

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: P482955

Luminaire Tested: **IFLD-S-SA3C-827-U-T3R-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P482955
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3C-827-U-T3R-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R distribution lens with House Side Shield
Light Source: (48) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

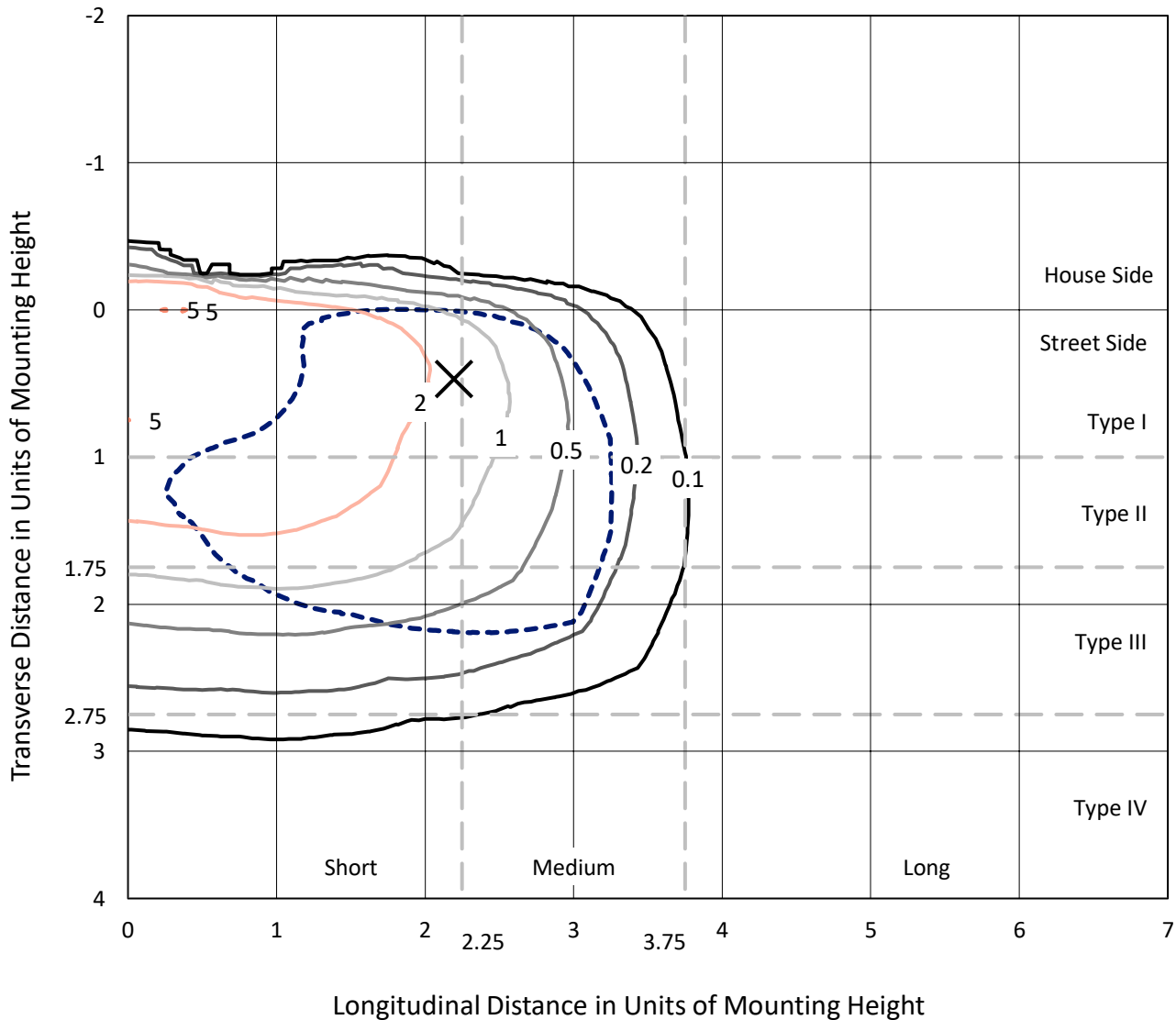
Lumens per Lamp: N/A
Luminaire Lumens: 11161.5 lumens
Efficiency: N/A
Efficacy: 69.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 160.8
Input Voltage (V): 120
Input Current (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

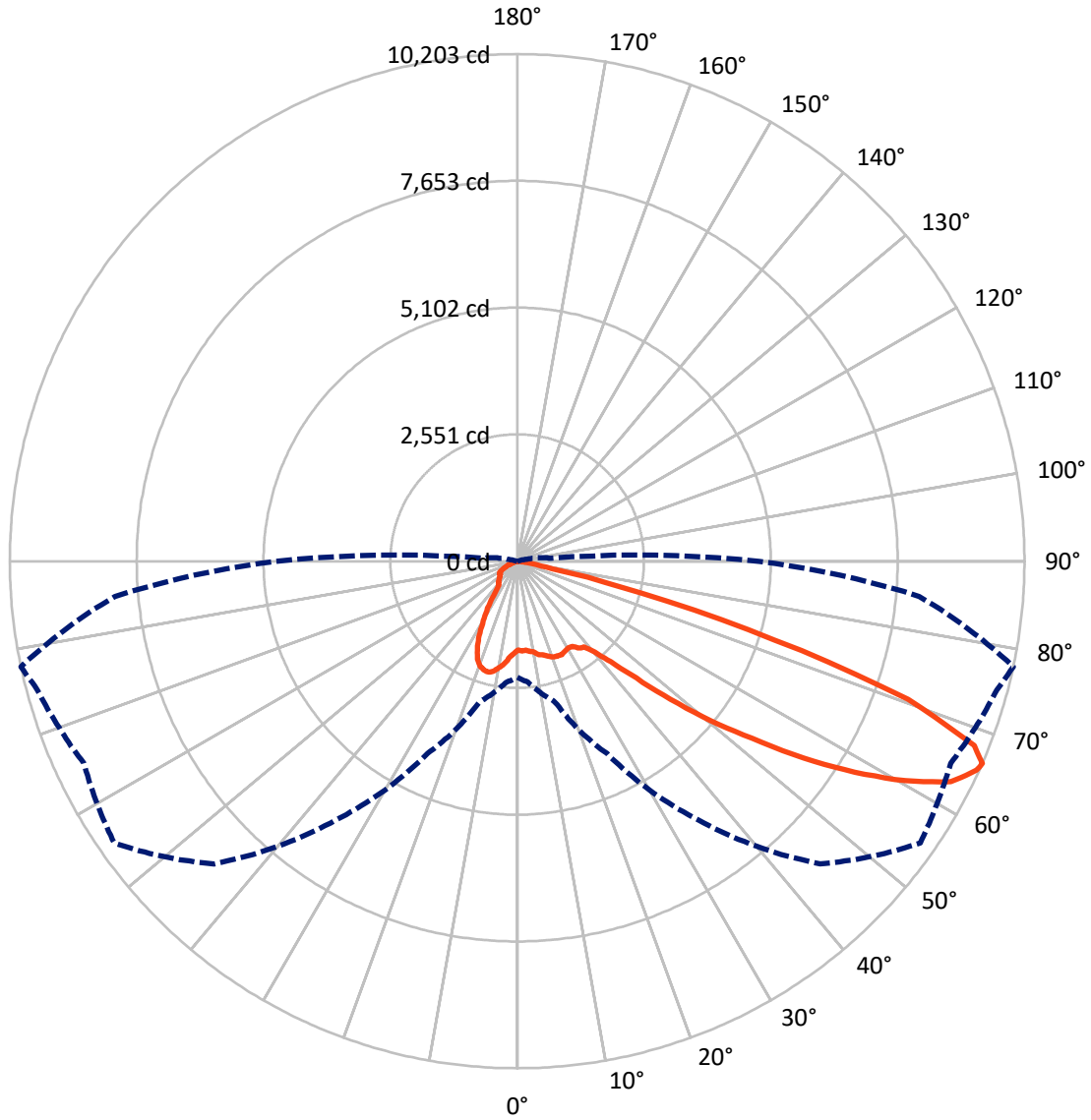
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.1 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	784.7	0.0	784.7
	% Fixture	7.0	0.0	7.0
Street Side	Lumens	10376.8	0.0	10376.8
	% Fixture	93.0	0.0	93.0
Total	Lumens	11161.5	0.0	11161.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	163.5	1.5
10°-20°	369.2	3.3
20°-30°	527.7	4.7
30°-40°	903.3	8.1
40°-50°	1630.3	14.6
50°-60°	2788.0	25.0
60°-70°	3431.5	30.7
70°-80°	1297.3	11.6
80°-90°	50.7	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°	11161.5	100.0
0°-180°	11161.5	100.0

Coefficient of Utilization

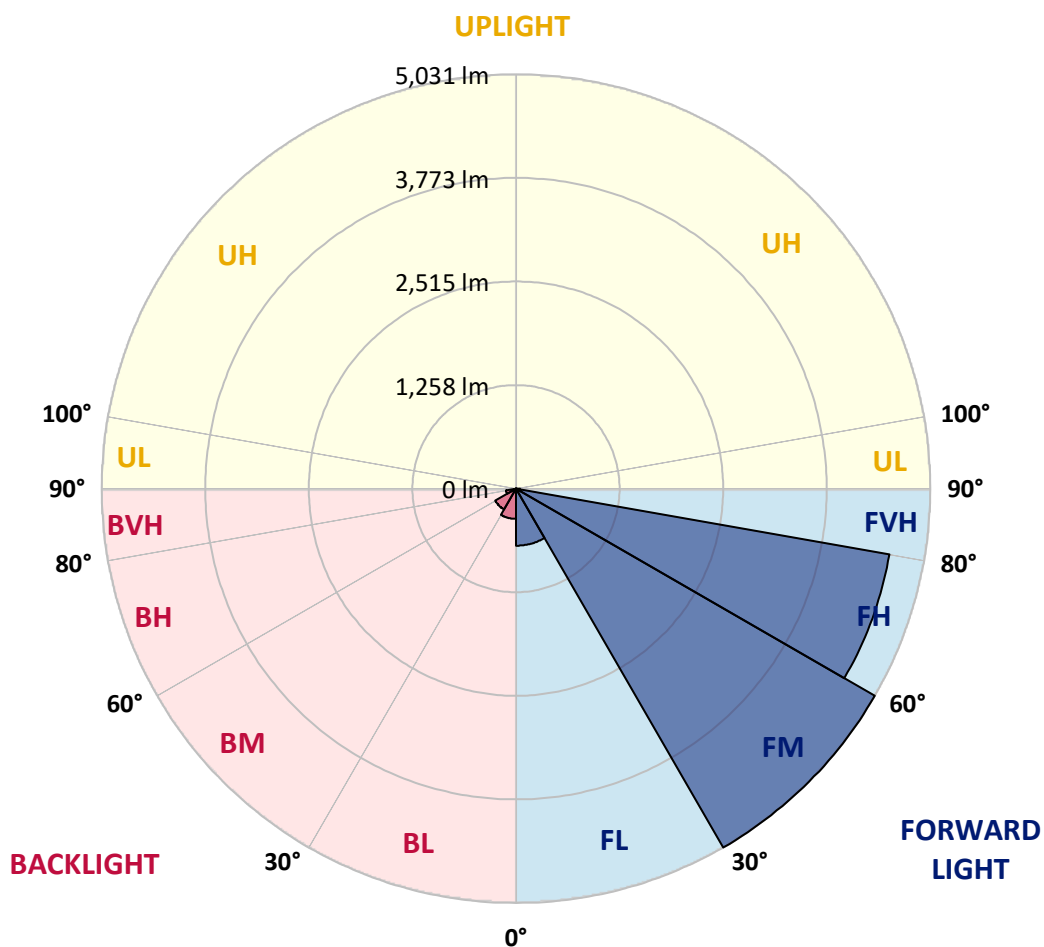


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	692.9	6.2			
FM (30°-60°)	5030.7	45.1			
