

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: P483847

Luminaire Tested: **IFLD-S-SA2C-722-U-SL2-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483847
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2C-722-U-SL2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens with House Side Shield
Light Source: (32) 2200K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

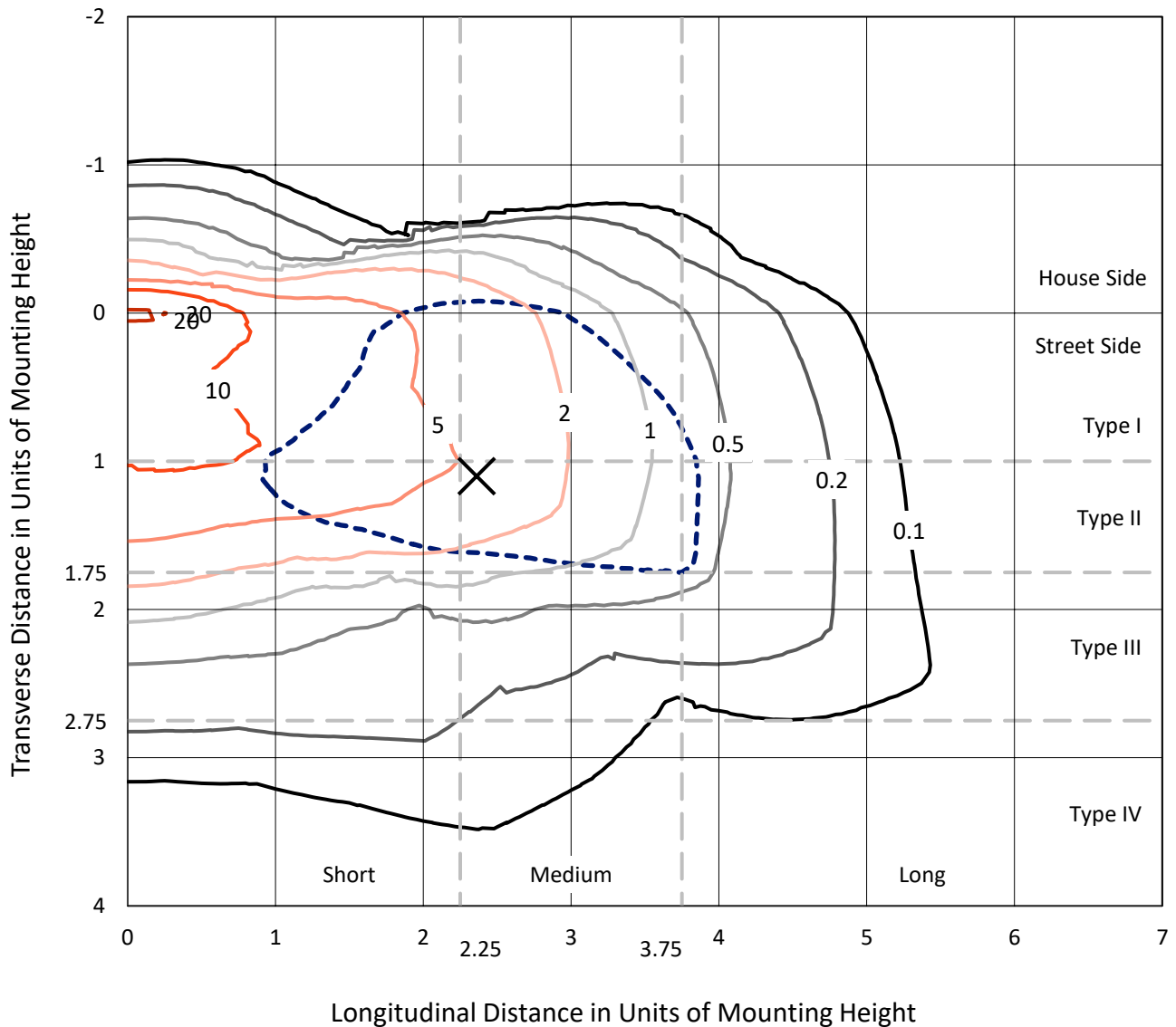
Lumens per Lamp: N/A
Luminaire Lumens: 8617 lumens
Efficiency: N/A
Efficacy: 79.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

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

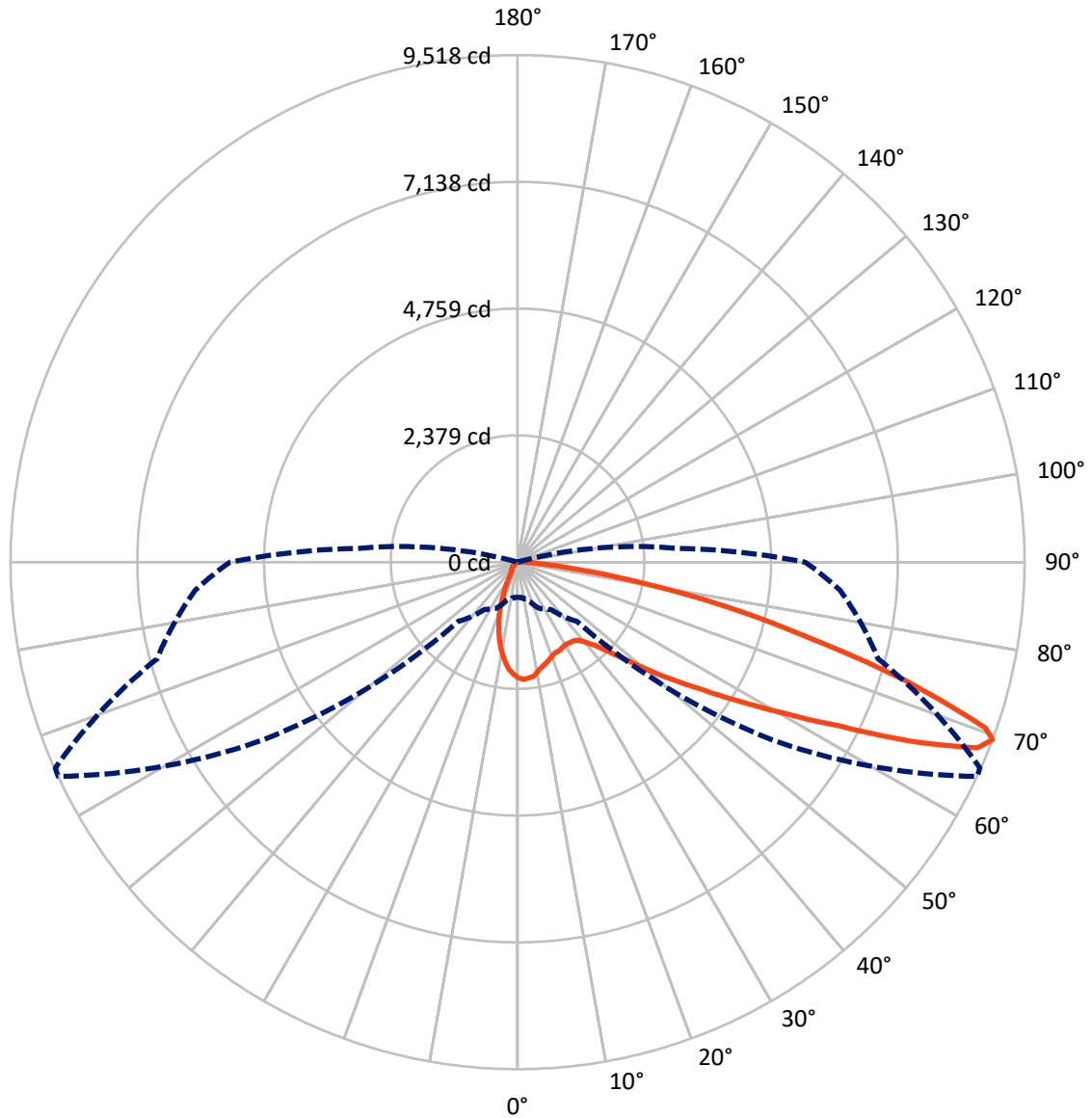
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 21.7 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1045.3	0.0	1045.3
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	7571.7	0.0	7571.7
	% Fixture	87.9	0.0	87.9
Total	Lumens	8617.0	0.0	8617.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	177.8	2.1
10°-20°	389.0	4.5
20°-30°	541.6	6.3
30°-40°	767.4	8.9
40°-50°	1209.5	14.0
50°-60°	1962.6	22.8
60°-70°	2191.8	25.4
70°-80°	1234.2	14.3
80°-90°	143.2	1.7
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°	8617.0	100.0
0°-180°	8617.0	100.0

Coefficient of Utilization

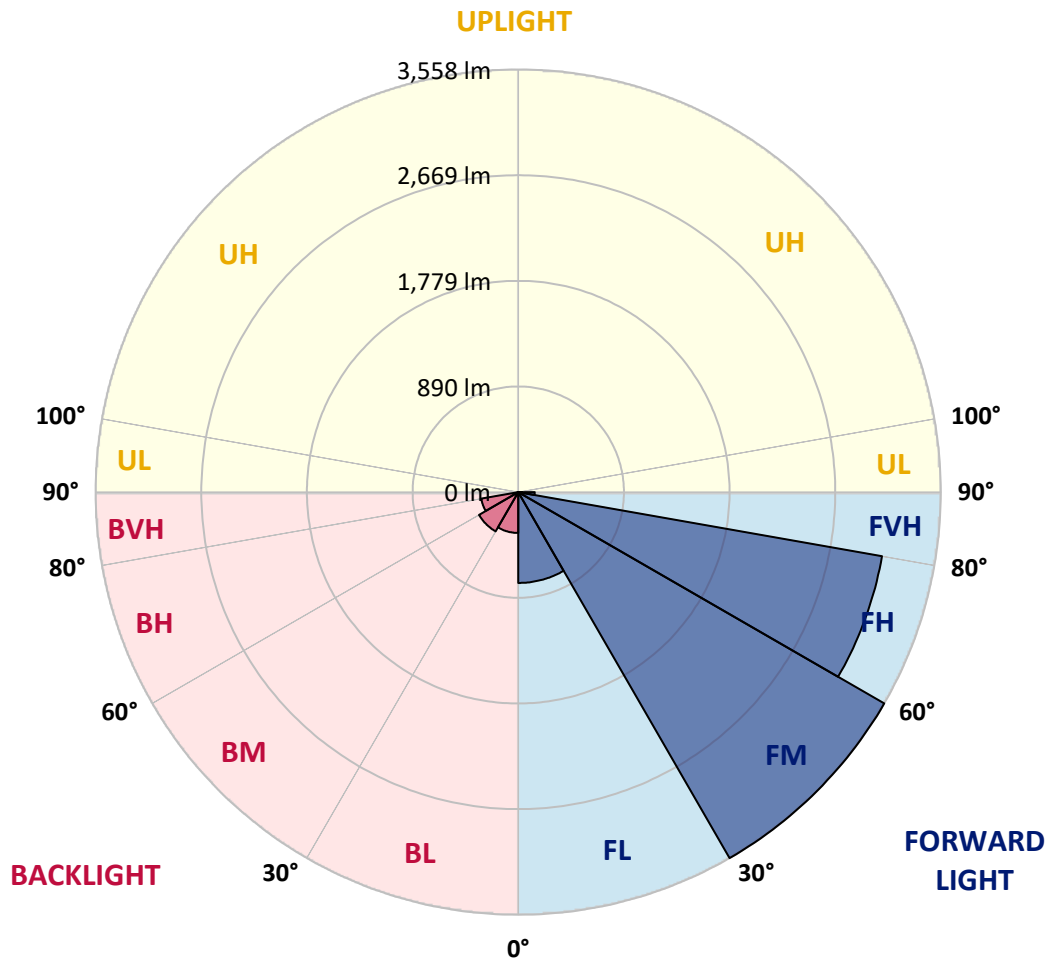


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	764.7	8.9			
FM (30°-60°)	3558.0	41.3			
FH (60°-80°)	3109.7	36.1			G2/5000
