

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: P482994

Luminaire Tested: **IFLD-S-SA3C-830-U-T3R-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P482994
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3C-830-U-T3R-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R distribution lens with House Side Shield
Light Source: (48) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

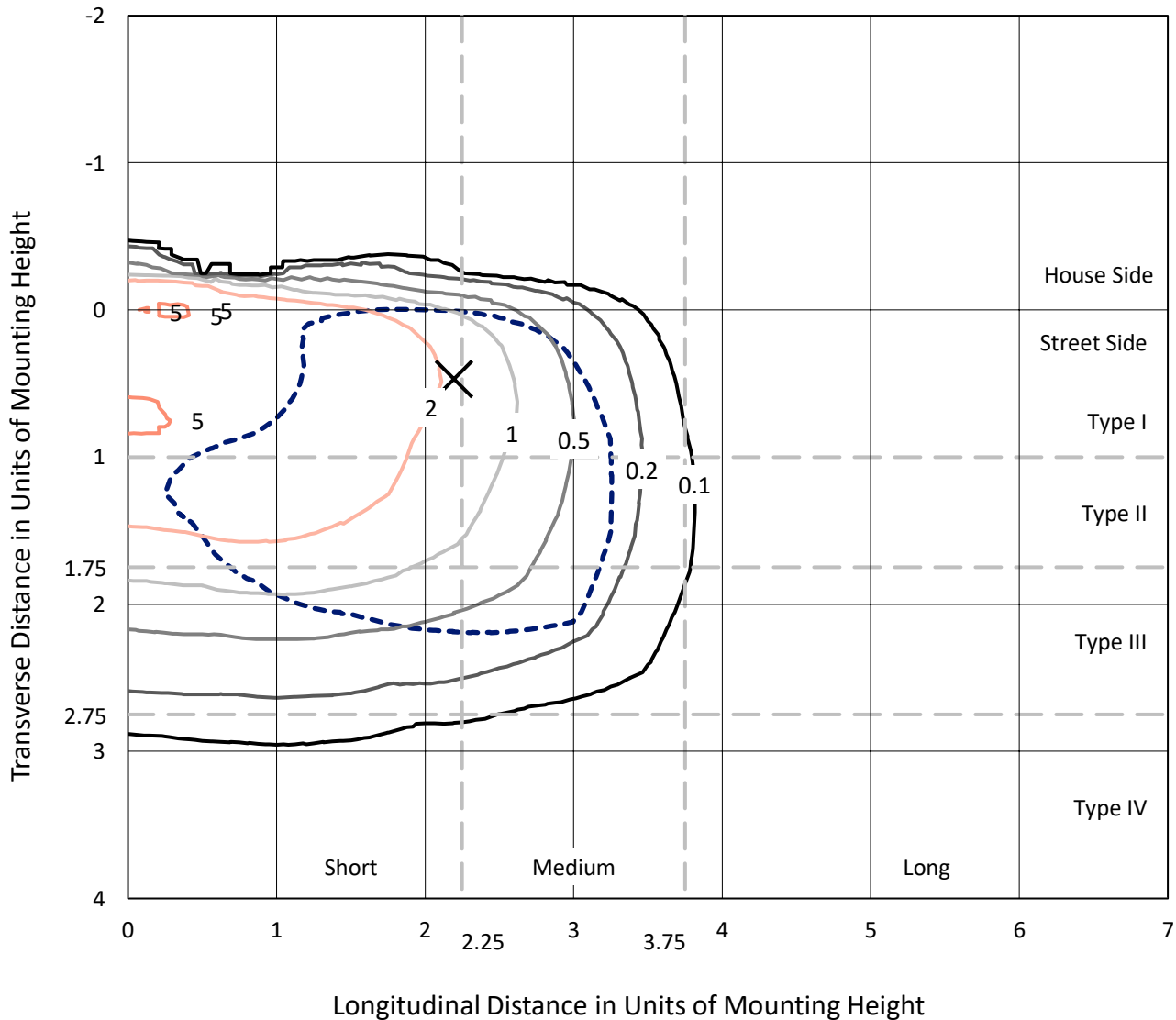
Lumens per Lamp: N/A
Luminaire Lumens: 12064.9 lumens
Efficiency: N/A
Efficacy: 75.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 160.8
Input Voltage (V): 120
Input Current (A_{in}): 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

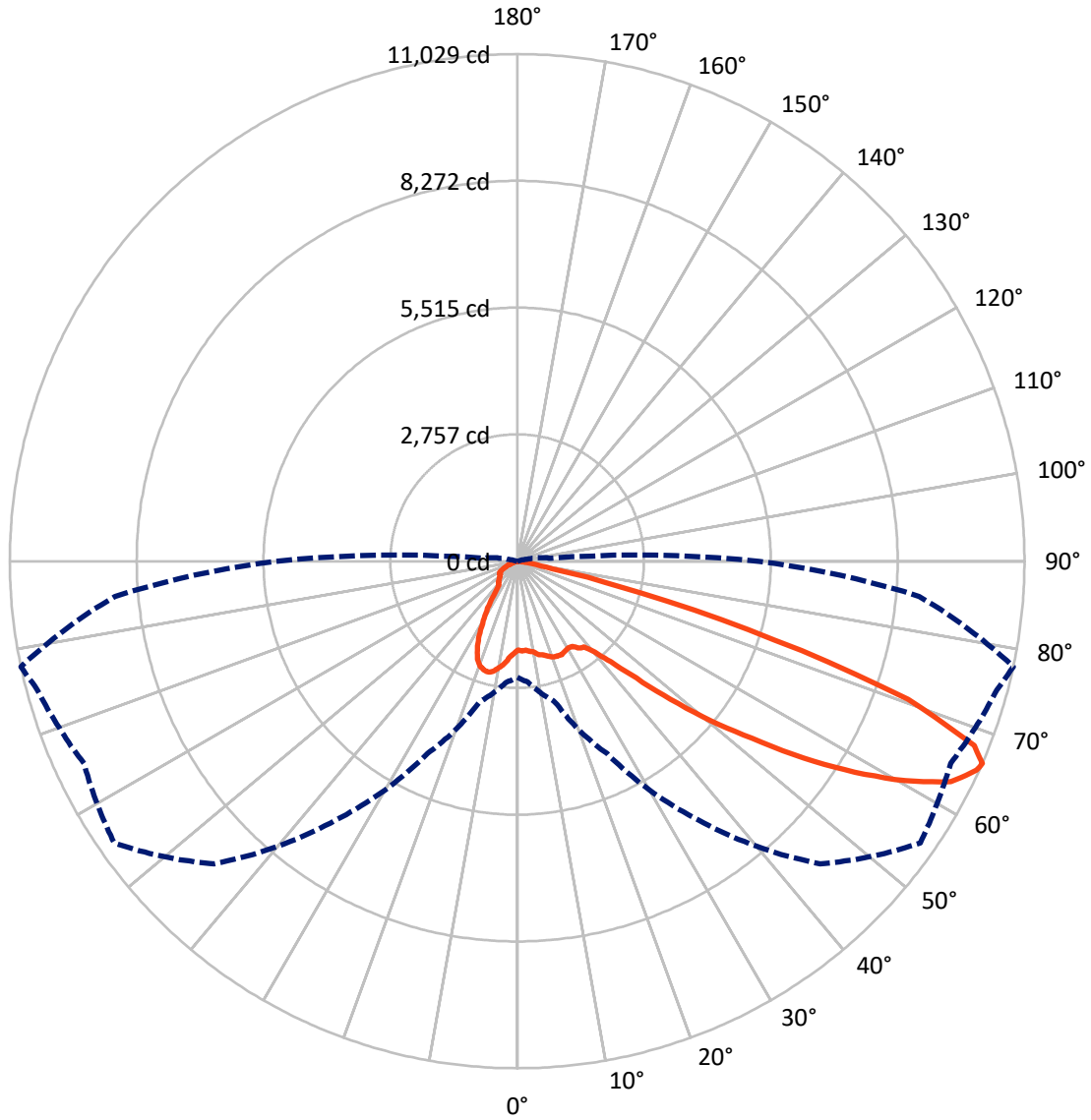
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	848.2	0.0	848.2
	% Fixture	7.0	0.0	7.0
Street Side	Lumens	11216.7	0.0	11216.7
	% Fixture	93.0	0.0	93.0
Total	Lumens	12064.9	0.0	12064.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	176.8	1.5
10°-20°	399.1	3.3
20°-30°	570.4	4.7
30°-40°	976.4	8.1
40°-50°	1762.2	14.6
50°-60°	3013.7	25.0
60°-70°	3709.3	30.7
70°-80°	1402.3	11.6
80°-90°	54.8	0.5
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°	12064.9	100.0
0°-180°	12064.9	100.0

Coefficient of Utilization

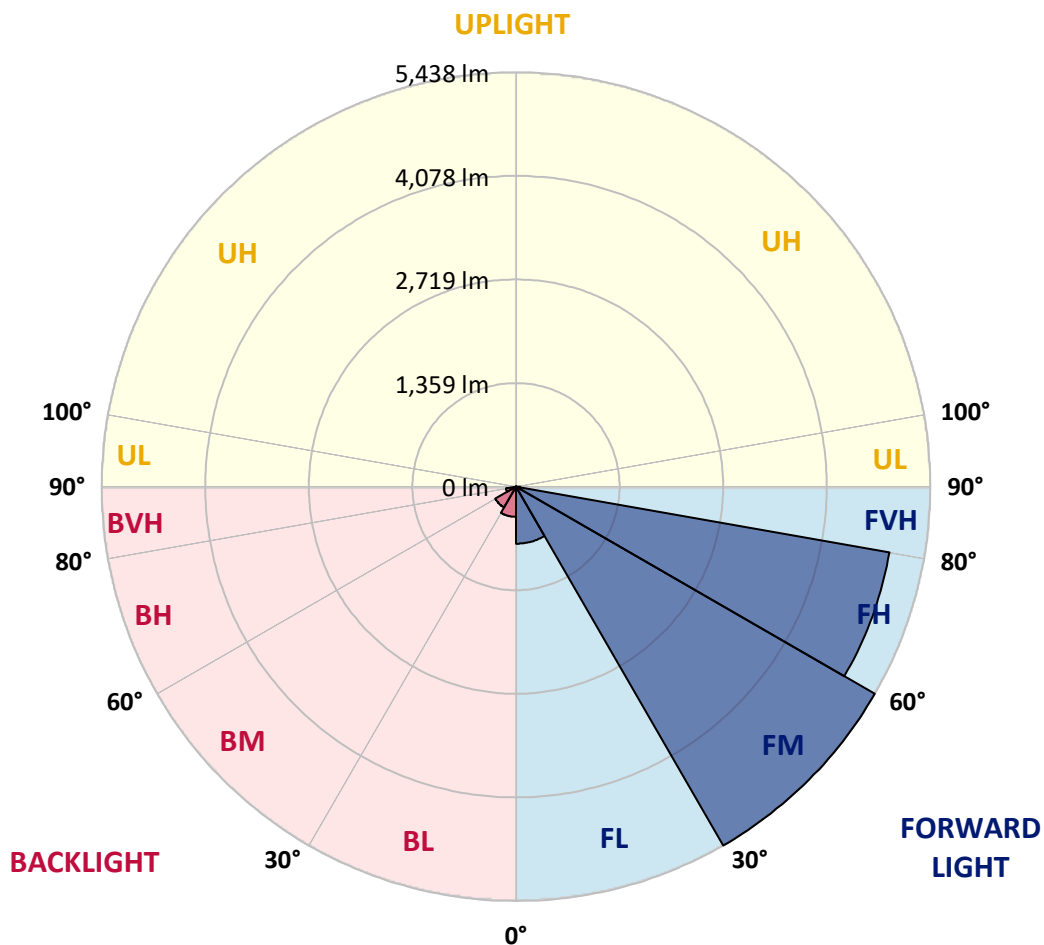


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	749.0	6.2			
FM (30°-60°)	5437.9	45.1			
FH (60°-80°)	4977.2	41.3			G2/5000
FVH (80°-90°)	52.6	0.4			G1/100
