

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: P482973

Luminaire Tested: **IFLD-M-SA4A-827-U-T3R-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P482973
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4A-827-U-T3R-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R distribution lens with House Side Shield
Light Source: (64) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

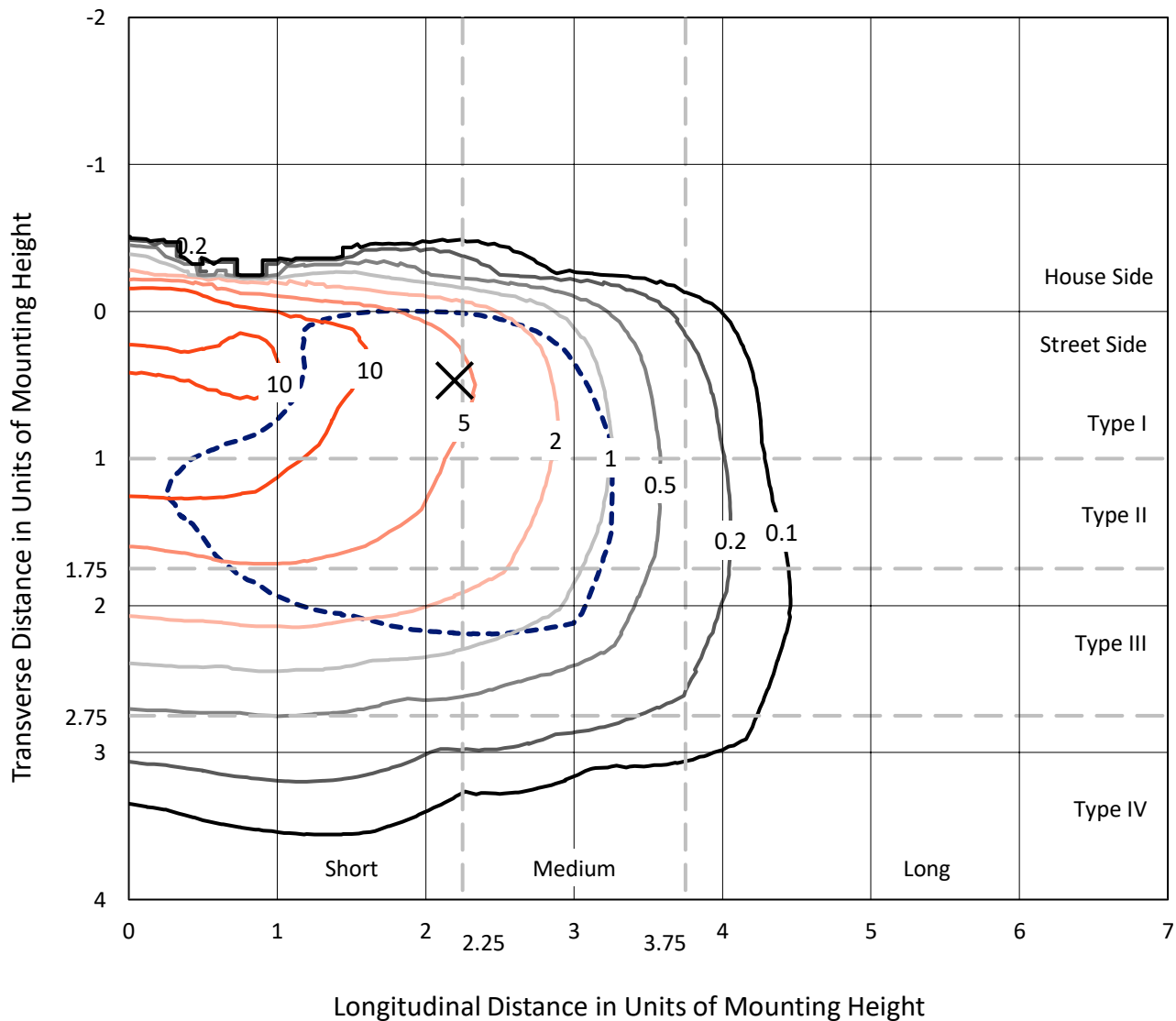
Lumens per Lamp: N/A
Luminaire Lumens: 9731.1 lumens
Efficiency: N/A
Efficacy: 75.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 128.6
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

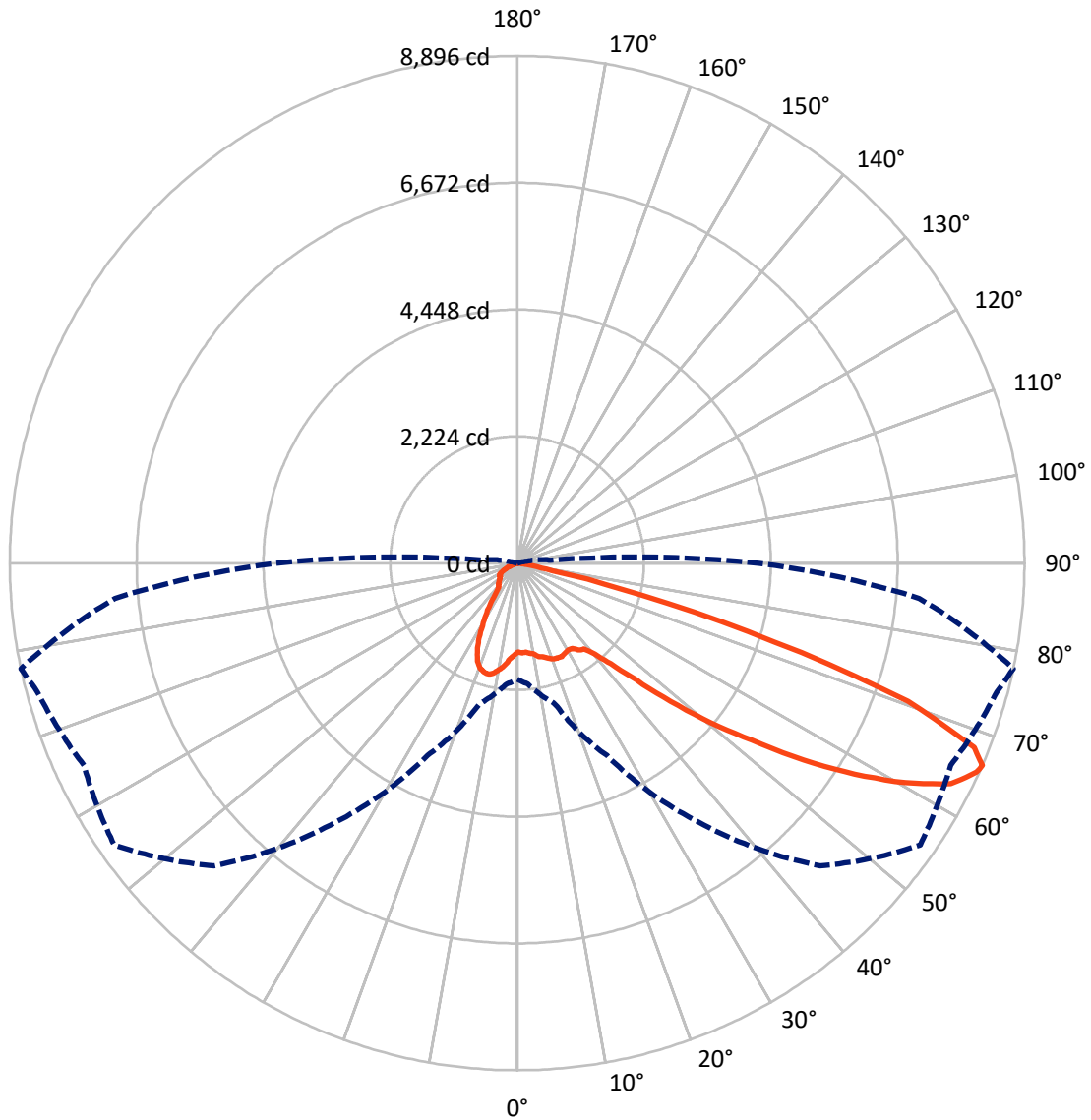
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 17.7 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	684.1	0.0	684.1
	% Fixture	7.0	0.0	7.0
Street Side	Lumens	9046.9	0.0	9046.9
	% Fixture	93.0	0.0	93.0
Total	Lumens	9731.1	0.0	9731.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.6	1.5
10°-20°	321.9	3.3
20°-30°	460.1	4.7
30°-40°	787.5	8.1
40°-50°	1421.4	14.6
50°-60°	2430.7	25.0
60°-70°	2991.8	30.7
70°-80°	1131.1	11.6
80°-90°	44.2	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°	9731.1	100.0
0°-180°	9731.1	100.0

Coefficient of Utilization

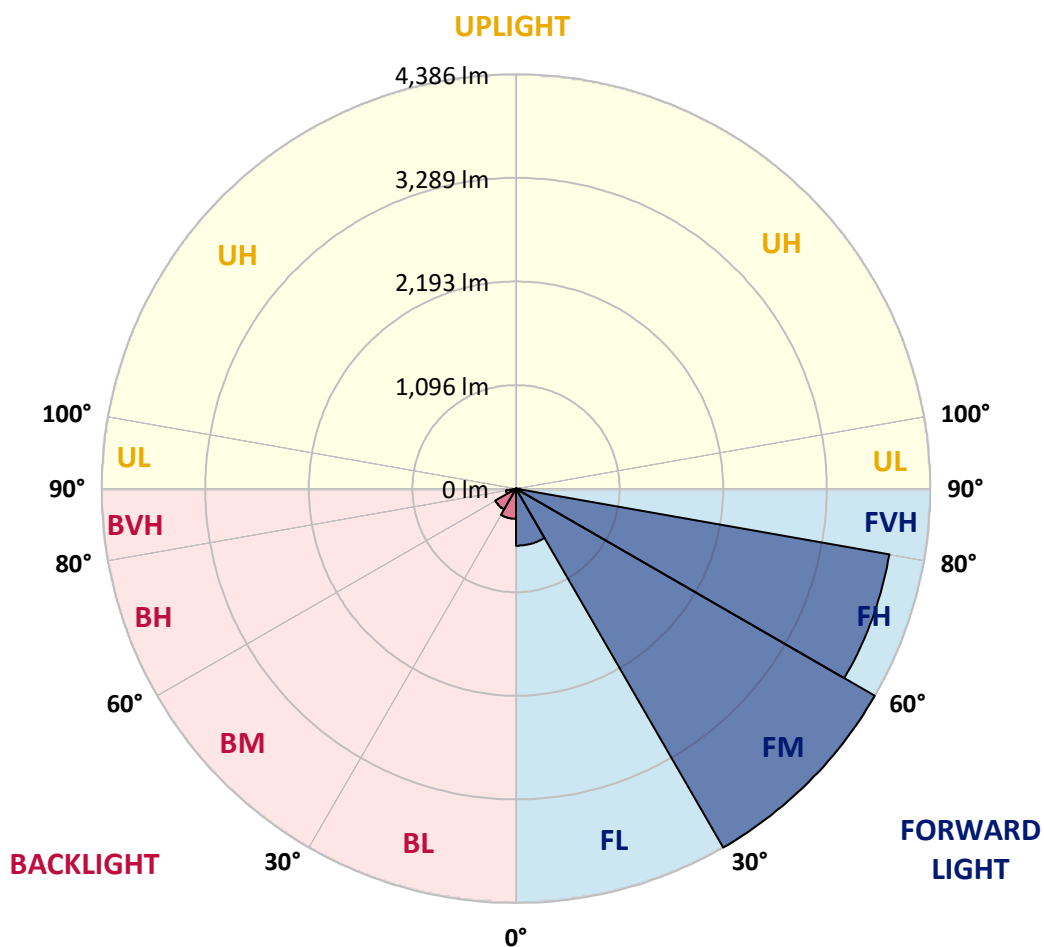


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	604.1	6.2			
FM (30°-60°)	4386.0	45.1			
FH (60°-80°)	4014.4	41.3			G2/5000
FVH (80°-90°)	42.4	0.4			G1/100