FH (60°-80°)	4604.5	41.3			G2/5000
FVH (80°-90°)	48.6	0.4			G1/100
BL (0°-30°)	367.5	3.3	B1/500		
BM (30°-60°)	290.8	2.6	B1/1000		
BH (60°-80°)	124.3	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°	1787.7	1787.7	1787.7	1787.7	1787.7	1787.7	1787.7	1787.7	1787.7	1787.7	1787.7
2.5°	1644.4	1629.2	1644.4	1666.3	1678.1	1688.2	1723.6	1754.0	1786.0	1807.9	1801.2
5°	1524.6	1553.3	1556.7	1563.4	1582.0	1642.7	1662.9	1715.2	1794.5	1801.2	1831.6
7.5°	1430.2	1421.7	1443.7	1487.5	1534.7	1570.1	1629.2	1720.2	1802.9	1831.6	1890.6
10°	1293.6	1310.4	1334.0	1377.9	1435.2	1522.9	1627.5	1728.7	1846.7	1856.9	1966.5
12.5°	1219.4	1202.5	1239.6	1285.1	1382.9	1463.9	1592.1	1713.5	1873.7	1929.4	2055.9
15°	1158.6	1167.1	1202.5	1232.8	1313.8	1416.7	1566.8	1750.6	1919.3	1958.0	2150.3
17.5°	1133.3	1128.3	1155.3	1185.6	1285.1	1401.5	1556.7	1752.3	1959.7	2010.3	2214.4
20°	1145.1	1155.3	1146.8	1175.5	1237.9	1356.0	1571.8	1784.3	1990.1	2059.2	2283.5
22.5°	1330.7	1317.2	1249.7	1195.7	1199.1	1337.4	1560.0	1804.6	2017.1	2072.7	2330.8
25°	1814.7	1742.2	1575.2	1367.8	1231.2	1286.8	1546.5	1797.8	2012.0	2081.2	2359.4
27.5°	2302.1	2239.7	2076.1	1754.0	1361.0	1266.6	1499.3	1802.9	1986.7	2050.8	2312.2
30°	2816.5	2850.2	2607.4	2224.5	1701.7	1377.9	1469.0	1775.9	1969.9	2023.8	2322.3
32.5°	3344.4	3330.9	3184.1	2769.3	2189.1	1624.1	1517.9	1802.9	1991.8	2044.1	2381.4
35°	3757.6	3710.3	3561.9	3187.5	2592.2	1995.2	1686.5	1931.1	2087.9	2150.3	2465.7
