

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: P484939

Luminaire Tested: **IFLD-S-SA2C-830-U-SL4-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484939
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2C-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

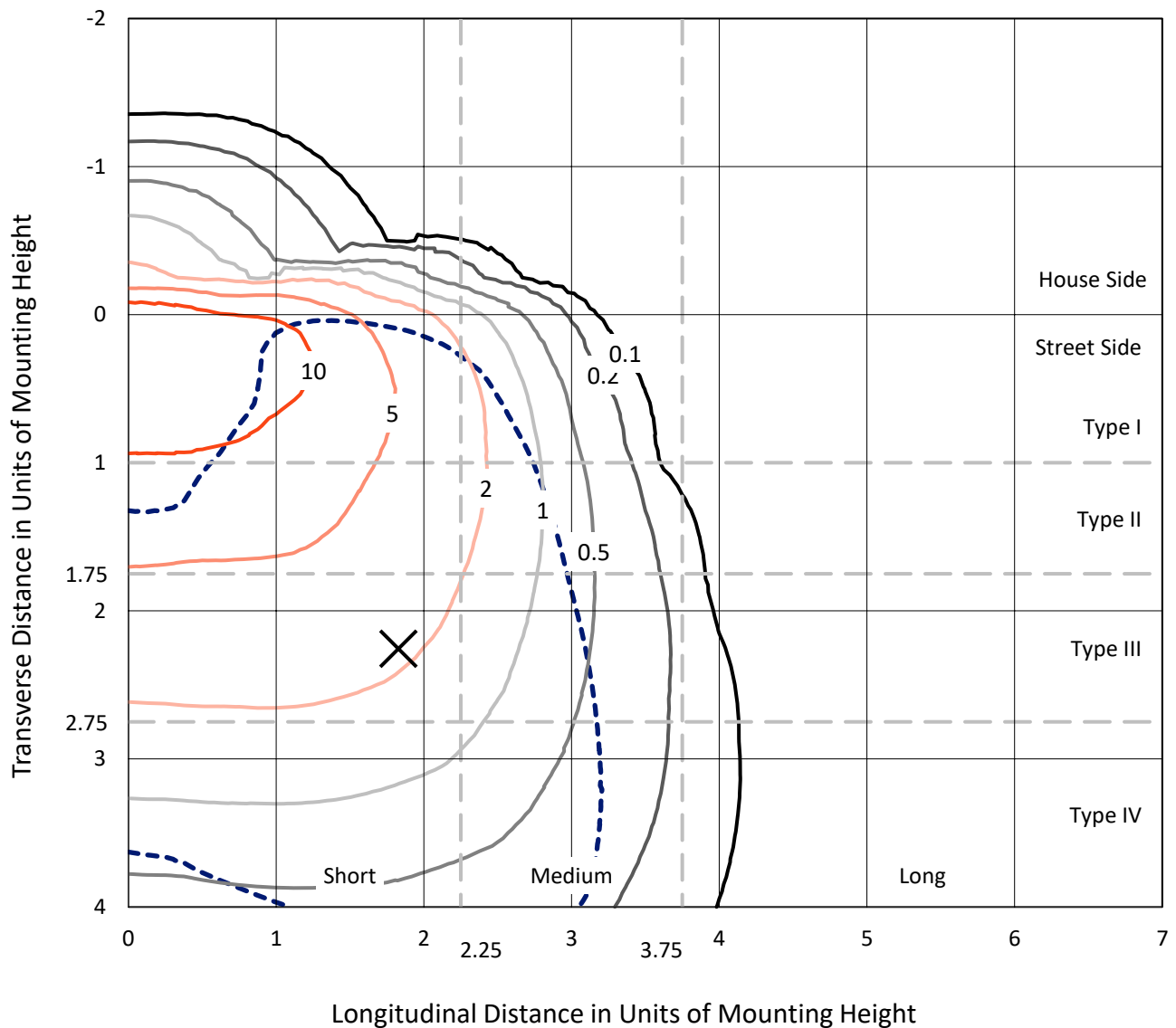
Lumens per Lamp: N/A
Luminaire Lumens: 9330.1 lumens
Efficiency: N/A
Efficacy: 86.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

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

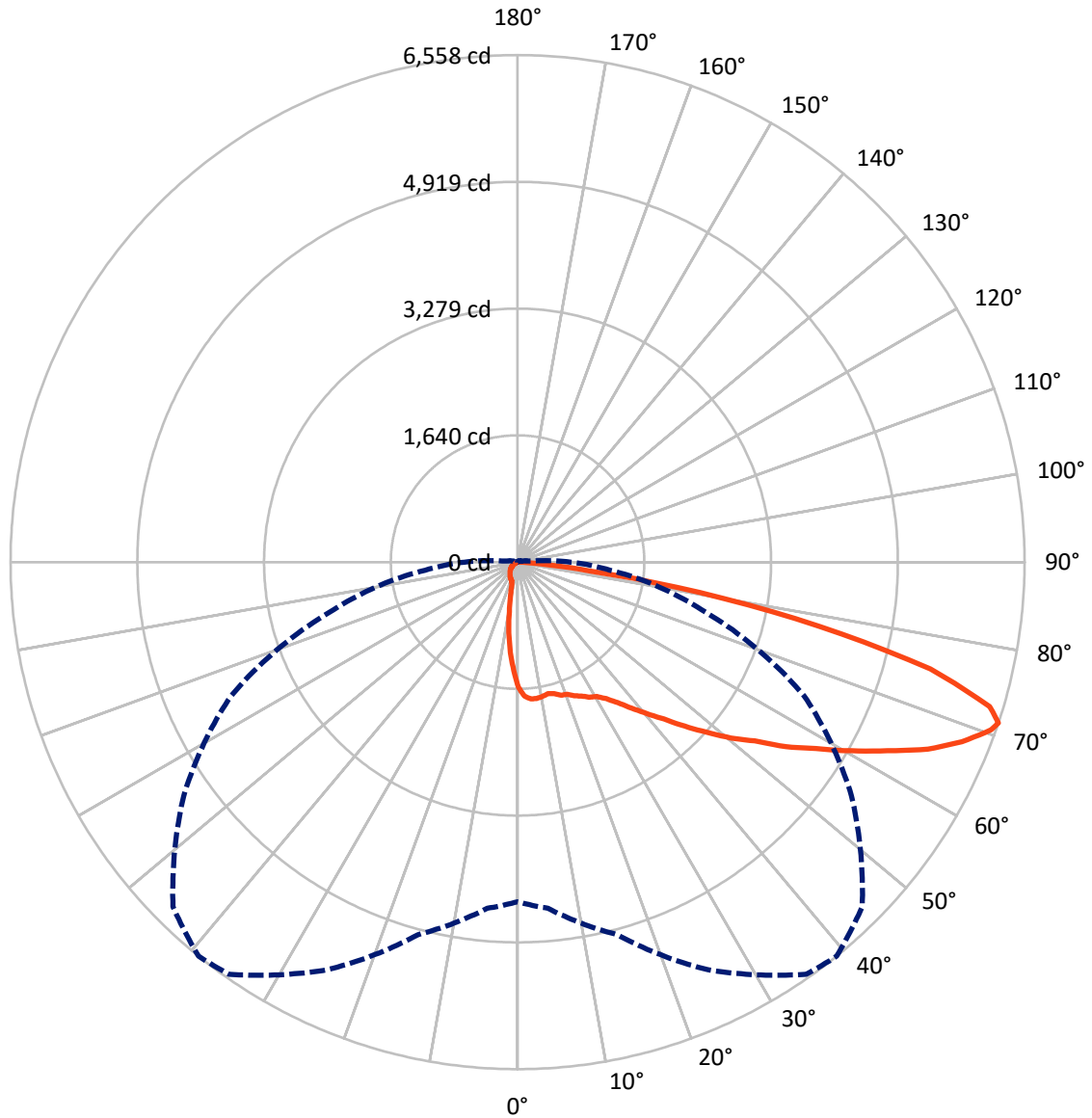
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 17.6 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	702.4	0.0	702.4
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	8627.7	0.0	8627.7
	% Fixture	92.5	0.0	92.5
Total	Lumens	9330.1	0.0	9330.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.8	1.5
10°-20°	334.2	3.6
20°-30°	536.5	5.8
30°-40°	821.2	8.8
40°-50°	1318.2	14.1
50°-60°	1936.3	20.8
60°-70°	2438.6	26.1
70°-80°	1627.5	17.4
80°-90°	181.9	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°	9330.1	100.0
0°-180°	9330.1	100.0

Coefficient of Utilization



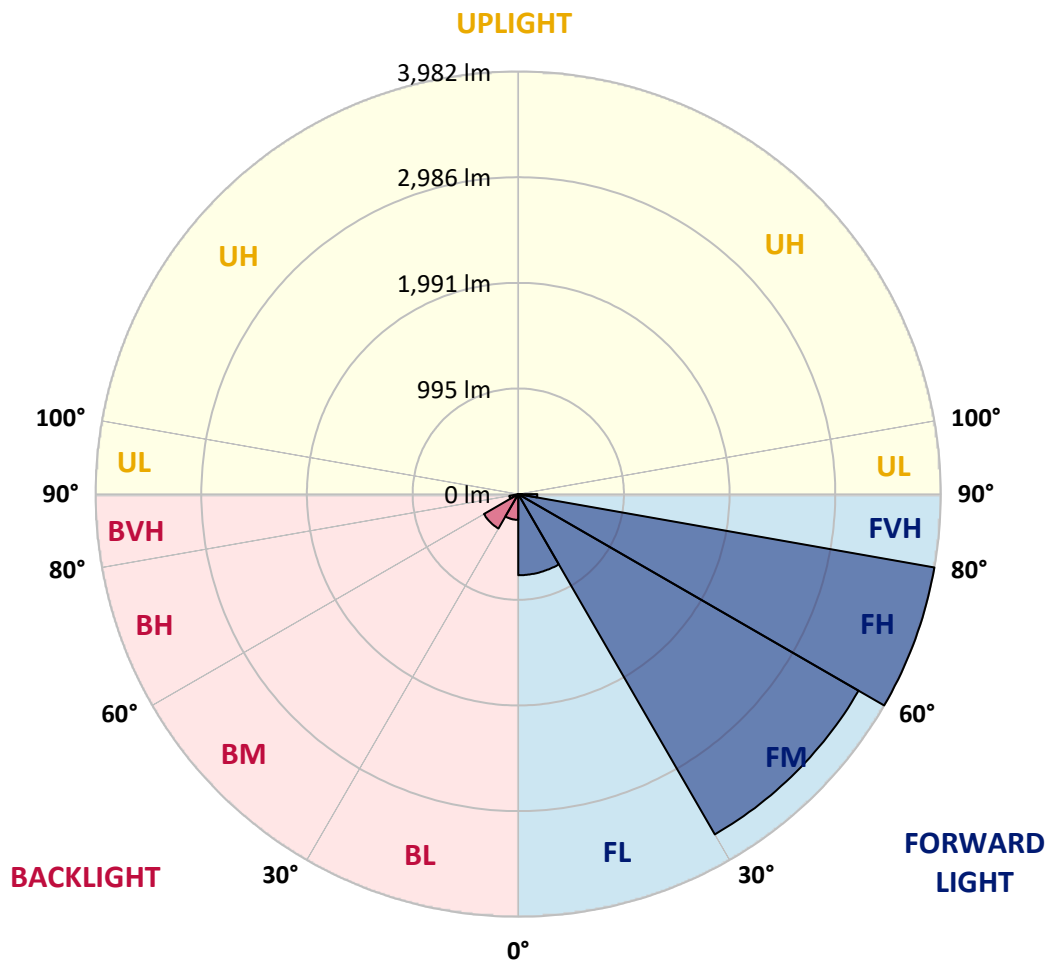
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	763.9	8.2			
FM (30°-60°)	3702.3	39.7			
FH (60°-80°)	3981.6	42.7			G2/5000
FVH (80°-90°)	179.9	1.9			G2/225
BL (0°-30°)	242.5	2.6	B1/500		
BM (30°-60°)	373.4	4.0	B1/1000		
