

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: P484743

Luminaire Tested: **IFLD-S-SA2B-735-U-SL4-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484743
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2B-735-U-SL4-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens with House Side Shield
Light Source: (32) 3500K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

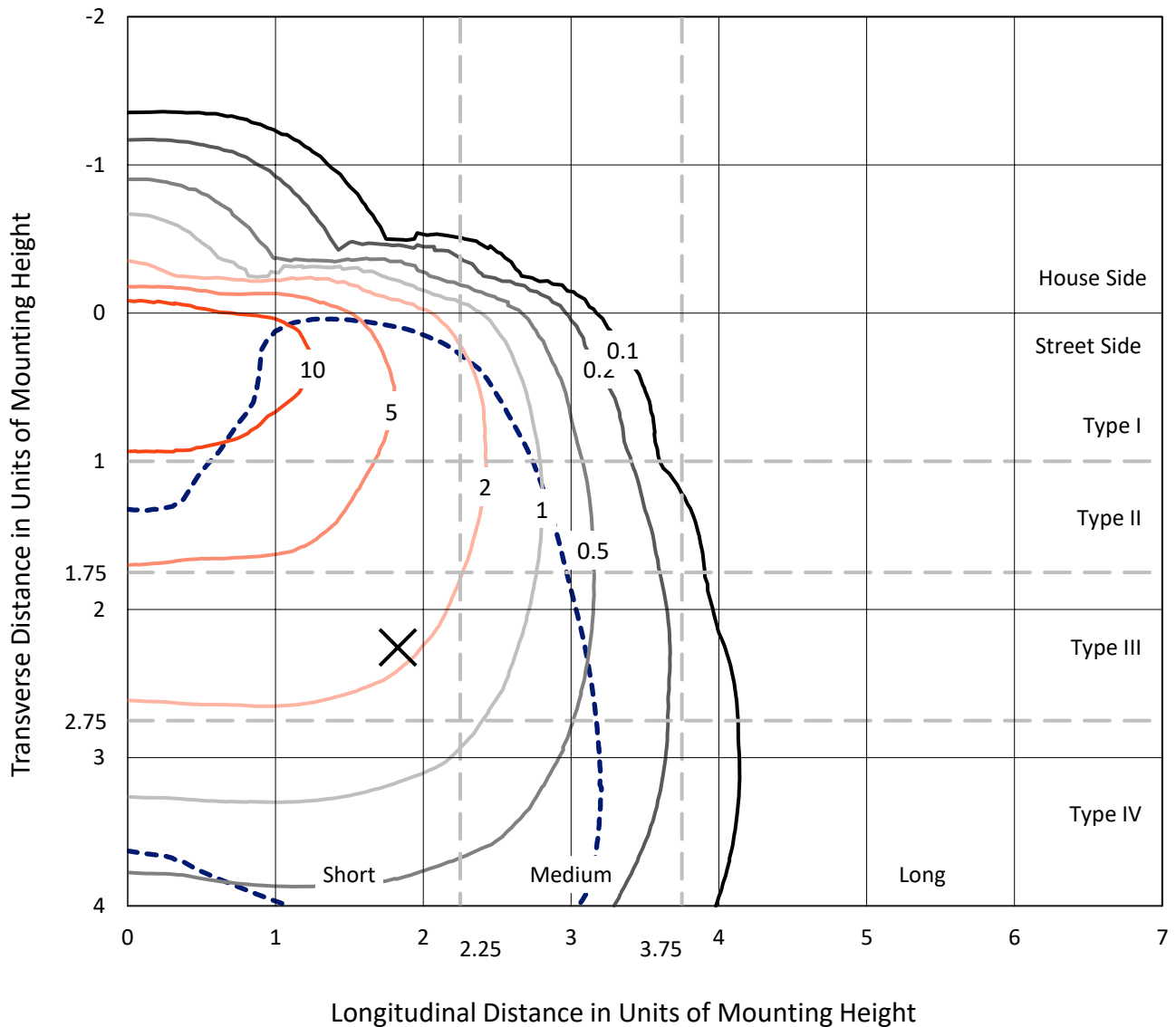
Lumens per Lamp: N/A
Luminaire Lumens: 9303.2 lumens
Efficiency: N/A
Efficacy: 112.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 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

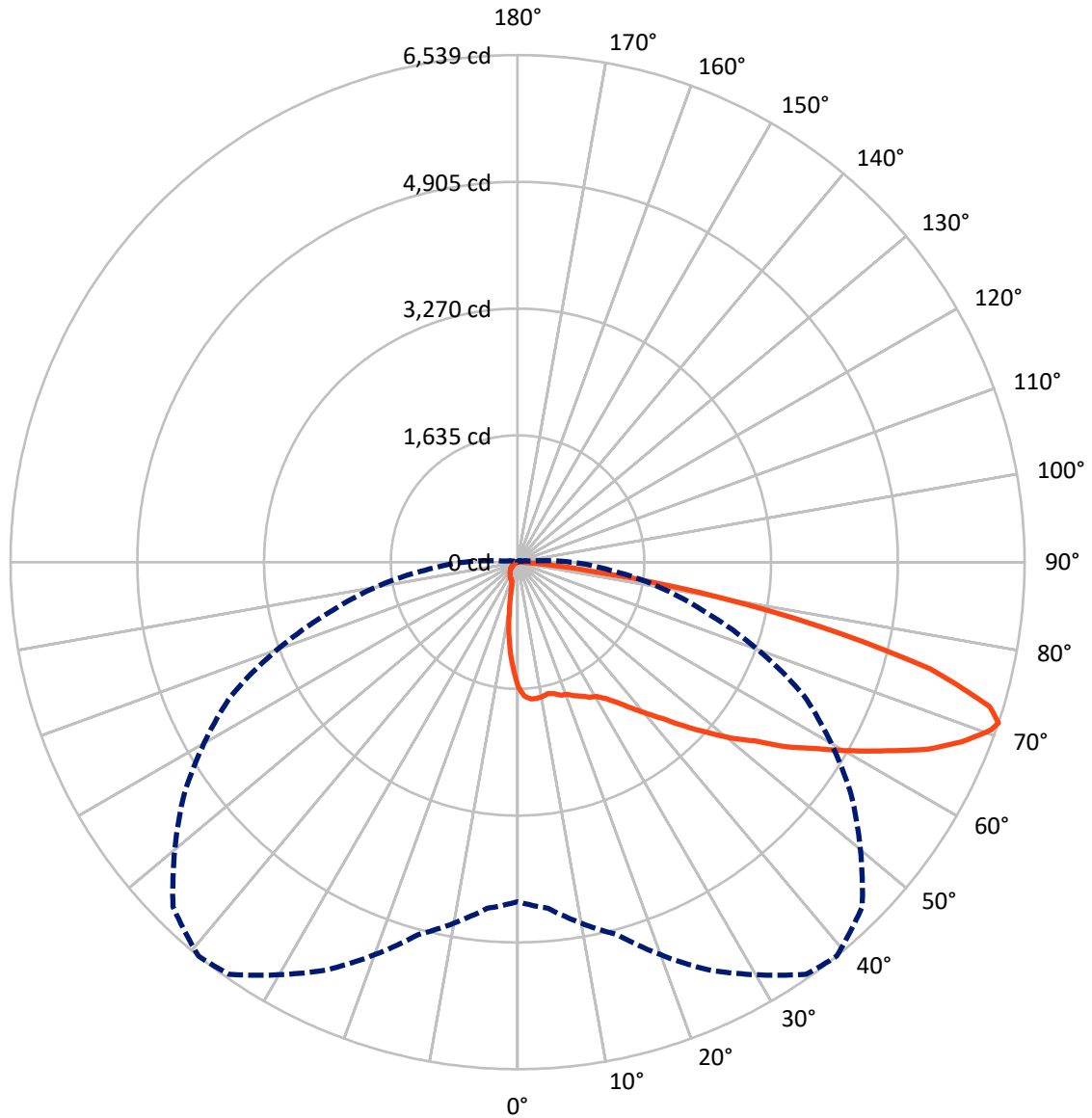
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 17.5 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	700.4	0.0	700.4
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	8602.8	0.0	8602.8
	% Fixture	92.5	0.0	92.5
Total	Lumens	9303.2	0.0	9303.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.4	1.5
10°-20°	333.2	3.6
20°-30°	534.9	5.8
30°-40°	818.9	8.8
40°-50°	1314.4	14.1
50°-60°	1930.7	20.8
60°-70°	2431.6	26.1
70°-80°	1622.8	17.4
80°-90°	181.3	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°	9303.2	100.0
0°-180°	9303.2	100.0

Coefficient of Utilization



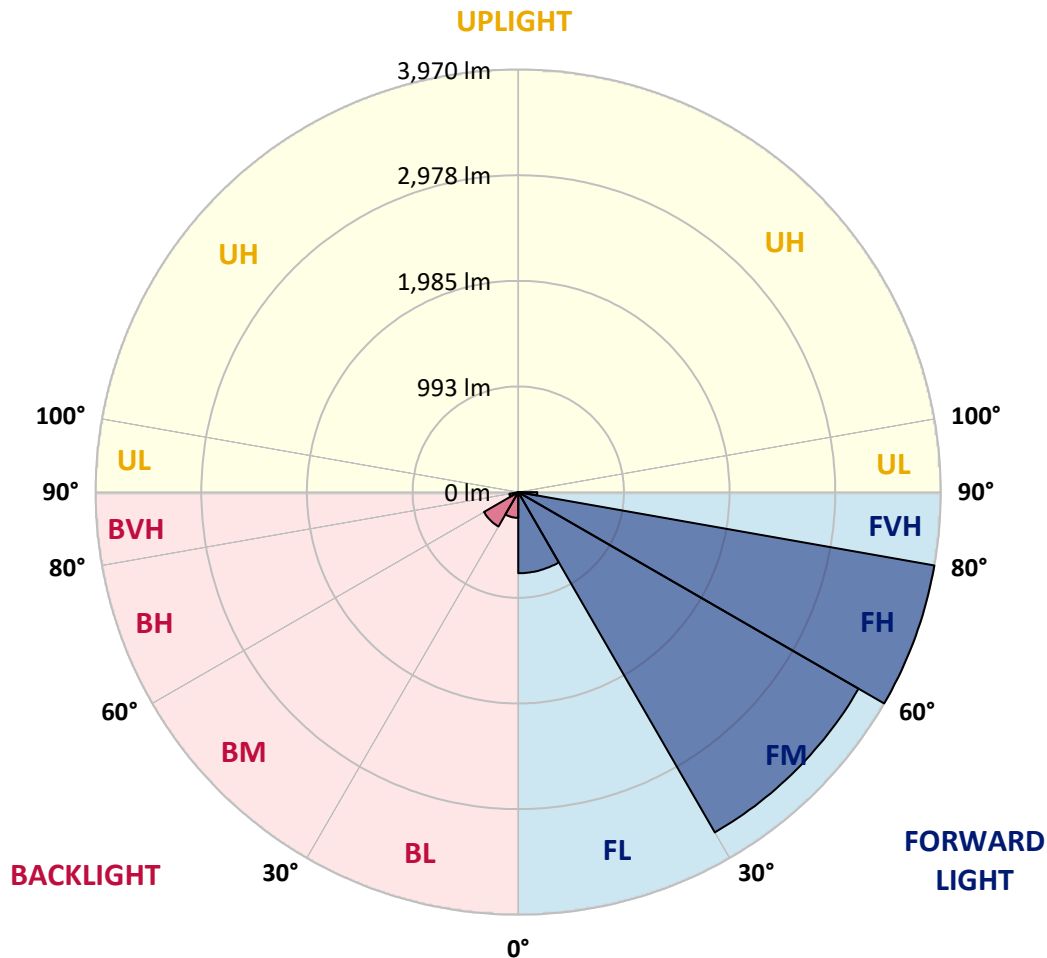
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	761.7	8.2			
FM (30°-60°)	3691.6	39.7			
FH (60°-80°)	3970.1	42.7			G2/5000