37.5°	3961.6	3981.9	3895.9	3570.4	3034.0	2339.2	1897.3	1931.1	2118.3	2190.8	2602.3
40°	4120.2	4180.9	4148.8	4044.3	3472.5	2727.1	2130.1	2050.8	2271.7	2408.3	2858.6
42.5°	4310.7	4282.1	4471.0	4374.8	4046.0	3216.2	2538.2	2335.8	2634.3	2765.9	3243.2
45°	4411.9	4521.6	4664.9	4788.0	4577.2	3826.7	3071.2	2840.1	3189.2	3356.2	3814.9
47.5°	4671.7	4715.5	4948.2	5103.4	5009.0	4524.9	3880.7	3577.1	3887.4	4150.5	4469.3
50°	4823.4	4764.4	5089.9	5326.0	5380.0	5103.4	4605.9	4369.8	4717.2	5052.8	5081.5
52.5°	4690.2	4858.9	5184.4	5607.7	5757.8	5619.5	5457.6	5354.7	5599.2	5909.6	5771.3
55°	4223.0	4337.7	5130.4	5916.3	6400.3	6336.3	6486.4	6418.9	6665.1	6994.0	6577.4
57.5°	3847.0	3990.3	4686.8	6076.5	6999.1	7187.9	7376.8	7334.7	7631.5	8011.0	7260.5
60°	3612.5	3695.2	4366.4	6036.1	7353.2	8068.3	8495.0	8198.2	8682.2	8972.3	7795.1
62.5°	3206.1	3258.4	3899.2	5499.7	7459.5	8690.6	9414.1	9011.1	9431.0	9785.2	8179.6
65°	2570.3	2711.9	3241.5	4697.0	6757.9	8805.3	9987.6	9513.7	9920.1	10152.8	8296.0
66°	2339.2	2442.1	2927.8	4272.0	6358.2	8614.7	9891.4	9618.2	9990.9	10203.4	8117.2
67.5°	1941.2	2030.6	2416.8	3666.5	5540.2	8194.8	9958.9	9547.4	10044.9	9915.0	7877.7
70°	1285.1	1342.5	1652.8	2479.2	3858.8	6703.9	9237.1	8994.2	8830.6	8343.2	6159.2
72.5°	600.4	683.0	1032.1	1502.7	2263.3	4690.2	7532.0	7206.5	6192.9	5413.7	3885.7
75°	271.5	308.6	566.7	861.8	1015.3	2430.3	4858.9	4388.3	3083.0	2560.1	1701.7
77.5°	146.7	167.0	276.6	409.8	369.3	851.7	2405.0	2000.2	971.4	711.7	494.2