BH (60°-80°)	84.5	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°	1624.0	1624.0	1624.0	1624.0	1624.0	1624.0	1624.0	1624.0	1624.0	1624.0	1624.0
2.5°	1750.0	1767.2	1750.0	1742.7	1735.3	1736.6	1717.0	1720.7	1697.4	1666.8	1642.3
5°	1805.1	1828.3	1810.0	1801.4	1800.2	1776.9	1767.2	1743.9	1715.8	1668.0	1638.7
7.5°	1800.2	1795.3	1803.9	1796.5	1780.6	1780.6	1769.6	1736.6	1708.4	1654.6	1604.4
10°	1763.5	1778.2	1770.8	1762.3	1765.9	1767.2	1746.4	1723.1	1714.5	1660.7	1578.7
12.5°	1759.8	1735.3	1762.3	1763.5	1747.6	1746.4	1743.9	1737.8	1710.9	1661.9	1584.8
15°	1747.6	1737.8	1764.7	1765.9	1769.6	1765.9	1769.6	1764.7	1737.8	1709.6	1611.7
17.5°	1757.4	1746.4	1784.3	1802.6	1794.1	1811.2	1805.1	1783.1	1759.8	1726.8	1637.4
20°	1759.8	1775.7	1817.3	1824.7	1851.6	1823.4	1822.2	1799.0	1784.3	1748.8	1653.3
22.5°	1805.1	1812.4	1863.8	1879.7	1881.0	1877.3	1846.7	1819.8	1813.7	1769.6	1657.0
25°	1873.6	1899.3	1922.6	1932.4	1936.0	1918.9	1887.1	1852.8	1838.1	1810.0	1695.0
27.5°	1994.8	1978.9	1999.7	2014.4	1972.8	1978.9	1938.5	1909.1	1888.3	1863.8	1739.0
30°	2102.5	2087.8	2089.0	2086.6	2051.1	2018.0	2007.0	1955.6	1929.9	1939.7	1807.5
32.5°	2199.2	2167.3	2194.3	2182.0	2115.9	2106.1	2097.6	2032.7	2037.6	2082.9	1910.3
35°	2288.5	2277.5	2299.5	2277.5	2233.4	2231.0	2222.4	2166.1	2193.0	2257.9	2086.6
37.5°	2370.5	2374.2	2401.1	2390.1	2393.7	2396.2	2391.3	2331.3	2408.4	2554.1	2292.2