BL (0°-30°)	320.4	3.3	B1/500		
BM (30°-60°)	253.6	2.6	B1/1000		
BH (60°-80°)	108.4	1.1	B0/110		G0/110
BVH (80°-90°)	1.8	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°	1558.6	1558.6	1558.6	1558.6	1558.6	1558.6	1558.6	1558.6	1558.6	1558.6	1558.6
2.5°	1433.6	1420.4	1433.6	1452.7	1463.0	1471.9	1502.7	1529.2	1557.1	1576.2	1570.4
5°	1329.2	1354.2	1357.2	1363.0	1379.2	1432.2	1449.8	1495.4	1564.5	1570.4	1596.8
7.5°	1246.9	1239.5	1258.6	1296.9	1338.0	1368.9	1420.4	1499.8	1571.8	1596.8	1648.3
10°	1127.8	1142.5	1163.1	1201.3	1251.3	1327.8	1418.9	1507.1	1610.1	1618.9	1714.5
12.5°	1063.1	1048.4	1080.7	1120.4	1205.7	1276.3	1388.0	1493.9	1633.6	1682.1	1792.4
15°	1010.2	1017.5	1048.4	1074.8	1145.4	1235.1	1366.0	1526.3	1673.3	1707.1	1874.7
17.5°	988.1	983.7	1007.2	1033.7	1120.4	1221.9	1357.2	1527.7	1708.6	1752.7	1930.6
20°	998.4	1007.2	999.9	1024.9	1079.3	1182.2	1370.4	1555.7	1735.0	1795.3	1990.9
22.5°	1160.1	1148.4	1089.6	1042.5	1045.4	1166.0	1360.1	1573.3	1758.6	1807.1	2032.1
25°	1582.1	1518.9	1373.3	1192.5	1073.4	1121.9	1348.3	1567.4	1754.2	1814.4	2057.1
27.5°	2007.1	1952.7	1810.0	1529.2	1186.6	1104.3	1307.2	1571.8	1732.1	1788.0	2015.9
30°	2455.5	2484.9	2273.2	1939.4	1483.6	1201.3	1280.7	1548.3	1717.4	1764.5	2024.7
32.5°	2915.8	2904.0	2776.1	2414.4	1908.6	1416.0	1323.3	1571.8	1736.5	1782.1	2076.2
35°	3276.0	3234.8	3105.4	2779.0	2260.0	1739.5	1470.4	1683.6	1820.3	1874.7	2149.7
