

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: P482872

Luminaire Tested: **IFLD-S-SA2C-750-U-T3R-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P482872
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2C-750-U-T3R-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R
distribution lens with House Side Shield
Light Source: (32) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

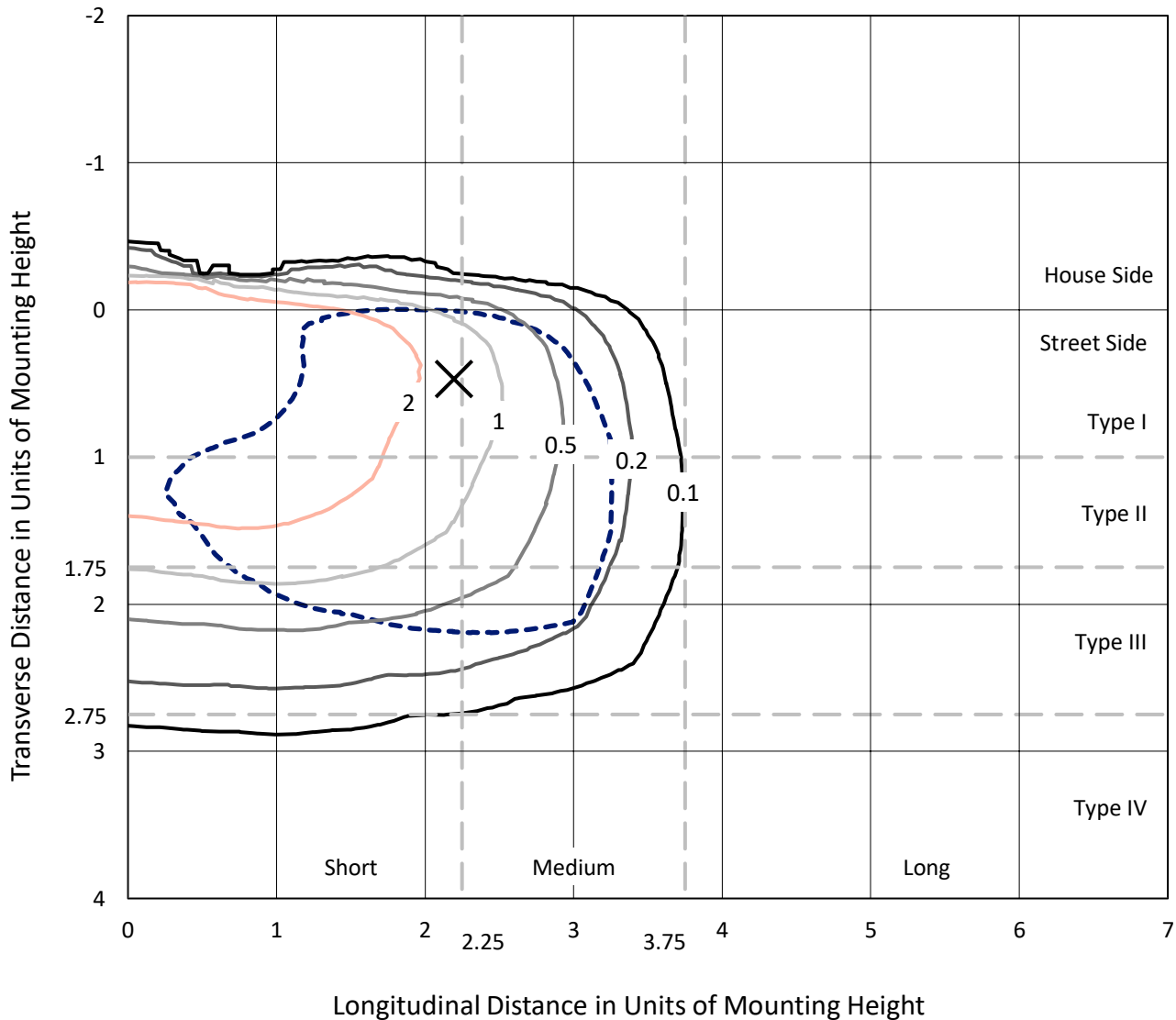
Lumens per Lamp: N/A
Luminaire Lumens: 10421.8 lumens
Efficiency: N/A
Efficacy: 96.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 108.2
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

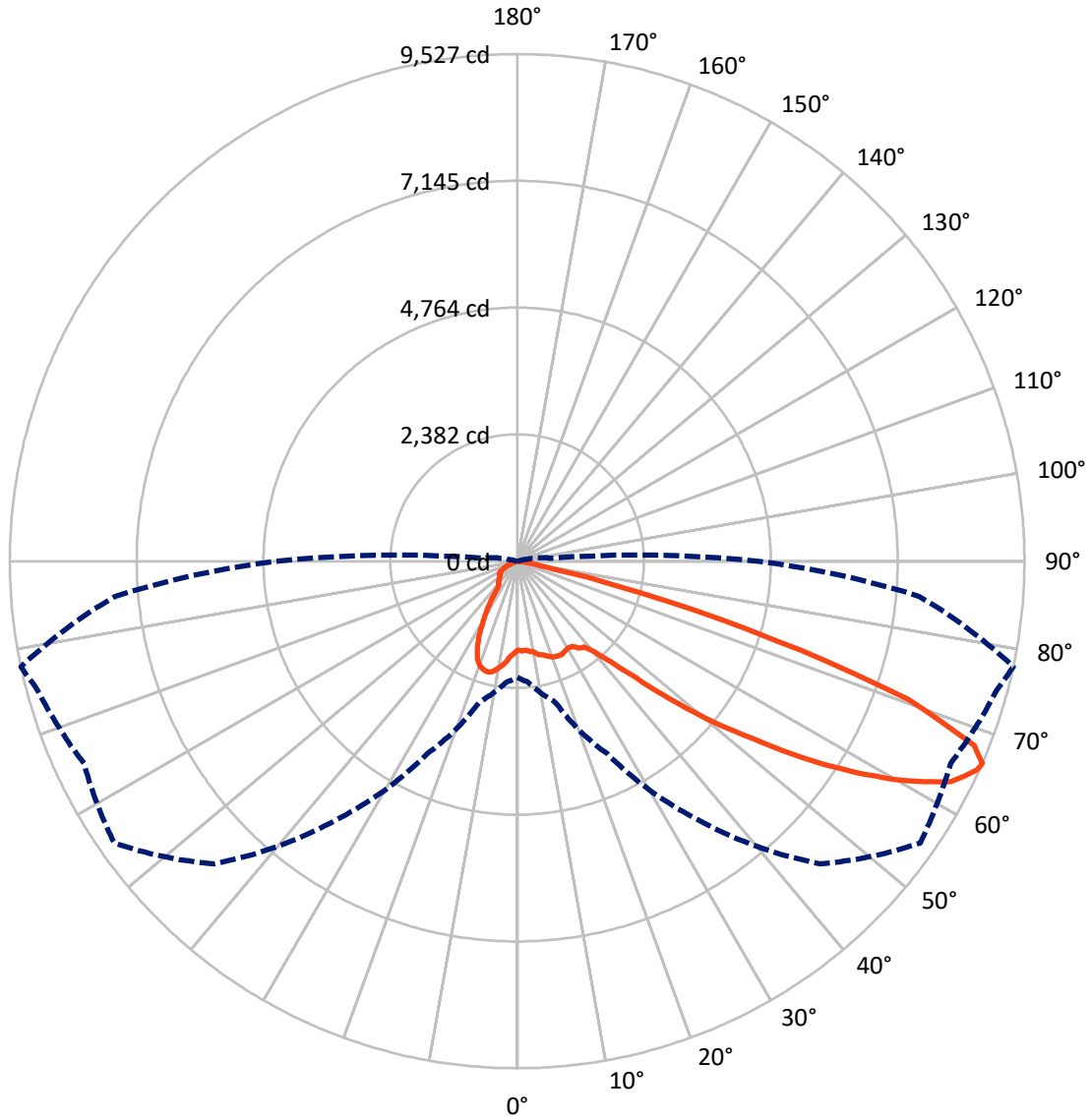
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.8 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	732.7	0.0	732.7
	% Fixture	7.0	0.0	7.0
Street Side	Lumens	9689.1	0.0	9689.1
	% Fixture	93.0	0.0	93.0
Total	Lumens	10421.8	0.0	10421.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	152.7	1.5
10°-20°	344.7	3.3
20°-30°	492.7	4.7
30°-40°	843.4	8.1
40°-50°	1522.2	14.6
50°-60°	2603.2	25.0
60°-70°	3204.1	30.7
70°-80°	1211.3	11.6
80°-90°	47.3	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°	10421.8	100.0
0°-180°	10421.8	100.0

Coefficient of Utilization

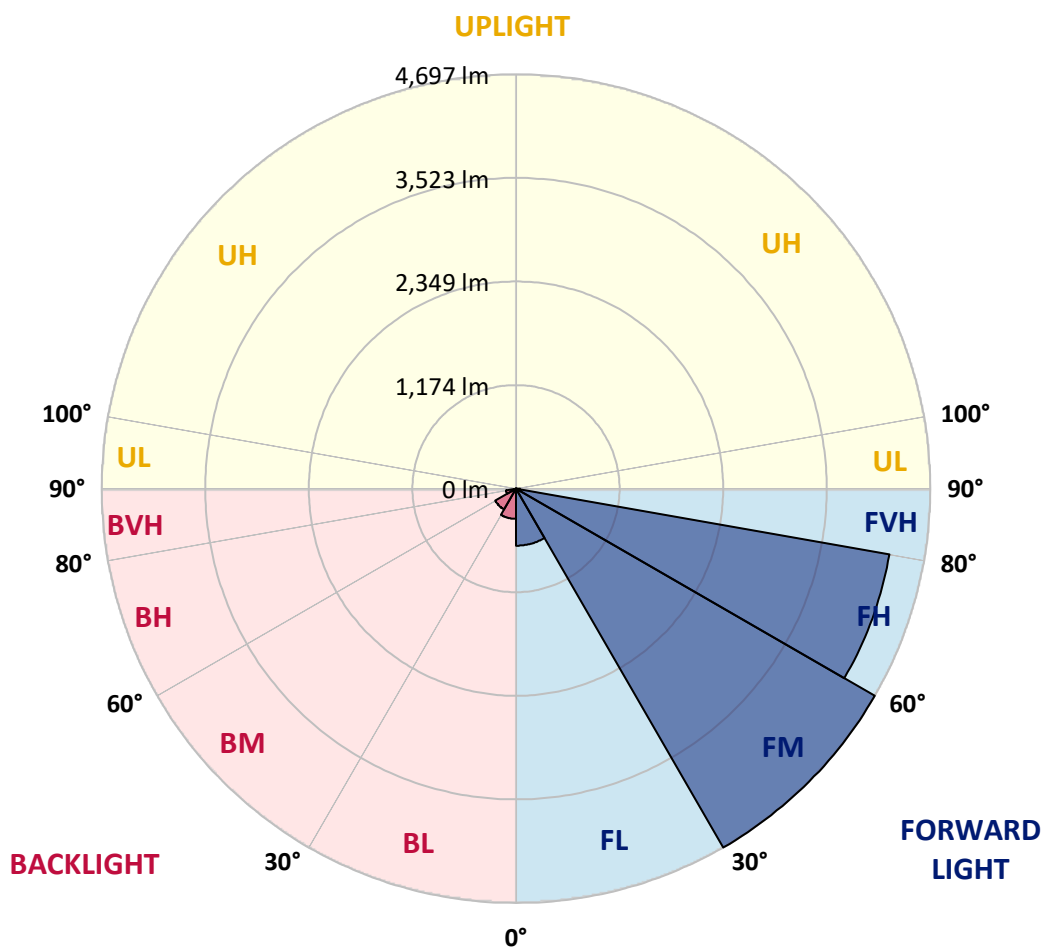


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	647.0	6.2			
FM (30°-60°)	4697.3	45.1			
FH (60°-80°)	4299.4	41.3			G2/5000