40°	2446.4	2441.5	2507.5	2541.8	2549.2	2576.1	2576.1	2561.4	2680.1	2844.1	2577.3
42.5°	2527.1	2539.4	2625.0	2682.6	2752.3	2775.6	2807.4	2814.7	2998.3	3185.5	2868.6
45°	2659.3	2638.5	2747.4	2883.3	2944.4	3026.4	3075.4	3117.0	3338.5	3595.5	3159.8
47.5°	2827.0	2785.3	2880.8	3077.8	3219.8	3287.1	3375.2	3430.3	3646.9	3912.5	3435.2
50°	3013.0	2970.1	3016.6	3288.3	3453.5	3575.9	3688.5	3758.3	4020.2	4267.4	3635.9
52.5°	3223.5	3184.3	3191.6	3507.4	3750.9	3840.3	3988.3	4092.4	4353.0	4481.5	3706.9
55°	3447.4	3437.6	3414.4	3721.5	4011.6	4212.3	4301.6	4426.5	4694.5	4597.8	3784.0
57.5°	3672.6	3642.0	3675.0	4005.5	4430.1	4550.1	4673.7	4748.3	4884.2	4699.4	3754.6
60°	3884.3	3886.8	3933.3	4313.9	4786.2	4956.4	5067.7	5022.4	5078.7	4743.4	3687.3
62.5°	4063.0	4058.1	4175.6	4660.2	5257.4	5372.4	5455.7	5253.7	5169.3	4786.2	3569.8
65°	4223.3	4278.4	4463.2	5072.6	5700.4	5832.6	5782.4	5472.8	5257.4	4660.2	3239.4
67.5°	4344.5	4426.5	4747.1	5460.6	6106.7	6199.7	6130.0	5639.2	5153.4	4165.8	2638.5
70°	4415.4	4498.7	4950.2	5783.6	6431.0	6498.3	6334.3	5510.7	4546.4	3016.6	1646.0
71°	4393.4	4495.0	4989.4	5817.9	6508.1	6558.3	6303.7	5273.3	4088.7	2525.9	1200.5
72.5°	4193.9	4289.4	4826.6	5793.4	6415.1	6384.5	6065.1	4703.0	3218.6	1610.5	620.5
75°	3081.5	3184.3	4142.5	5011.4	5726.1	5515.6	4908.6	3300.6	1679.0	493.2	181.1
77.5°	1534.6	1551.8	2571.2	3638.3	4200.1	3990.8	3289.6	1840.6	627.8	145.6	90.6