FVH (80°-90°)	179.4	1.9			G2/225
BL (0°-30°)	241.8	2.6	B1/500		
BM (30°-60°)	372.3	4.0	B1/1000		
BH (60°-80°)	84.3	0.9	B0/110		G0/110
BVH (80°-90°)	2.0	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°	1619.3	1619.3	1619.3	1619.3	1619.3	1619.3	1619.3	1619.3	1619.3	1619.3	1619.3
2.5°	1745.0	1762.1	1745.0	1737.6	1730.3	1731.5	1712.0	1715.7	1692.5	1662.0	1637.6
5°	1799.9	1823.1	1804.8	1796.2	1795.0	1771.8	1762.1	1738.9	1710.8	1663.2	1633.9
7.5°	1795.0	1790.1	1798.7	1791.3	1775.5	1775.5	1764.5	1731.5	1703.5	1649.8	1599.8
10°	1758.4	1773.0	1765.7	1757.2	1760.8	1762.1	1741.3	1718.1	1709.6	1655.9	1574.1
12.5°	1754.7	1730.3	1757.2	1758.4	1742.5	1741.3	1738.9	1732.8	1705.9	1657.1	1580.2
15°	1742.5	1732.8	1759.6	1760.8	1764.5	1760.8	1764.5	1759.6	1732.8	1704.7	1607.1
17.5°	1752.3	1741.3	1779.1	1797.4	1788.9	1806.0	1799.9	1777.9	1754.7	1721.8	1632.7
20°	1754.7	1770.6	1812.1	1819.4	1846.2	1818.2	1817.0	1793.8	1779.1	1743.7	1648.6
22.5°	1799.9	1807.2	1858.5	1874.3	1875.5	1871.9	1841.4	1814.5	1808.4	1764.5	1652.2
25°	1868.2	1893.8	1917.0	1926.8	1930.4	1913.4	1881.6	1847.5	1832.8	1804.8	1690.1
27.5°	1989.0	1973.2	1993.9	2008.5	1967.1	1973.2	1932.9	1903.6	1882.9	1858.5	1734.0
30°	2096.4	2081.8	2083.0	2080.5	2045.2	2012.2	2001.2	1950.0	1924.3	1934.1	1802.3
32.5°	2192.8	2161.1	2187.9	2175.7	2109.8	2100.1	2091.5	2026.8	2031.7	2076.9	1904.8
35°	2281.9	2270.9	2292.9	2270.9	2227.0	2224.5	2216.0	2159.9	2186.7	2251.4	2080.5