FVH (80°-90°)	139.3	1.6			G2/225
BL (0°-30°)	343.7	4.0	B1/500		
BM (30°-60°)	381.4	4.4	B1/1000		
BH (60°-80°)	316.3	3.7	B1/500		G1/500
BVH (80°-90°)	3.9	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 II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2172.6	2172.6	2172.6	2172.6	2172.6	2172.6	2172.6	2172.6	2172.6	2172.6	2172.6
2.5°	2092.3	2108.6	2113.3	2129.5	2137.7	2172.6	2192.3	2203.9	2198.1	2210.9	2212.1
5°	1943.6	1934.3	1958.7	1976.1	2013.3	2073.7	2135.4	2183.0	2205.1	2226.0	2222.5
7.5°	1784.3	1779.7	1804.1	1843.6	1877.3	1950.5	2049.3	2166.7	2162.1	2213.2	2228.3
10°	1675.0	1679.7	1687.8	1727.3	1777.3	1851.7	1974.9	2084.2	2108.6	2216.7	2246.9
12.5°	1575.1	1583.2	1598.3	1639.0	1697.1	1773.8	1893.6	2021.4	2058.6	2197.0	2257.4
15°	1542.5	1523.9	1554.1	1584.4	1644.8	1713.4	1814.5	1973.8	1990.1	2173.7	2274.8
17.5°	1515.8	1504.2	1518.1	1542.5	1606.5	1662.3	1757.6	1922.6	1952.9	2164.4	2272.5
20°	1523.9	1513.5	1519.3	1537.9	1566.9	1619.2	1707.6	1873.8	1906.4	2121.4	2269.0
22.5°	1547.2	1555.3	1544.8	1549.5	1558.8	1585.5	1680.9	1838.9	1866.8	2113.3	2288.8
25°	1651.8	1637.8	1623.9	1618.1	1563.4	1575.1	1672.7	1836.6	1856.4	2084.2	2272.5
27.5°	1761.1	1749.4	1743.6	1709.9	1635.5	1600.6	1673.9	1804.1	1830.8	2072.6	2252.8
30°	1893.6	1908.7	1885.4	1844.8	1741.3	1655.3	1686.7	1787.8	1825.0	2028.4	2240.0
32.5°	2033.1	2041.2	2052.8	2022.6	1888.9	1737.8	1725.0	1802.9	1805.2	2028.4	2210.9