BL (0°-30°)	397.3	3.3	B1/500		
BM (30°-60°)	314.4	2.6	B1/1000		
BH (60°-80°)	134.4	1.1	B1/500		G1/500
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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	1932.4	1932.4	1932.4	1932.4	1932.4	1932.4	1932.4	1932.4	1932.4	1932.4	1932.4
2.5°	1777.5	1761.0	1777.5	1801.2	1813.9	1824.9	1863.1	1895.9	1930.6	1954.3	1947.0
5°	1648.0	1679.0	1682.7	1689.9	1710.0	1775.6	1797.5	1854.0	1939.7	1947.0	1979.8
7.5°	1545.9	1536.8	1560.5	1607.9	1659.0	1697.2	1761.0	1859.5	1948.8	1979.8	2043.6
10°	1398.3	1416.5	1442.0	1489.4	1551.4	1646.2	1759.2	1868.6	1996.2	2007.2	2125.7
12.5°	1318.0	1299.8	1339.9	1389.1	1494.9	1582.4	1720.9	1852.2	2025.4	2085.5	2222.3
15°	1252.4	1261.5	1299.8	1332.6	1420.1	1531.3	1693.6	1892.3	2074.6	2116.5	2324.4
17.5°	1225.1	1219.6	1248.8	1281.6	1389.1	1514.9	1682.7	1894.1	2118.4	2173.0	2393.6
20°	1237.8	1248.8	1239.7	1270.7	1338.1	1465.7	1699.1	1928.8	2151.2	2225.9	2468.4
22.5°	1438.4	1423.8	1350.9	1292.5	1296.2	1445.7	1686.3	1950.6	2180.3	2240.5	2519.4
25°	1961.6	1883.2	1702.7	1478.5	1330.8	1391.0	1671.7	1943.3	2174.9	2249.6	2550.4
27.5°	2488.4	2421.0	2244.1	1895.9	1471.2	1369.1	1620.7	1948.8	2147.5	2216.8	2499.4
30°	3044.5	3080.9	2818.4	2404.6	1839.4	1489.4	1587.9	1919.6	2129.3	2187.6	2510.3
32.5°	3615.1	3600.5	3441.9	2993.4	2366.3	1755.6	1640.7	1948.8	2153.0	2209.5	2574.1
35°	4061.7	4010.7	3850.2	3445.5	2802.0	2156.6	1823.0	2087.4	2256.9	2324.4	2665.3
