

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: P484666

Luminaire Tested: **IFLD-S-SA2C-727-U-SL4-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484666
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2C-727-U-SL4-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens with House Side Shield
Light Source: (32) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

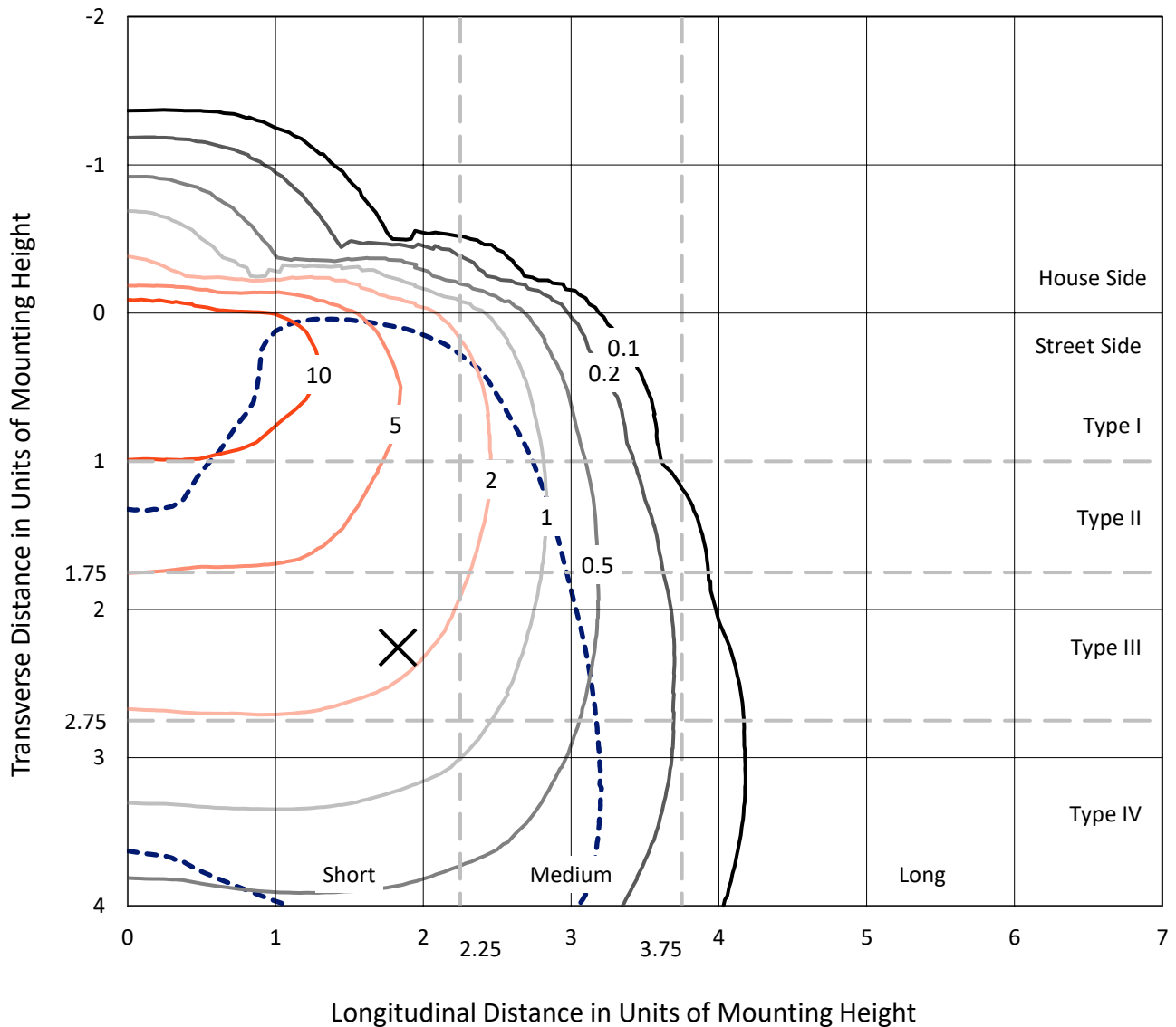
Lumens per Lamp: N/A
Luminaire Lumens: 9819.8 lumens
Efficiency: N/A
Efficacy: 90.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 108.2
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

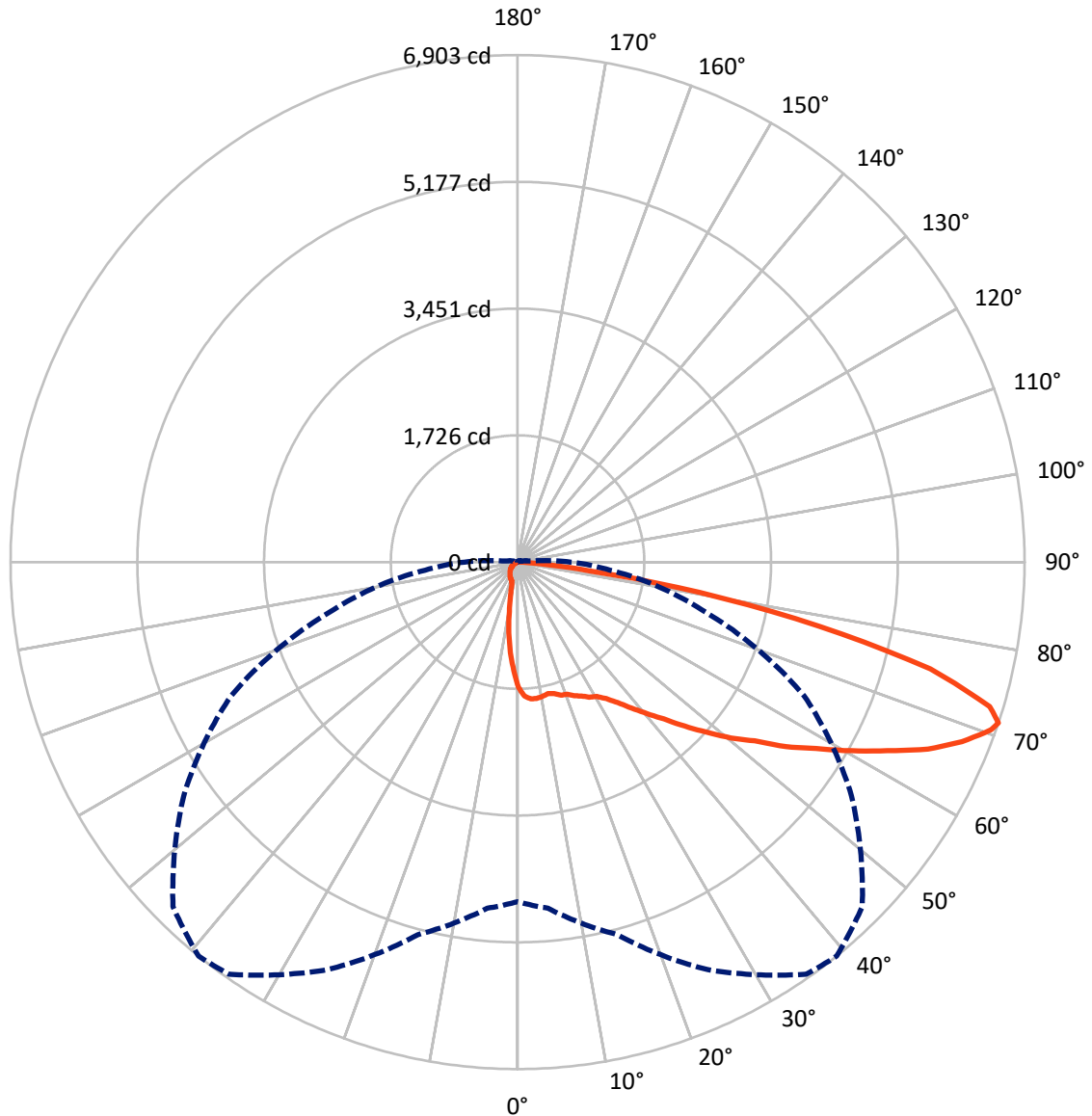
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 18.5 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	739.3	0.0	739.3
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	9080.5	0.0	9080.5
	% Fixture	92.5	0.0	92.5
Total	Lumens	9819.8	0.0	9819.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.9	1.5
10°-20°	351.7	3.6
20°-30°	564.6	5.8
30°-40°	864.3	8.8
40°-50°	1387.4	14.1
50°-60°	2037.9	20.8
60°-70°	2566.6	26.1
70°-80°	1712.9	17.4
80°-90°	191.4	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°	9819.8	100.0
0°-180°	9819.8	100.0

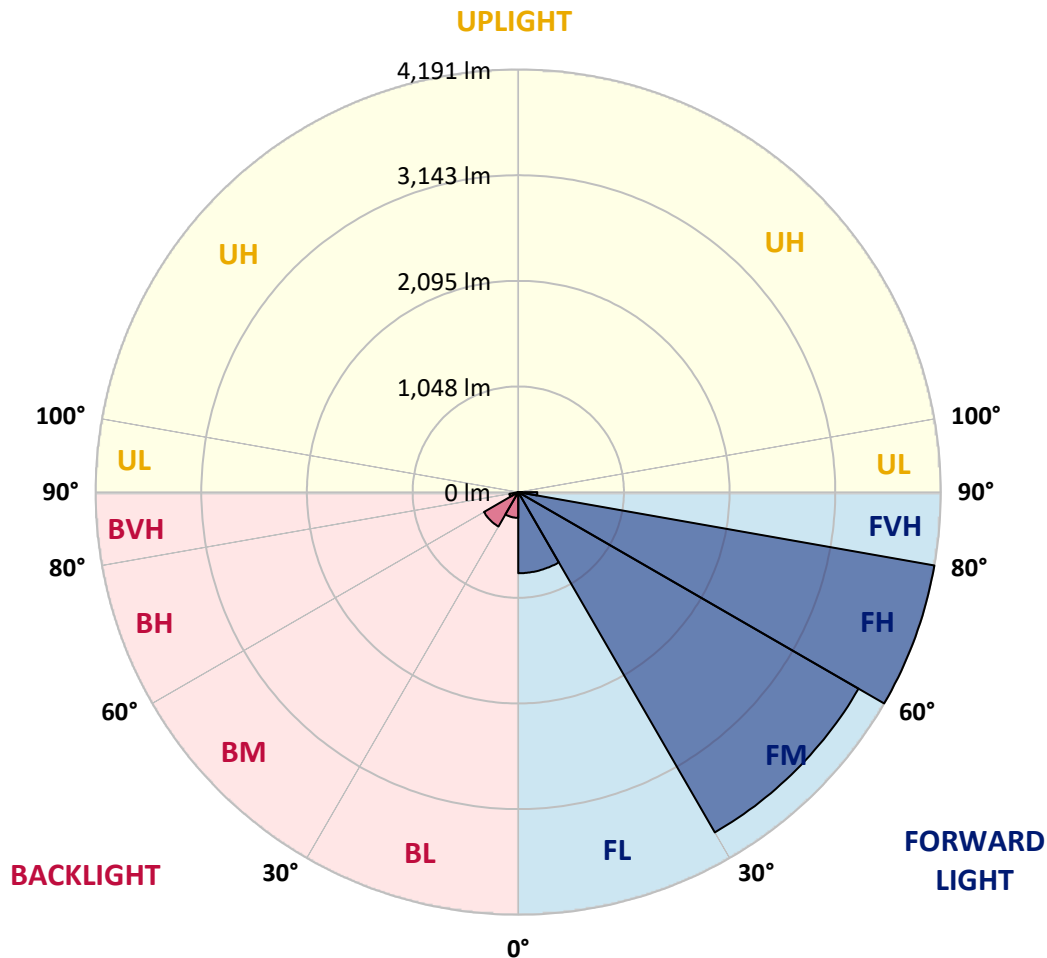


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	804.0	8.2			
FM (30°-60°)	3896.6	39.7			
FH (60°-80°)	4190.5	42.7			G2/5000
FVH (80°-90°)	189.3	1.9			G2/225