35°	2191.1	2179.5	2209.7	2212.1	2094.7	1884.3	1798.3	1813.4	1837.8	2019.1	2200.4
37.5°	2327.2	2346.9	2381.8	2437.6	2316.7	2091.2	1912.2	1862.2	1872.6	2062.1	2208.6
40°	2475.9	2495.7	2574.7	2630.5	2562.0	2323.7	2085.4	1976.1	1984.2	2126.1	2250.4
42.5°	2639.8	2678.2	2772.4	2870.0	2851.4	2618.9	2308.6	2143.5	2140.0	2285.3	2336.5
45°	2861.9	2913.0	3015.3	3128.1	3144.3	2957.2	2606.1	2393.4	2405.0	2493.4	2514.3
47.5°	3171.1	3168.7	3268.7	3394.2	3488.4	3308.2	2961.8	2729.3	2728.2	2822.3	2778.2
50°	3469.8	3471.0	3497.7	3643.0	3887.1	3795.3	3402.4	3175.7	3162.9	3209.4	3138.5
52.5°	3608.1	3591.9	3572.1	3747.6	4194.0	4409.0	3960.3	3681.4	3670.9	3643.0	3624.4
55°	3462.8	3468.6	3467.5	3650.0	4355.6	5056.5	4676.4	4238.2	4220.7	4133.5	4159.1
57.5°	2996.7	2978.1	3018.8	3303.6	4170.7	5498.2	5700.5	4940.3	4894.9	4605.5	4547.4
60°	2230.7	2236.5	2270.2	2606.1	3711.6	5591.2	6680.4	5764.4	5569.1	4937.9	4857.7
62.5°	1557.6	1546.0	1558.8	1747.1	2653.8	5219.2	7343.0	6766.4	6578.1	5315.7	5269.2
65°	1114.8	1099.6	1150.8	1265.9	1593.7	3990.6	7437.1	8100.9	7932.3	5919.0	5807.4
67.5°	802.1	799.7	859.0	1068.3	1132.2	2298.1	6739.7	9309.8	9207.5	6635.1	6135.2
69°	663.7	664.9	721.9	956.7	1081.0	1569.3	5799.3	9517.8	9499.2	7004.7	6073.6
70°	578.9	583.5	649.8	890.4	1060.1	1290.3	4999.5	9313.3	9294.7	7076.8	5870.2
72.5°	356.9	360.3	447.5	713.7	1007.8	1053.1	2989.7	7619.6	7683.6	6746.6	5057.7
75°	170.9	172.0	234.8	516.1	971.8	998.5	1601.8	5622.6	5757.4	5447.1	3952.2