37.5°	4282.3	4304.2	4211.2	3859.4	3279.6	2528.5	2050.9	2087.4	2289.7	2368.1	2812.9
40°	4453.7	4519.3	4484.6	4371.6	3753.6	2947.8	2302.5	2216.8	2455.6	2603.3	3090.0
42.5°	4659.7	4628.7	4832.8	4728.9	4373.4	3476.5	2743.7	2524.9	2847.6	2989.8	3505.7
45°	4769.0	4887.5	5042.5	5175.6	4947.7	4136.5	3319.7	3070.0	3447.3	3627.8	4123.7
47.5°	5049.8	5097.2	5348.8	5516.5	5414.4	4891.2	4194.8	3866.6	4202.1	4486.5	4831.0
50°	5213.9	5150.1	5501.9	5757.1	5815.5	5516.5	4978.7	4723.5	5099.0	5461.8	5492.8
52.5°	5069.8	5252.1	5604.0	6061.6	6223.8	6074.3	5899.3	5788.1	6052.5	6387.9	6238.4
55°	4564.9	4688.8	5545.7	6395.2	6918.4	6849.1	7011.4	6938.4	7204.6	7560.1	7109.8
57.5°	4158.3	4313.3	5066.2	6568.4	7565.6	7769.7	7973.9	7928.3	8249.2	8659.4	7848.1
60°	3904.9	3994.3	4719.8	6524.6	7948.4	8721.4	9182.6	8861.7	9384.9	9698.5	8426.0
62.5°	3465.6	3522.1	4214.8	5944.9	8063.3	9394.1	10176.1	9740.4	10194.4	10577.2	8841.7
65°	2778.3	2931.4	3503.9	5077.1	7304.9	9518.0	10796.0	10283.7	10723.1	10974.6	8967.5
66°	2528.5	2639.7	3164.8	4617.7	6872.8	9312.0	10692.1	10396.7	10799.6	11029.3	8774.2
67.5°	2098.3	2194.9	2612.4	3963.3	5988.6	8858.1	10765.0	10320.2	10858.0	10717.6	8515.4
70°	1389.1	1451.1	1786.6	2679.9	4171.1	7246.5	9984.7	9722.2	9545.4	9018.5	6657.7
72.5°	649.0	738.3	1115.7	1624.3	2446.5	5069.8	8141.6	7789.8	6694.2	5851.9	4200.3
75°	293.5	333.6	612.5	931.6	1097.5	2627.0	5252.1	4743.5	3332.5	2767.4	1839.4
77.5°	158.6	180.5	299.0	443.0	399.2	920.6	2599.6	2162.1	1050.1	769.3	534.1