37.5°	3453.9	3471.6	3396.6	3112.8	2645.2	2039.4	1654.2	1683.6	1846.8	1910.0	2268.8
40°	3592.1	3645.1	3617.1	3526.0	3027.5	2377.6	1857.1	1788.0	1980.6	2099.7	2492.3
42.5°	3758.3	3733.3	3898.0	3814.2	3527.4	2804.0	2212.9	2036.5	2296.7	2411.4	2827.5
45°	3846.5	3942.1	4067.1	4174.4	3990.6	3336.3	2677.6	2476.1	2780.5	2926.1	3326.0
47.5°	4073.0	4111.2	4314.1	4449.4	4367.0	3945.0	3383.3	3118.7	3389.2	3618.6	3896.5
50°	4205.3	4153.8	4437.6	4643.5	4690.5	4449.4	4015.6	3809.8	4112.7	4405.3	4430.3
52.5°	4089.1	4236.2	4519.9	4889.0	5019.9	4899.3	4758.2	4668.5	4881.7	5152.2	5031.6
55°	3681.8	3781.8	4472.9	5158.1	5580.1	5524.2	5655.1	5596.3	5810.9	6097.7	5734.5
57.5°	3353.9	3478.9	4086.2	5297.8	6102.1	6266.8	6431.4	6394.7	6653.5	6984.3	6330.0
60°	3149.6	3221.6	3806.8	5262.5	6410.9	7034.3	7406.3	7147.5	7569.5	7822.4	6796.1
62.5°	2795.2	2840.8	3399.5	4794.9	6503.5	7576.9	8207.7	7856.2	8222.4	8531.1	7131.3
65°	2240.9	2364.4	2826.1	4095.0	5891.8	7676.9	8707.6	8294.4	8648.8	8851.7	7232.8
66°	2039.4	2129.1	2552.6	3724.5	5543.3	7510.7	8623.8	8385.6	8710.5	8895.8	7076.9
67.5°	1692.4	1770.3	2107.1	3196.6	4830.2	7144.6	8682.6	8323.8	8757.6	8644.4	6868.1
70°	1120.4	1170.4	1441.0	2161.5	3364.2	5844.8	8053.3	7841.5	7698.9	7274.0	5369.8
72.5°	523.5	595.5	899.9	1310.1	1973.3	4089.1	6566.7	6282.9	5399.2	4719.9	3387.8
75°	236.7	269.1	494.0	751.4	885.2	2118.8	4236.2	3825.9	2687.9	2232.0	1483.6
77.5°	127.9	145.6	241.1	357.3	322.0	742.5	2096.8	1743.9	846.9	620.5	430.8