80°	707.4	712.2	964.3	1884.6	2539.4	2390.1	1843.0	908.1	283.9	77.1	71.0
82.5°	482.2	489.5	581.3	780.8	1102.6	930.1	746.5	581.3	162.8	46.5	69.8
85°	88.1	80.8	325.5	413.6	425.9	288.8	258.2	503.0	61.2	26.9	61.2
87.5°	0.0	1.2	45.3	168.9	151.8	67.3	88.1	122.4	6.1	8.6	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°	1624.0	1624.0	1624.0	1624.0	1624.0	1624.0	1624.0	1624.0	1624.0	1624.0	1624.0
2.5°	1621.5	1608.1	1562.8	1512.6	1467.3	1431.8	1386.6	1365.8	1332.7	1314.4	1313.1
5°	1598.3	1561.6	1483.2	1398.8	1304.6	1226.2	1139.3	1090.4	1034.1	1017.0	1013.3
7.5°	1559.1	1506.5	1391.5	1272.7	1128.3	990.0	883.6	769.8	700.0	670.6	659.6
10°	1534.6	1471.0	1314.4	1136.9	935.0	740.4	591.1	469.9	406.3	375.7	368.4
12.5°	1534.6	1466.1	1251.9	1007.2	739.2	506.6	365.9	296.2	275.4	268.0	268.0
15°	1531.0	1456.3	1192.0	873.8	547.0	340.2	272.9	258.2	255.8	254.5	253.3
17.5°	1549.3	1439.2	1130.8	730.6	386.7	268.0	250.9	248.4	246.0	246.0	243.5
20°	1562.8	1429.4	1057.4	578.9	288.8	248.4	241.1	237.4	236.2	235.0	237.4
22.5°	1551.8	1414.7	966.8	433.2	252.1	236.2	231.3	227.6	225.2	225.2	226.4
25°	1572.6	1401.2	876.2	326.8	236.2	225.2	220.3	217.8	216.6	215.4	212.9
27.5°	1600.7	1407.4	768.5	263.1	222.7	214.2	209.3	206.8	205.6	203.1	205.6
30°	1635.0	1406.1	649.8	230.1	210.5	201.9	197.0	195.8	193.4	192.1	193.4
32.5°	1693.7	1438.0	527.5	212.9	197.0	189.7	184.8	183.6	182.3	181.1	179.9
35°	1819.8	1477.1	412.4	199.5	184.8	176.2	172.6	170.1	168.9	167.7	166.4