BL (0°-30°)	255.2	2.6	B1/500		
BM (30°-60°)	393.0	4.0	B1/1000		
BH (60°-80°)	89.0	0.9	B0/110		G0/110
BVH (80°-90°)	2.1	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°	1709.2	1709.2	1709.2	1709.2	1709.2	1709.2	1709.2	1709.2	1709.2	1709.2	1709.2
2.5°	1841.9	1859.9	1841.9	1834.1	1826.4	1827.7	1807.1	1810.9	1786.5	1754.3	1728.5
5°	1899.8	1924.3	1905.0	1896.0	1894.7	1870.2	1859.9	1835.4	1805.8	1755.6	1724.7
7.5°	1894.7	1889.5	1898.5	1890.8	1874.1	1874.1	1862.5	1827.7	1798.1	1741.4	1688.6
10°	1856.0	1871.5	1863.8	1854.7	1858.6	1859.9	1838.0	1813.5	1804.5	1747.8	1661.5
12.5°	1852.2	1826.4	1854.7	1856.0	1839.3	1838.0	1835.4	1829.0	1800.6	1749.1	1668.0
15°	1839.3	1829.0	1857.3	1858.6	1862.5	1858.6	1862.5	1857.3	1829.0	1799.4	1696.3
17.5°	1849.6	1838.0	1877.9	1897.2	1888.2	1906.3	1899.8	1876.6	1852.2	1817.4	1723.4
20°	1852.2	1868.9	1912.7	1920.4	1948.8	1919.1	1917.9	1893.4	1877.9	1840.6	1740.1
22.5°	1899.8	1907.6	1961.6	1978.4	1979.7	1975.8	1943.6	1915.3	1908.8	1862.5	1744.0
25°	1972.0	1999.0	2023.5	2033.8	2037.6	2019.6	1986.1	1950.1	1934.6	1905.0	1783.9
27.5°	2099.5	2082.7	2104.6	2120.1	2076.3	2082.7	2040.2	2009.3	1987.4	1961.6	1830.3
30°	2212.8	2197.4	2198.6	2196.1	2158.7	2123.9	2112.3	2058.2	2031.2	2041.5	1902.4
32.5°	2314.6	2281.1	2309.4	2296.5	2227.0	2216.7	2207.7	2139.4	2144.5	2192.2	2010.6
35°	2408.6	2397.0	2420.2	2397.0	2350.6	2348.1	2339.0	2279.8	2308.1	2376.4	2196.1
