

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: P482795

Luminaire Tested: **IFLD-S-SA2D-735-U-T3R-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P482795
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2D-735-U-T3R-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R
distribution lens with House Side Shield
Light Source: (32) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

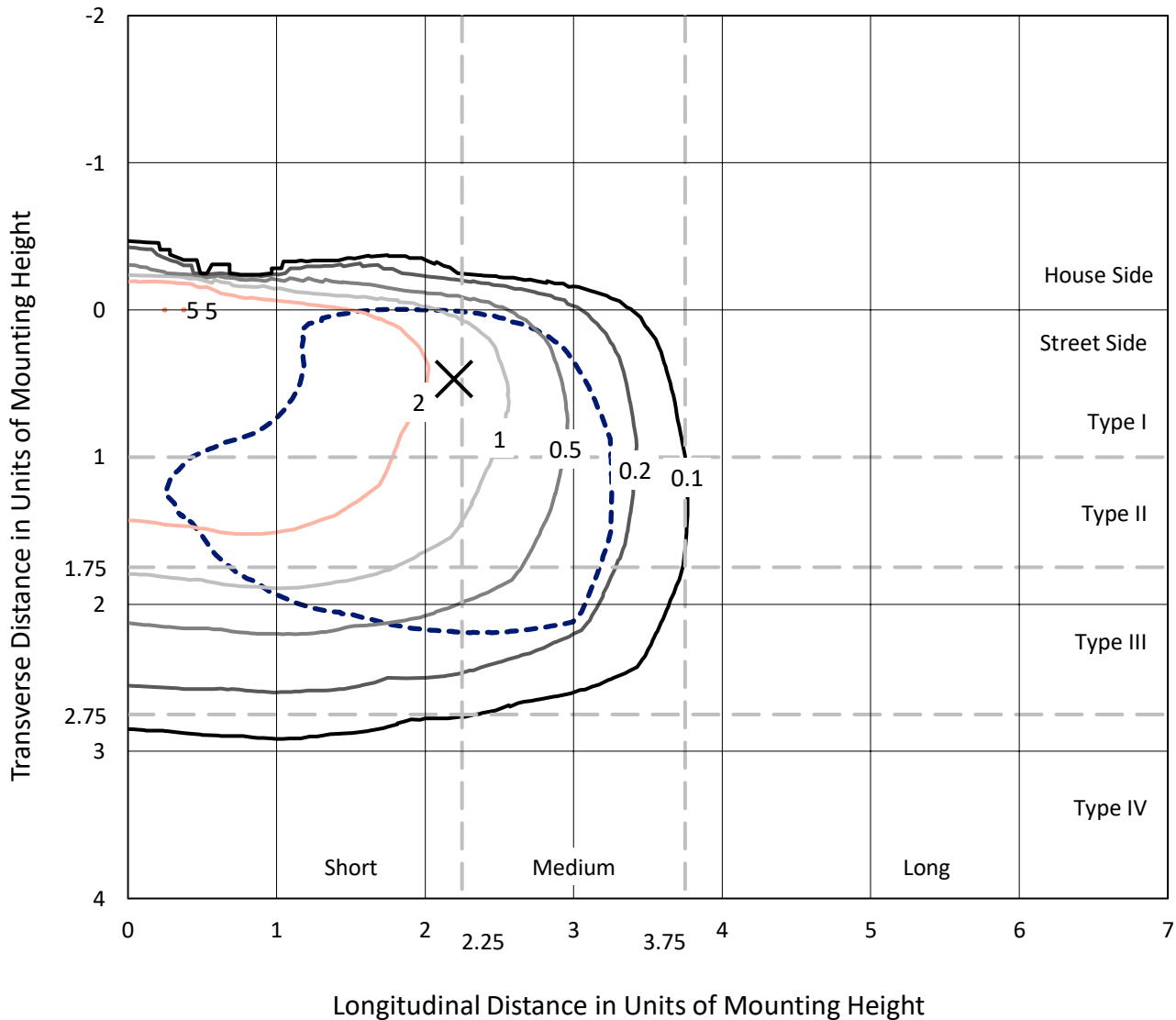
Lumens per Lamp: N/A
Luminaire Lumens: 11057.1 lumens
Efficiency: N/A
Efficacy: 89.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 123.9
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

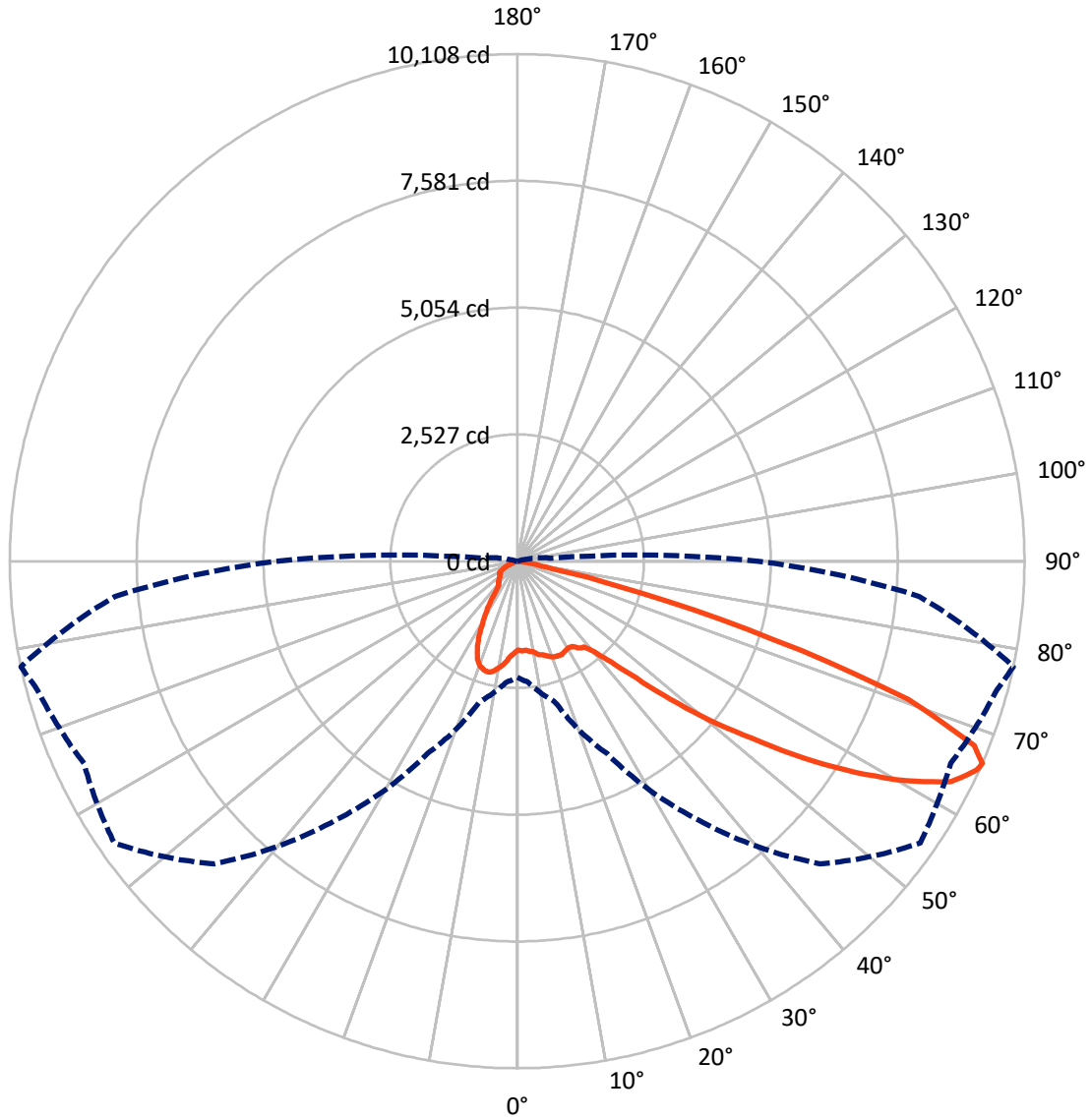
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5 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	777.4	0.0	777.4
	% Fixture	7.0	0.0	7.0
Street Side	Lumens	10279.8	0.0	10279.8
	% Fixture	93.0	0.0	93.0
Total	Lumens	11057.1	0.0	11057.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	162.0	1.5
10°-20°	365.7	3.3
20°-30°	522.8	4.7
30°-40°	894.8	8.1
40°-50°	1615.0	14.6
50°-60°	2761.9	25.0
60°-70°	3399.5	30.7
70°-80°	1285.2	11.6
80°-90°	50.2	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°	11057.1	100.0
0°-180°	11057.1	100.0

Coefficient of Utilization

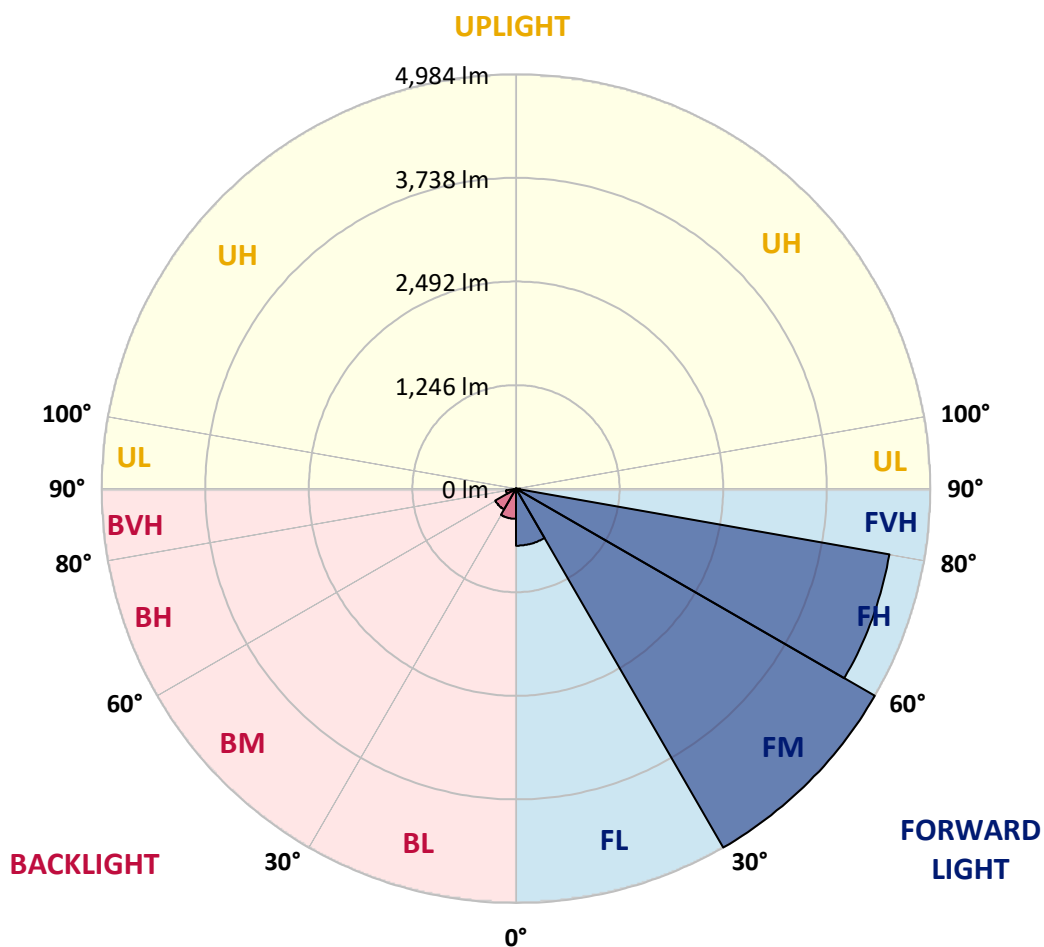


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	686.4	6.2			
FM (30°-60°)	4983.7	45.1			
FH (60°-80°)	4561.5	41.3			G2/5000
FVH (80°-90°)	48.2	0.4			G1/100