37.5°	1975.2	1564.0	314.5	187.2	172.6	164.0	160.3	159.1	154.2	153.0	151.8
40°	2169.8	1657.0	242.3	173.8	161.5	153.0	149.3	145.6	139.5	137.1	134.6
42.5°	2412.1	1747.6	199.5	161.5	149.3	143.2	137.1	130.9	126.1	121.2	118.7
45°	2654.4	1852.8	175.0	150.5	139.5	132.2	127.3	118.7	110.1	102.8	101.6
47.5°	2856.3	1890.8	160.3	138.3	129.7	123.6	116.3	105.2	93.0	85.7	84.4
50°	3006.9	1868.7	145.6	126.1	118.7	112.6	102.8	89.3	77.1	69.8	67.3
52.5°	3036.2	1772.0	132.2	116.3	107.7	100.4	89.3	74.7	61.2	53.8	52.6
55°	3015.4	1611.7	121.2	107.7	97.9	86.9	74.7	60.0	47.7	40.4	39.2
57.5°	2972.6	1422.0	108.9	96.7	85.7	74.7	61.2	49.0	35.5	28.1	28.1
60°	2827.0	1163.8	96.7	84.4	73.4	63.6	50.2	35.5	24.5	18.4	17.1
62.5°	2623.8	894.6	84.4	72.2	63.6	52.6	39.2	25.7	14.7	9.8	9.8
65°	2253.0	626.6	71.0	60.0	52.6	42.8	29.4	15.9	8.6	3.7	3.7
67.5°	1712.1	387.9	58.7	50.2	45.3	34.3	20.8	9.8	3.7	1.2	0.0
70°	982.7	201.9	46.5	40.4	35.5	25.7	14.7	4.9	2.4	0.0	0.0
71°	686.5	149.3	41.6	35.5	31.8	23.3	12.2	3.7	1.2	0.0	0.0
72.5°	343.9	99.1	35.5	29.4	25.7	18.4	9.8	3.7	1.2	0.0	0.0
75°	122.4	63.6	24.5	19.6	18.4	13.5	6.1	2.4	1.2	0.0	0.0
77.5°	84.4	51.4	17.1	12.2	12.2	8.6	3.7	1.2	1.2	0.0	0.0
80°	77.1	28.1	11.0	7.3	6.1	4.9	2.4	1.2	0.0	0.0	0.0
82.5°	77.1	20.8	6.1	4.9	3.7	2.4	1.2	0.0	0.0	0.0	0.0
85°	53.8	11.0	3.7	3.7	2.4	1.2	0.0	0.0	0.0	0.0	0.0
87.5°	8.6	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)