7058.8	7025.1	6673.7	5174.9	3541.5	1772.1	682.7
75°	3390.7	3503.8	4558.2	5514.3	6300.7	6069.0	5401.1	3631.7	1847.5	542.7	199.3
77.5°	1688.6	1707.5	2829.2	4003.4	4621.5	4391.2	3619.6	2025.3	690.8	160.2	99.6
80°	778.3	783.7	1061.1	2073.7	2794.2	2629.9	2028.0	999.2	312.4	84.8	78.1
82.5°	530.6	538.6	639.6	859.1	1213.3	1023.4	821.4	639.6	179.1	51.2	76.8
85°	97.0	88.9	358.2	455.1	468.6	317.8	284.1	553.4	67.3	29.6	67.3
87.5°	0.0	1.3	49.8	185.8	167.0	74.1	97.0	134.7	6.7	9.4	12.1
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°	1786.9	1786.9	1786.9	1786.9	1786.9	1786.9	1786.9	1786.9	1786.9	1786.9	1786.9
2.5°	1784.2	1769.4	1719.6	1664.4	1614.6	1575.5	1525.7	1502.8	1466.4	1446.2	1444.9
5°	1758.6	1718.2	1632.1	1539.1	1435.5	1349.3	1253.7	1199.8	1137.9	1119.0	1115.0
7.5°	1715.5	1657.6	1531.1	1400.4	1241.5	1089.4	972.2	847.0	770.2	737.9	725.8
10°	1688.6	1618.6	1446.2	1251.0	1028.8	814.7	650.4	517.1	447.1	413.4	405.3
12.5°	1688.6	1613.2	1377.6	1108.2	813.3	557.5	402.6	325.9	303.0	294.9	294.9
15°	1684.6	1602.4	1311.6	961.5	601.9	374.3	300.3	284.1	281.4	280.1	278.7
17.5°	1704.8	1583.6	1244.2	803.9	425.5	294.9	276.0	273.4	270.7	270.7	268.0
20°	1719.6	1572.8	1163.4	636.9	317.8	273.4	265.3	261.2	259.9	258.5	261.2
22.5°	1707.5	1556.6	1063.8	476.7	277.4	259.9	254.5	250.5	247.8	247.8	249.1
25°	1730.4	1541.8	964.2	359.5	259.9	247.8	242.4	239.7	238.3	237.0	234.3
27.5°	1761.3	1548.6	845.7	289.5	245.1	235.7	230.3	227.6	226.2	223.5	226.2
30°	1799.0	1547.2	715.0	253.2	231.6	222.2	216.8	215.5	212.8	211.4	212.8
32.5°	1863.7	1582.2	580.4	234.3	216.8	208.7	203.3	202.0	200.6	199.3	197.9
35°	2002.4	1625.3	453.8	219.5	203.3	193.9	189.9	187.2	185.8	184.5	183.1
37.5°	2173.4	1720.9	346.1	206.0	189.9	180.4	176.4	175.1	169.7	168.3	167.0
40°	2387.5	1823.3	266.6	191.2	177.7	168.3	164.3	160.2	153.5	150.8	148.1
42.5°	2654.1	1922.9	219.5	177.7	164.3	157.6	150.8	144.1	138.7	133.3	130.6
45°	2920.7	2038.7	192.6	165.6	153.5	145.4	140.0	130.6	121.2	113.1	111.8
47.5°	3142.9	2080.5	176.4	152.2	142.7	136.0	127.9	115.8	102.3	94.3	92.9
50°	3308.6	2056.2	160.2	138.7	130.6	123.9	113.1	98.3	84.8	76.8	74.1
52.5°	3340.9	1949.9	145.4	127.9	118.5	110.4	98.3	82.1	67.3	59.2	57.9
55°	3318.0	1773.4	133.3	118.5	107.7	95.6	82.1	66.0	52.5	44.4	43.1
57.5°	3270.8	1564.7	119.8	106.4	94.3	82.1	67.3	53.9	39.1	31.0	31.0
60°	3110.6	1280.6	106.4	92.9	80.8	70.0	55.2	39.1	26.9	20.2	18.9
62.5°	2887.1	984.4	92.9	79.4	70.0	57.9	43.1	28.3	16.2	10.8	10.8
65°	2479.1	689.5	78.1	66.0	57.9	47.1	32.3	17.5	9.4	4.0	4.0
67.5°	1883.9	426.9	64.6	55.2	49.8	37.7	22.9	10.8	4.0	1.3	0.0
70°	1081.3	222.2	51.2	44.4	39.1	28.3	16.2	5.4	2.7	0.0	0.0
71°	755.4	164.3	45.8	39.1	35.0	25.6	13.5	4.0	1.3	0.0	0.0
72.5°	378.4	109.1	39.1	32.3	28.3	20.2	10.8	4.0	1.3	0.0	0.0
75°	134.7	70.0	26.9	21.5	20.2	14.8	6.7	2.7	1.3	0.0	0.0
77.5°	92.9	56.6	18.9	13.5	13.5	9.4	4.0	1.3	1.3	0.0	0.0
80°	84.8	31.0	12.1	8.1	6.7	5.4	2.7	1.3	0.0	0.0	0.0
82.5°	84.8	22.9	6.7	5.4	4.0	2.7	1.3	0.0	0.0	0.0	0.0
85°	59.2	12.1	4.0	4.0	2.7	1.3	0.0	0.0	0.0	0.0	0.0
87.5°	9.4	4.0	2.7	1.3	1.3	0.0	0.0	0.0	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)