80°	113.0	133.2	231.1	234.4	136.6	220.9	893.9	619.0	242.9	183.8	118.1
82.5°	59.0	84.3	182.1	151.8	69.1	89.4	276.6	172.0	75.9	60.7	50.6
85°	23.6	37.1	102.9	101.2	40.5	30.4	77.6	52.3	30.4	25.3	23.6
87.5°	1.7	1.7	55.7	38.8	25.3	8.4	11.8	11.8	15.2	13.5	16.9
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°	1787.7	1787.7	1787.7	1787.7	1787.7	1787.7	1787.7	1787.7	1787.7	1787.7	1787.7
2.5°	1831.6	1851.8	1855.2	1910.8	1922.6	1910.8	1941.2	1936.1	1949.6	1939.5	1920.9
5°	1873.7	1902.4	1958.0	2000.2	2000.2	1966.5	1939.5	1904.1	1851.8	1838.3	1828.2
7.5°	1946.2	2037.3	2087.9	2060.9	2007.0	1880.5	1705.1	1576.9	1469.0	1428.5	1409.9
10°	2074.4	2125.0	2184.0	2074.4	1850.1	1582.0	1286.8	1092.9	941.1	907.3	882.0
12.5°	2157.1	2238.0	2271.7	2000.2	1560.0	1160.3	839.9	620.6	514.4	433.4	419.9
15°	2265.0	2357.8	2288.6	1799.5	1229.5	760.6	435.1	271.5	220.9	207.4	207.4
17.5°	2339.2	2440.4	2219.5	1549.9	871.9	404.8	215.9	187.2	183.8	185.5	182.1
20°	2469.1	2529.8	2114.9	1259.8	521.1	207.4	173.7	167.0	163.6	168.7	165.3
22.5°	2518.0	2573.6	1944.6	912.4	234.4	138.3	129.9	124.8	128.2	126.5	124.8
25°	2514.6	2543.3	1664.6	522.8	69.1	54.0	48.9	48.9	45.5	47.2	45.5
27.5°	2539.9	2469.1	1350.9	155.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30°	2553.4	2349.3	961.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	2560.1	2286.9	619.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	2612.4	2162.1	264.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	2647.8	2001.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	2794.6	1951.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	2985.1	1856.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	3249.9	1716.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	3600.7	1634.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	3862.1	1504.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	4194.4	1426.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	4589.0	1430.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	4948.2	1406.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	5132.1	1202.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	5093.3	973.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	4958.4	764.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	4865.6	676.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	4584.0	541.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	3647.9	371.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	2320.7	227.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	1069.3	104.6	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	335.6	64.1	13.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	87.7	40.5	13.5	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	45.5	28.7	11.8	5.1	3.4	0.0	0.0	0.0	0.0	0.0	0.0
85°	28.7	11.8	5.1	3.4	3.4	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	25.3	6.7	3.4	3.4	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)