77.5°	90.7	90.7	112.8	274.3	787.0	939.2	950.9	3966.2	4077.7	3444.2	2246.9
80°	45.3	46.5	68.6	143.0	488.2	920.6	742.8	2365.5	2426.0	1405.4	699.8
82.5°	17.4	18.6	32.5	86.0	253.4	777.7	652.1	1163.6	1148.5	329.0	170.9
85°	2.3	2.3	11.6	51.1	108.1	342.9	538.2	485.9	469.6	72.1	82.5
87.5°	0.0	0.0	2.3	15.1	32.5	100.0	208.1	133.7	148.8	19.8	40.7
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°	2172.6	2172.6	2172.6	2172.6	2172.6	2172.6	2172.6	2172.6	2172.6	2172.6	2172.6
2.5°	2206.3	2181.9	2144.7	2108.6	2070.3	2023.8	1972.6	1954.0	1921.5	1919.1	1937.7
5°	2203.9	2164.4	2099.3	2022.6	1913.3	1830.8	1741.3	1676.2	1626.2	1593.7	1601.8
7.5°	2215.6	2167.9	2055.1	1890.1	1749.4	1585.5	1447.2	1351.9	1264.7	1221.7	1217.0
10°	2197.0	2133.0	1968.0	1736.6	1529.7	1300.7	1098.5	970.6	840.4	792.8	795.1
12.5°	2207.4	2117.9	1873.8	1578.6	1293.8	996.2	754.4	580.0	458.0	418.5	413.8
15°	2214.4	2085.4	1783.1	1389.1	1032.2	678.8	437.1	329.0	290.6	283.6	282.5
17.5°	2187.7	2045.8	1655.3	1201.9	764.9	412.7	290.6	268.5	261.5	256.9	254.6
20°	2186.5	2022.6	1544.8	1010.1	510.3	281.3	251.1	242.9	232.5	229.0	229.0
22.5°	2166.7	1973.8	1412.3	799.7	325.5	241.8	225.5	212.7	201.1	196.4	195.3
25°	2160.9	1916.8	1288.0	601.0	247.6	216.2	199.9	181.3	167.4	160.4	156.9
27.5°	2144.7	1868.0	1162.4	423.1	216.2	193.0	172.0	152.3	136.0	125.5	124.4
30°	2086.5	1816.9	1022.9	292.9	196.4	170.9	147.6	124.4	108.1	101.1	98.8
32.5°	2062.1	1769.2	870.6	225.5	179.0	151.1	124.4	103.5	90.7	83.7	82.5