BL (0°-30°)	364.1	3.3	B1/500		
BM (30°-60°)	288.1	2.6	B1/1000		
BH (60°-80°)	123.2	1.1	B1/500		G1/500
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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	1771.0	1771.0	1771.0	1771.0	1771.0	1771.0	1771.0	1771.0	1771.0	1771.0	1771.0
2.5°	1629.0	1613.9	1629.0	1650.7	1662.4	1672.4	1707.5	1737.6	1769.3	1791.0	1784.4
5°	1510.4	1538.8	1542.1	1548.8	1567.2	1627.3	1647.4	1699.2	1777.7	1784.4	1814.4
7.5°	1416.8	1408.4	1430.2	1473.6	1520.4	1555.5	1613.9	1704.2	1786.0	1814.4	1872.9
10°	1281.5	1298.2	1321.6	1365.0	1421.8	1508.7	1612.3	1712.5	1829.5	1839.5	1948.1
12.5°	1208.0	1191.2	1228.0	1273.1	1370.0	1450.2	1577.2	1697.5	1856.2	1911.3	2036.6
15°	1147.8	1156.2	1191.2	1221.3	1301.5	1403.4	1552.1	1734.2	1901.3	1939.7	2130.2
17.5°	1122.7	1117.7	1144.5	1174.5	1273.1	1388.4	1542.1	1735.9	1941.4	1991.5	2193.7
20°	1134.4	1144.5	1136.1	1164.5	1226.3	1343.3	1557.1	1767.7	1971.5	2040.0	2262.2
22.5°	1318.2	1304.9	1238.0	1184.6	1187.9	1324.9	1545.4	1787.7	1998.2	2053.3	2309.0
25°	1797.7	1725.9	1560.5	1355.0	1219.6	1274.8	1532.1	1781.0	1993.2	2061.7	2337.4
27.5°	2280.6	2218.8	2056.7	1737.6	1348.3	1254.7	1485.3	1786.0	1968.1	2031.6	2290.6
30°	2790.1	2823.6	2583.0	2203.7	1685.8	1365.0	1455.2	1759.3	1951.4	2004.9	2300.6
32.5°	3313.1	3299.7	3154.4	2743.4	2168.6	1608.9	1503.7	1786.0	1973.2	2024.9	2359.1
35°	3722.4	3675.6	3528.6	3157.7	2567.9	1976.5	1670.7	1913.0	2068.4	2130.2	2442.6