80°	122.1	144.0	249.8	253.4	147.7	238.8	966.2	669.1	262.5	198.7	127.6
82.5°	63.8	91.2	196.9	164.1	74.7	96.6	299.0	185.9	82.0	65.6	54.7
85°	25.5	40.1	111.2	109.4	43.8	32.8	83.9	56.5	32.8	27.3	25.5
87.5°	1.8	1.8	60.2	41.9	27.3	9.1	12.8	12.8	16.4	14.6	18.2
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°	1932.4	1932.4	1932.4	1932.4	1932.4	1932.4	1932.4	1932.4	1932.4	1932.4	1932.4
2.5°	1979.8	2001.7	2005.3	2065.5	2078.3	2065.5	2098.3	2092.8	2107.4	2096.5	2076.4
5°	2025.4	2056.4	2116.5	2162.1	2162.1	2125.7	2096.5	2058.2	2001.7	1987.1	1976.2
7.5°	2103.8	2202.2	2256.9	2227.7	2169.4	2032.7	1843.1	1704.5	1587.9	1544.1	1524.1
10°	2242.3	2297.0	2360.8	2242.3	1999.9	1710.0	1391.0	1181.3	1017.2	980.8	953.4
12.5°	2331.7	2419.2	2455.6	2162.1	1686.3	1254.2	907.9	670.9	556.0	468.5	453.9
15°	2448.3	2548.6	2473.8	1945.2	1329.0	822.2	470.3	293.5	238.8	224.2	224.2
17.5°	2528.5	2637.9	2399.1	1675.4	942.5	437.5	233.3	202.4	198.7	200.5	196.9
20°	2668.9	2734.5	2286.1	1361.8	563.3	224.2	187.8	180.5	176.8	182.3	178.7
22.5°	2721.8	2781.9	2102.0	986.3	253.4	149.5	140.4	134.9	138.6	136.7	134.9
25°	2718.1	2749.1	1799.3	565.1	74.7	58.3	52.9	52.9	49.2	51.0	49.2
27.5°	2745.5	2668.9	1460.2	167.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30°	2760.1	2539.5	1039.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	2767.4	2472.0	669.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	2823.9	2337.1	286.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	2862.2	2163.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	3020.8	2109.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	3226.8	2007.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	3513.0	1855.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	3892.2	1766.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	4174.7	1626.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	4533.9	1542.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	4960.5	1545.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	5348.8	1520.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	5547.5	1299.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	5505.5	1051.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	5359.7	825.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	5259.4	731.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	4955.0	585.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	3943.2	401.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	2508.5	246.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	1155.8	113.0	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	362.8	69.3	14.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	94.8	43.8	14.6	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	49.2	31.0	12.8	5.5	3.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	31.0	12.8	5.5	3.6	3.6	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	27.3	7.3	3.6	3.6	1.8	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)