FVH (80°-90°)	45.4	0.4			G1/100
BL (0°-30°)	343.2	3.3	B1/500		
BM (30°-60°)	271.6	2.6	B1/1000		
BH (60°-80°)	116.1	1.1	B1/500		G1/500
BVH (80°-90°)	1.9	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	1669.2	1669.2	1669.2	1669.2	1669.2	1669.2	1669.2	1669.2	1669.2	1669.2	1669.2
2.5°	1535.4	1521.2	1535.4	1555.8	1566.9	1576.3	1609.4	1637.7	1667.7	1688.1	1681.8
5°	1423.6	1450.3	1453.5	1459.8	1477.1	1533.8	1552.7	1601.5	1675.5	1681.8	1710.2
7.5°	1335.4	1327.5	1348.0	1388.9	1433.0	1466.1	1521.2	1606.2	1683.4	1710.2	1765.3
10°	1207.8	1223.6	1245.6	1286.6	1340.1	1422.0	1519.6	1614.1	1724.3	1733.8	1836.1
12.5°	1138.5	1122.8	1157.4	1200.0	1291.3	1366.9	1486.6	1599.9	1749.5	1801.5	1919.6
15°	1081.8	1089.7	1122.8	1151.1	1226.7	1322.8	1462.9	1634.6	1792.1	1828.3	2007.8
17.5°	1058.2	1053.5	1078.7	1107.0	1200.0	1308.6	1453.5	1636.2	1829.9	1877.1	2067.6
20°	1069.3	1078.7	1070.8	1097.6	1155.9	1266.1	1467.7	1666.1	1858.2	1922.8	2132.2
22.5°	1242.5	1229.9	1166.9	1116.5	1119.6	1248.8	1456.6	1685.0	1883.4	1935.4	2176.3
25°	1694.4	1626.7	1470.8	1277.1	1149.6	1201.5	1444.0	1678.7	1878.7	1943.2	2203.1
27.5°	2149.5	2091.3	1938.5	1637.7	1270.8	1182.6	1399.9	1683.4	1855.0	1914.9	2159.0
30°	2629.8	2661.3	2434.6	2077.1	1588.9	1286.6	1371.6	1658.2	1839.3	1889.7	2168.4
32.5°	3122.7	3110.1	2973.1	2585.7	2044.0	1516.5	1417.3	1683.4	1859.8	1908.6	2223.5
35°	3508.5	3464.4	3325.9	2976.3	2420.4	1862.9	1574.7	1803.1	1949.5	2007.8	2302.3