37.5°	2363.6	2367.3	2394.1	2383.2	2386.8	2389.3	2384.4	2324.6	2401.5	2546.7	2285.5
40°	2439.3	2434.4	2500.3	2534.5	2541.8	2568.6	2568.6	2554.0	2672.4	2835.9	2569.9
42.5°	2519.8	2532.0	2617.5	2674.8	2744.4	2767.5	2799.3	2806.6	2989.6	3176.3	2860.3
45°	2651.6	2630.9	2739.5	2874.9	2935.9	3017.7	3066.5	3108.0	3328.9	3585.1	3150.7
47.5°	2818.8	2777.3	2872.5	3068.9	3210.5	3277.6	3365.5	3420.4	3636.4	3901.2	3425.3
50°	3004.3	2961.6	3007.9	3278.8	3443.6	3565.6	3677.9	3747.4	4008.5	4255.0	3625.4
52.5°	3214.2	3175.1	3182.4	3497.3	3740.1	3829.2	3976.8	4080.5	4340.5	4468.6	3696.2
55°	3437.5	3427.7	3404.5	3710.8	4000.0	4200.1	4289.2	4413.7	4680.9	4584.5	3773.0
57.5°	3662.0	3631.5	3664.4	3993.9	4417.3	4536.9	4660.2	4734.6	4870.0	4685.8	3743.7
60°	3873.1	3875.5	3921.9	4301.4	4772.4	4942.0	5053.1	5007.9	5064.1	4729.7	3676.6
62.5°	4051.3	4046.4	4163.5	4646.7	5242.2	5356.9	5439.9	5238.6	5154.4	4772.4	3559.5
65°	4211.1	4266.0	4450.3	5058.0	5684.0	5815.7	5765.7	5457.0	5242.2	4646.7	3230.0
67.5°	4331.9	4413.7	4733.4	5444.8	6089.1	6181.8	6112.3	5622.9	5138.5	4153.8	2630.9
70°	4402.7	4485.7	4935.9	5766.9	6412.4	6479.6	6316.0	5494.8	4533.3	3007.9	1641.2
71°	4380.7	4482.0	4975.0	5801.1	6489.3	6539.4	6285.5	5258.1	4076.9	2518.6	1197.1
72.5°	4181.8	4277.0	4812.7	5776.7	6396.6	6366.1	6047.6	4689.4	3209.3	1605.9	618.7
75°	3072.6	3175.1	4130.6	4997.0	5709.6	5499.7	4894.4	3291.0	1674.2	491.8	180.6
77.5°	1530.2	1547.3	2563.8	3627.8	4187.9	3979.3	3280.0	1835.3	626.0	145.2	90.3