37.5°	2494.9	2498.7	2527.1	2515.5	2519.4	2521.9	2516.8	2453.7	2534.8	2688.1	2412.5
40°	2574.7	2569.6	2639.1	2675.2	2682.9	2711.3	2711.3	2695.8	2820.8	2993.3	2712.6
42.5°	2659.8	2672.6	2762.8	2823.3	2896.7	2921.2	2954.7	2962.4	3155.6	3352.7	3019.1
45°	2798.9	2777.0	2891.6	3034.6	3099.0	3185.3	3236.8	3280.6	3513.7	3784.2	3325.7
47.5°	2975.3	2931.5	3032.0	3239.4	3388.8	3459.6	3552.3	3610.3	3838.3	4117.8	3615.5
50°	3171.1	3126.0	3175.0	3460.9	3634.8	3763.6	3882.1	3955.5	4231.1	4491.3	3826.7
52.5°	3392.6	3351.4	3359.1	3691.5	3947.8	4041.8	4197.6	4307.1	4581.5	4716.7	3901.4
55°	3628.3	3618.0	3593.6	3916.9	4222.1	4433.3	4527.4	4658.8	4940.8	4839.1	3982.5
57.5°	3865.3	3833.1	3867.9	4215.7	4662.6	4788.8	4918.9	4997.5	5140.5	4946.0	3951.6
60°	4088.2	4090.7	4139.7	4540.3	5037.4	5216.5	5333.7	5286.0	5345.3	4992.3	3880.8
62.5°	4276.2	4271.1	4394.7	4904.8	5533.3	5654.4	5742.0	5529.4	5440.6	5037.4	3757.1
65°	4444.9	4502.9	4697.4	5338.8	5999.6	6138.7	6085.9	5760.0	5533.3	4904.8	3409.4
67.5°	4572.5	4658.8	4996.2	5747.1	6427.2	6525.1	6451.7	5935.2	5423.8	4384.4	2777.0
70°	4647.2	4734.7	5210.0	6087.2	6768.5	6839.4	6666.8	5799.9	4785.0	3175.0	1732.4
71°	4624.0	4730.9	5251.2	6123.2	6849.7	6902.5	6634.6	5550.1	4303.3	2658.5	1263.5
72.5°	4414.0	4514.5	5079.9	6097.5	6751.8	6719.6	6383.4	4949.8	3387.5	1695.0	653.0
75°	3243.2	3351.4	4359.9	5274.4	6026.6	5805.1	5166.2	3473.8	1767.2	519.1	190.6
77.5°	1615.2	1633.2	2706.1	3829.3	4420.5	4200.2	3462.2	1937.2	660.8	153.3	95.3