37.5°	3699.1	3718.0	3637.7	3333.7	2833.0	2184.2	1771.6	1803.1	1977.9	2045.6	2429.8
40°	3847.1	3903.8	3873.9	3776.2	3242.4	2546.4	1988.9	1914.9	2121.2	2248.7	2669.2
42.5°	4025.0	3998.3	4174.6	4084.9	3777.8	3003.0	2370.0	2181.0	2459.7	2582.6	3028.2
45°	4119.5	4221.9	4355.7	4470.7	4273.9	3573.1	2867.6	2651.9	2977.8	3133.7	3562.1
47.5°	4362.0	4403.0	4620.3	4765.2	4677.0	4225.0	3623.5	3340.0	3629.8	3875.4	4173.1
50°	4503.8	4448.6	4752.6	4973.0	5023.4	4765.2	4300.6	4080.2	4404.6	4717.9	4744.7
52.5°	4379.4	4536.8	4840.8	5236.0	5376.2	5247.0	5095.9	4999.8	5228.1	5517.9	5388.8
55°	3943.2	4050.2	4790.4	5524.2	5976.1	5916.3	6056.5	5993.5	6223.4	6530.5	6141.5
57.5°	3592.0	3725.8	4376.2	5673.8	6535.2	6711.6	6887.9	6848.6	7125.7	7480.0	6779.3
60°	3373.1	3450.3	4077.0	5636.0	6865.9	7533.6	7932.0	7654.8	8106.8	8377.6	7278.5
62.5°	2993.6	3042.4	3640.8	5135.2	6965.1	8114.6	8790.2	8413.8	8806.0	9136.7	7637.5
65°	2399.9	2532.2	3026.7	4385.7	6310.0	8221.7	9325.6	8883.1	9262.6	9479.9	7746.2
66°	2184.2	2280.2	2733.8	3988.8	5936.8	8043.8	9235.9	8980.8	9328.8	9527.2	7579.2
67.5°	1812.5	1896.0	2256.6	3423.5	5173.0	7651.7	9298.9	8914.6	9379.2	9257.9	7355.6
70°	1200.0	1253.5	1543.2	2314.9	3603.0	6259.6	8624.9	8398.1	8245.4	7790.3	5751.0
72.5°	560.6	637.8	963.7	1403.1	2113.3	4379.4	7032.8	6728.9	5782.5	5054.9	3628.2
75°	253.5	288.2	529.1	804.7	948.0	2269.2	4536.8	4097.5	2878.6	2390.5	1588.9
77.5°	137.0	155.9	258.3	382.7	344.9	795.2	2245.6	1867.6	907.1	664.5	461.4