35°	2033.1	1699.4	723.0	196.4	162.7	131.4	104.6	87.2	76.7	70.9	70.9
37.5°	2036.5	1643.7	584.7	177.8	145.3	112.8	89.5	74.4	65.1	59.3	59.3
40°	2026.1	1599.5	454.5	161.6	129.0	96.5	75.6	62.8	54.6	48.8	47.7
42.5°	2073.7	1587.9	342.9	147.6	112.8	82.5	65.1	53.5	45.3	38.4	38.4
45°	2154.0	1606.5	267.4	134.8	96.5	70.9	55.8	44.2	36.0	31.4	30.2
47.5°	2367.8	1679.7	209.2	124.4	82.5	61.6	46.5	36.0	29.1	24.4	23.2
50°	2678.2	1843.6	177.8	109.3	69.7	52.3	38.4	27.9	23.2	18.6	17.4
52.5°	3119.9	2119.1	161.6	96.5	58.1	43.0	30.2	22.1	17.4	13.9	12.8
55°	3601.2	2463.2	146.5	81.4	48.8	34.9	24.4	17.4	12.8	9.3	8.1
57.5°	3976.6	2760.7	133.7	67.4	39.5	27.9	18.6	12.8	9.3	5.8	4.6
60°	4386.9	2970.0	117.4	53.5	32.5	20.9	13.9	9.3	7.0	3.5	3.5
62.5°	4810.1	3215.2	96.5	41.8	25.6	16.3	10.5	7.0	4.6	1.2	1.2
65°	5398.2	3407.0	74.4	32.5	19.8	11.6	8.1	5.8	2.3	0.0	0.0
67.5°	5564.5	3312.9	54.6	25.6	13.9	8.1	5.8	3.5	1.2	0.0	0.0
69°	5398.2	2983.9	47.7	22.1	11.6	7.0	4.6	2.3	1.2	0.0	0.0
70°	5094.9	2728.2	41.8	18.6	10.5	7.0	3.5	2.3	1.2	0.0	0.0
72.5°	4261.4	2092.3	32.5	13.9	8.1	5.8	3.5	2.3	0.0	0.0	0.0
75°	3125.7	1292.6	24.4	10.5	7.0	4.6	3.5	2.3	0.0	0.0	0.0
77.5°	1675.0	471.9	17.4	7.0	4.6	3.5	3.5	2.3	0.0	0.0	0.0
80°	459.2	139.5	12.8	4.6	3.5	2.3	2.3	1.2	0.0	0.0	0.0
82.5°	125.5	36.0	8.1	4.6	3.5	2.3	1.2	0.0	0.0	0.0	0.0
85°	67.4	13.9	4.6	3.5	2.3	1.2	0.0	0.0	0.0	0.0	0.0
87.5°	34.9	4.6	3.5	2.3	2.3	1.2	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)