80°	744.5	749.6	1015.0	1983.5	2672.6	2515.5	1939.8	955.7	298.8	81.1	74.7
82.5°	507.5	515.2	611.8	821.8	1160.5	978.9	785.7	611.8	171.3	48.9	73.4
85°	92.7	85.0	342.6	435.3	448.2	304.0	271.8	529.4	64.4	28.3	64.4
87.5°	0.0	1.3	47.7	177.7	159.7	70.8	92.7	128.8	6.4	9.0	11.6
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°	1709.2	1709.2	1709.2	1709.2	1709.2	1709.2	1709.2	1709.2	1709.2	1709.2	1709.2
2.5°	1706.6	1692.5	1644.8	1592.0	1544.3	1507.0	1459.3	1437.4	1402.6	1383.3	1382.0
5°	1682.1	1643.5	1561.1	1472.2	1373.0	1290.6	1199.1	1147.6	1088.4	1070.3	1066.5
7.5°	1640.9	1585.5	1464.5	1339.5	1187.5	1042.0	929.9	810.2	736.7	705.8	694.2
10°	1615.2	1548.2	1383.3	1196.6	984.0	779.2	622.1	494.6	427.6	395.4	387.7
12.5°	1615.2	1543.0	1317.6	1060.0	778.0	533.2	385.1	311.7	289.8	282.1	282.1
15°	1611.3	1532.7	1254.5	919.6	575.7	358.1	287.2	271.8	269.2	267.9	266.6
17.5°	1630.6	1514.7	1190.1	768.9	407.0	282.1	264.0	261.5	258.9	258.9	256.3
20°	1644.8	1504.4	1112.8	609.2	304.0	261.5	253.7	249.9	248.6	247.3	249.9
22.5°	1633.2	1488.9	1017.5	456.0	265.3	248.6	243.4	239.6	237.0	237.0	238.3
25°	1655.1	1474.8	922.2	343.9	248.6	237.0	231.8	229.3	228.0	226.7	224.1
27.5°	1684.7	1481.2	808.9	276.9	234.4	225.4	220.3	217.7	216.4	213.8	216.4
30°	1720.8	1479.9	683.9	242.1	221.5	212.5	207.4	206.1	203.5	202.2	203.5
32.5°	1782.6	1513.4	555.1	224.1	207.4	199.6	194.5	193.2	191.9	190.6	189.3