80°	105.5	124.4	215.7	218.9	127.6	206.3	834.6	577.9	226.8	171.6	110.2
82.5°	55.1	78.7	170.1	141.7	64.6	83.5	258.3	160.6	70.9	56.7	47.2
85°	22.0	34.6	96.1	94.5	37.8	28.3	72.4	48.8	28.3	23.6	22.0
87.5°	1.6	1.6	52.0	36.2	23.6	7.9	11.0	11.0	14.2	12.6	15.7
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°	1669.2	1669.2	1669.2	1669.2	1669.2	1669.2	1669.2	1669.2	1669.2	1669.2	1669.2
2.5°	1710.2	1729.1	1732.2	1784.2	1795.2	1784.2	1812.5	1807.8	1820.4	1811.0	1793.6
5°	1749.5	1776.3	1828.3	1867.6	1867.6	1836.1	1811.0	1777.9	1729.1	1716.5	1707.0
7.5°	1817.3	1902.3	1949.5	1924.3	1873.9	1755.8	1592.1	1472.4	1371.6	1333.8	1316.5
10°	1936.9	1984.2	2039.3	1936.9	1727.5	1477.1	1201.5	1020.4	878.7	847.2	823.6
12.5°	2014.1	2089.7	2121.2	1867.6	1456.6	1083.4	784.2	579.5	480.3	404.7	392.1
15°	2114.9	2201.5	2136.9	1680.3	1148.0	710.2	406.3	253.5	206.3	193.7	193.7
17.5°	2184.2	2278.7	2072.4	1447.2	814.1	377.9	201.6	174.8	171.6	173.2	170.1
20°	2305.4	2362.1	1974.7	1176.3	486.6	193.7	162.2	155.9	152.8	157.5	154.3
22.5°	2351.1	2403.1	1815.7	851.9	218.9	129.1	121.3	116.5	119.7	118.1	116.5
25°	2347.9	2374.7	1554.3	488.2	64.6	50.4	45.7	45.7	42.5	44.1	42.5
27.5°	2371.6	2305.4	1261.4	144.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30°	2384.2	2193.6	897.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	2390.5	2135.4	577.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	2439.3	2018.8	247.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	2472.3	1869.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	2609.3	1822.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	2787.3	1733.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	3034.5	1603.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	3362.1	1525.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	3606.2	1404.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	3916.4	1332.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	4284.9	1335.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	4620.3	1313.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	4791.9	1122.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	4755.7	908.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	4629.7	713.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	4543.1	631.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	4280.1	505.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	3406.2	346.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	2166.8	212.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	998.4	97.6	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	313.4	59.8	12.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	81.9	37.8	12.6	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	42.5	26.8	11.0	4.7	3.1	0.0	0.0	0.0	0.0	0.0	0.0
85°	26.8	11.0	4.7	3.1	3.1	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	23.6	6.3	3.1	3.1	1.6	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)