37.5°	3924.6	3944.6	3859.4	3537.0	3005.7	2317.3	1879.6	1913.0	2098.5	2170.3	2578.0
40°	4081.6	4141.8	4110.0	4006.5	3440.1	2701.6	2110.2	2031.6	2250.5	2385.8	2831.9
42.5°	4270.4	4242.0	4429.2	4333.9	4008.1	3186.1	2514.5	2314.0	2609.7	2740.0	3212.8
45°	4370.7	4479.3	4621.3	4743.3	4534.4	3790.9	3042.4	2813.5	3159.4	3324.8	3779.2
47.5°	4628.0	4671.4	4902.0	5055.7	4962.1	4482.6	3844.4	3543.7	3851.1	4111.7	4427.5
50°	4778.3	4719.9	5042.3	5276.2	5329.7	5055.7	4562.8	4328.9	4673.1	5005.6	5034.0
52.5°	4646.3	4813.4	5135.9	5555.2	5703.9	5566.9	5406.5	5304.6	5546.9	5854.3	5717.3
55°	4183.6	4297.2	5082.4	5861.0	6340.5	6277.0	6425.7	6358.9	6602.8	6928.6	6515.9
57.5°	3811.0	3953.0	4643.0	6019.7	6933.6	7120.7	7307.9	7266.1	7560.1	7936.1	7192.6
60°	3578.7	3660.6	4325.6	5979.6	7284.5	7992.9	8415.6	8121.5	8601.0	8888.4	7722.2
62.5°	3176.1	3227.9	3862.8	5448.3	7389.7	8609.4	9326.1	8926.8	9342.8	9693.7	8103.1
65°	2546.2	2686.6	3211.2	4653.0	6694.7	8723.0	9894.2	9424.7	9827.3	10057.9	8218.4
66°	2317.3	2419.2	2900.4	4232.0	6298.7	8534.2	9798.9	9528.3	9897.5	10108.0	8041.3
67.5°	1923.0	2011.6	2394.2	3632.2	5488.4	8118.2	9865.8	9458.1	9951.0	9822.3	7804.1
70°	1273.1	1329.9	1637.3	2456.0	3822.7	6641.2	9150.7	8910.1	8748.0	8265.2	6101.6
72.5°	594.8	676.7	1022.5	1488.6	2242.1	4646.3	7461.6	7139.1	6135.0	5363.1	3849.4
75°	269.0	305.7	561.4	853.8	1005.8	2407.5	4813.4	4347.3	3054.1	2536.2	1685.8
77.5°	145.4	165.4	274.0	406.0	365.9	843.7	2382.5	1981.5	962.4	705.1	489.5