35°	1915.3	1554.6	434.1	209.9	194.5	185.5	181.6	179.0	177.7	176.5	175.2
37.5°	2078.9	1646.1	331.0	197.1	181.6	172.6	168.7	167.4	162.3	161.0	159.7
40°	2283.7	1744.0	255.0	182.9	170.0	161.0	157.1	153.3	146.8	144.3	141.7
42.5°	2538.7	1839.3	209.9	170.0	157.1	150.7	144.3	137.8	132.7	127.5	124.9
45°	2793.7	1950.1	184.2	158.4	146.8	139.1	134.0	124.9	115.9	108.2	106.9
47.5°	3006.2	1990.0	168.7	145.5	136.5	130.1	122.4	110.8	97.9	90.2	88.9
50°	3164.7	1966.8	153.3	132.7	124.9	118.5	108.2	94.0	81.1	73.4	70.8
52.5°	3195.6	1865.0	139.1	122.4	113.3	105.6	94.0	78.6	64.4	56.7	55.4
55°	3173.7	1696.3	127.5	113.3	103.0	91.4	78.6	63.1	50.2	42.5	41.2
57.5°	3128.6	1496.7	114.6	101.8	90.2	78.6	64.4	51.5	37.4	29.6	29.6
60°	2975.3	1224.9	101.8	88.9	77.3	67.0	52.8	37.4	25.8	19.3	18.0
62.5°	2761.5	941.5	88.9	76.0	67.0	55.4	41.2	27.0	15.5	10.3	10.3
65°	2371.2	659.5	74.7	63.1	55.4	45.1	30.9	16.7	9.0	3.9	3.9
67.5°	1801.9	408.3	61.8	52.8	47.7	36.1	21.9	10.3	3.9	1.3	0.0
70°	1034.3	212.5	48.9	42.5	37.4	27.0	15.5	5.2	2.6	0.0	0.0
71°	722.6	157.1	43.8	37.4	33.5	24.5	12.9	3.9	1.3	0.0	0.0
72.5°	361.9	104.3	37.4	30.9	27.0	19.3	10.3	3.9	1.3	0.0	0.0
75°	128.8	67.0	25.8	20.6	19.3	14.2	6.4	2.6	1.3	0.0	0.0
77.5°	88.9	54.1	18.0	12.9	12.9	9.0	3.9	1.3	1.3	0.0	0.0
80°	81.1	29.6	11.6	7.7	6.4	5.2	2.6	1.3	0.0	0.0	0.0
82.5°	81.1	21.9	6.4	5.2	3.9	2.6	1.3	0.0	0.0	0.0	0.0
85°	56.7	11.6	3.9	3.9	2.6	1.3	0.0	0.0	0.0	0.0	0.0
87.5°	9.0	3.9	2.6	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)