80°	705.3	710.2	961.6	1879.2	2532.0	2383.2	1837.7	905.4	283.1	76.9	70.8
82.5°	480.8	488.1	579.6	778.5	1099.5	927.4	744.4	579.6	162.3	46.4	69.6
85°	87.9	80.5	324.6	412.4	424.6	288.0	257.5	501.5	61.0	26.8	61.0
87.5°	0.0	1.2	45.1	168.4	151.3	67.1	87.9	122.0	6.1	8.5	11.0
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°	1619.3	1619.3	1619.3	1619.3	1619.3	1619.3	1619.3	1619.3	1619.3	1619.3	1619.3
2.5°	1616.8	1603.4	1558.3	1508.2	1463.1	1427.7	1382.6	1361.8	1328.9	1310.6	1309.3
5°	1593.7	1557.0	1479.0	1394.8	1300.8	1222.7	1136.1	1087.2	1031.1	1014.0	1010.4
7.5°	1554.6	1502.1	1387.4	1269.1	1125.1	987.2	881.0	767.5	698.0	668.7	657.7
10°	1530.2	1466.7	1310.6	1133.6	932.3	738.3	589.4	468.6	405.1	374.6	367.3
12.5°	1530.2	1461.9	1248.3	1004.3	737.0	505.2	364.9	295.3	274.6	267.2	267.2
15°	1526.5	1452.1	1188.5	871.3	545.5	339.2	272.1	257.5	255.0	253.8	252.6
17.5°	1544.8	1435.0	1127.5	728.5	385.6	267.2	250.2	247.7	245.3	245.3	242.8
20°	1558.3	1425.3	1054.3	577.2	288.0	247.7	240.4	236.7	235.5	234.3	236.7
22.5°	1547.3	1410.6	964.0	432.0	251.4	235.5	230.6	227.0	224.5	224.5	225.7
25°	1568.0	1397.2	873.7	325.8	235.5	224.5	219.6	217.2	216.0	214.8	212.3
27.5°	1596.1	1403.3	766.3	262.4	222.1	213.5	208.7	206.2	205.0	202.6	205.0
30°	1630.3	1402.1	648.0	229.4	209.9	201.3	196.5	195.2	192.8	191.6	192.8
32.5°	1688.8	1433.8	525.9	212.3	196.5	189.1	184.3	183.0	181.8	180.6	179.4