80°	98.5	116.2	201.4	204.4	119.1	192.6	779.3	539.6	211.7	160.3	102.9
82.5°	51.5	73.5	158.8	132.3	60.3	77.9	241.1	150.0	66.2	52.9	44.1
85°	20.6	32.3	89.7	88.2	35.3	26.5	67.6	45.6	26.5	22.1	20.6
87.5°	1.5	1.5	48.5	33.8	22.1	7.4	10.3	10.3	13.2	11.8	14.7
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°	1558.6	1558.6	1558.6	1558.6	1558.6	1558.6	1558.6	1558.6	1558.6	1558.6	1558.6
2.5°	1596.8	1614.5	1617.4	1665.9	1676.2	1665.9	1692.4	1688.0	1699.8	1690.9	1674.8
5°	1633.6	1658.6	1707.1	1743.9	1743.9	1714.5	1690.9	1660.1	1614.5	1602.7	1593.9
7.5°	1696.8	1776.2	1820.3	1796.8	1749.8	1639.5	1486.6	1374.8	1280.7	1245.4	1229.2
10°	1808.6	1852.7	1904.1	1808.6	1613.0	1379.2	1121.9	952.8	820.5	791.1	769.0
12.5°	1880.6	1951.2	1980.6	1743.9	1360.1	1011.6	732.2	541.1	448.5	377.9	366.1
15°	1974.7	2055.6	1995.3	1568.9	1071.9	663.1	379.4	236.7	192.6	180.9	180.9
17.5°	2039.4	2127.6	1935.0	1351.3	760.2	352.9	188.2	163.2	160.3	161.7	158.8
20°	2152.6	2205.6	1843.9	1098.4	454.3	180.9	151.4	145.6	142.6	147.0	144.1
22.5°	2195.3	2243.8	1695.3	795.5	204.4	120.6	113.2	108.8	111.7	110.3	108.8
25°	2192.3	2217.3	1451.3	455.8	60.3	47.1	42.6	42.6	39.7	41.2	39.7
27.5°	2214.4	2152.6	1177.8	135.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30°	2226.2	2048.2	838.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	2232.0	1993.8	539.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	2277.6	1885.0	230.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	2308.5	1745.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	2436.4	1701.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	2602.6	1618.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	2833.4	1496.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	3139.3	1424.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	3367.2	1311.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	3656.8	1243.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	4000.9	1246.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	4314.1	1226.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	4474.4	1048.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	4440.5	848.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	4322.9	666.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	4242.0	589.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	3996.5	472.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	3180.4	323.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	2023.2	198.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	932.2	91.2	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	292.6	55.9	11.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	76.5	35.3	11.8	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	39.7	25.0	10.3	4.4	2.9	0.0	0.0	0.0	0.0	0.0	0.0
85°	25.0	10.3	4.4	2.9	2.9	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	22.1	5.9	2.9	2.9	1.5	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)