80°	111.9	132.0	228.9	232.2	135.3	218.9	885.5	613.2	240.6	182.1	117.0
82.5°	58.5	83.5	180.4	150.4	68.5	88.5	274.0	170.4	75.2	60.1	50.1
85°	23.4	36.8	101.9	100.2	40.1	30.1	76.9	51.8	30.1	25.1	23.4
87.5°	1.7	1.7	55.1	38.4	25.1	8.4	11.7	11.7	15.0	13.4	16.7
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°	1771.0	1771.0	1771.0	1771.0	1771.0	1771.0	1771.0	1771.0	1771.0	1771.0	1771.0
2.5°	1814.4	1834.5	1837.8	1893.0	1904.7	1893.0	1923.0	1918.0	1931.4	1921.4	1903.0
5°	1856.2	1884.6	1939.7	1981.5	1981.5	1948.1	1921.4	1886.3	1834.5	1821.1	1811.1
7.5°	1928.0	2018.3	2068.4	2041.7	1988.2	1862.9	1689.1	1562.1	1455.2	1415.1	1396.7
10°	2055.0	2105.1	2163.6	2055.0	1832.8	1567.2	1274.8	1082.6	932.3	898.9	873.8
12.5°	2136.9	2217.1	2250.5	1981.5	1545.4	1149.5	832.0	614.8	509.6	429.4	416.0
15°	2243.8	2335.7	2267.2	1782.7	1218.0	753.5	431.1	269.0	218.9	205.5	205.5
17.5°	2317.3	2417.6	2198.7	1535.4	863.8	401.0	213.9	185.5	182.1	183.8	180.4
20°	2446.0	2506.1	2095.1	1248.0	516.3	205.5	172.1	165.4	162.1	167.1	163.7
22.5°	2494.4	2549.6	1926.4	903.9	232.2	137.0	128.6	123.6	127.0	125.3	123.6
25°	2491.1	2519.5	1649.0	517.9	68.5	53.5	48.5	48.5	45.1	46.8	45.1
27.5°	2516.1	2446.0	1338.3	153.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30°	2529.5	2327.4	952.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	2536.2	2265.5	613.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	2588.0	2141.9	262.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	2623.1	1983.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	2768.4	1933.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	2957.2	1839.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	3219.5	1700.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	3567.0	1619.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	3826.0	1490.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	4155.1	1413.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	4546.1	1416.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	4902.0	1393.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	5084.1	1191.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	5045.7	964.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	4912.0	756.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	4820.1	670.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	4541.1	536.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	3613.8	367.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	2298.9	225.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	1059.3	103.6	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	332.5	63.5	13.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	86.9	40.1	13.4	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	45.1	28.4	11.7	5.0	3.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	28.4	11.7	5.0	3.3	3.3	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	25.1	6.7	3.3	3.3	1.7	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)