35°	1814.5	1472.8	411.2	198.9	184.3	175.7	172.1	169.6	168.4	167.2	166.0
37.5°	1969.5	1559.5	313.6	186.7	172.1	163.5	159.9	158.6	153.8	152.5	151.3
40°	2163.5	1652.2	241.6	173.3	161.1	152.5	148.9	145.2	139.1	136.7	134.2
42.5°	2405.1	1742.5	198.9	161.1	148.9	142.8	136.7	130.6	125.7	120.8	118.4
45°	2646.7	1847.5	174.5	150.1	139.1	131.8	126.9	118.4	109.8	102.5	101.3
47.5°	2848.1	1885.3	159.9	137.9	129.3	123.2	115.9	104.9	92.7	85.4	84.2
50°	2998.2	1863.3	145.2	125.7	118.4	112.3	102.5	89.1	76.9	69.6	67.1
52.5°	3027.5	1766.9	131.8	115.9	107.4	100.1	89.1	74.4	61.0	53.7	52.5
55°	3006.7	1607.1	120.8	107.4	97.6	86.6	74.4	59.8	47.6	40.3	39.0
57.5°	2964.0	1417.9	108.6	96.4	85.4	74.4	61.0	48.8	35.4	28.1	28.1
60°	2818.8	1160.5	96.4	84.2	73.2	63.5	50.0	35.4	24.4	18.3	17.1
62.5°	2616.2	892.0	84.2	72.0	63.5	52.5	39.0	25.6	14.6	9.8	9.8
65°	2246.5	624.8	70.8	59.8	52.5	42.7	29.3	15.9	8.5	3.7	3.7
67.5°	1707.1	386.8	58.6	50.0	45.1	34.2	20.7	9.8	3.7	1.2	0.0
70°	979.9	201.3	46.4	40.3	35.4	25.6	14.6	4.9	2.4	0.0	0.0
71°	684.6	148.9	41.5	35.4	31.7	23.2	12.2	3.7	1.2	0.0	0.0
72.5°	342.9	98.8	35.4	29.3	25.6	18.3	9.8	3.7	1.2	0.0	0.0
75°	122.0	63.5	24.4	19.5	18.3	13.4	6.1	2.4	1.2	0.0	0.0
77.5°	84.2	51.3	17.1	12.2	12.2	8.5	3.7	1.2	1.2	0.0	0.0
80°	76.9	28.1	11.0	7.3	6.1	4.9	2.4	1.2	0.0	0.0	0.0
82.5°	76.9	20.7	6.1	4.9	3.7	2.4	1.2	0.0	0.0	0.0	0.0
85°	53.7	11.0	3.7	3.7	2.4	1.2	0.0	0.0	0.0	0.0	0.0
87.5°	8.5	3.7	2.4	1.2	1.2	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)