

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: P482817

Luminaire Tested: **IFLD-M-SA4A-735-U-T3R-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P482817
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4A-735-U-T3R-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R distribution lens with House Side Shield
Light Source: (64) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

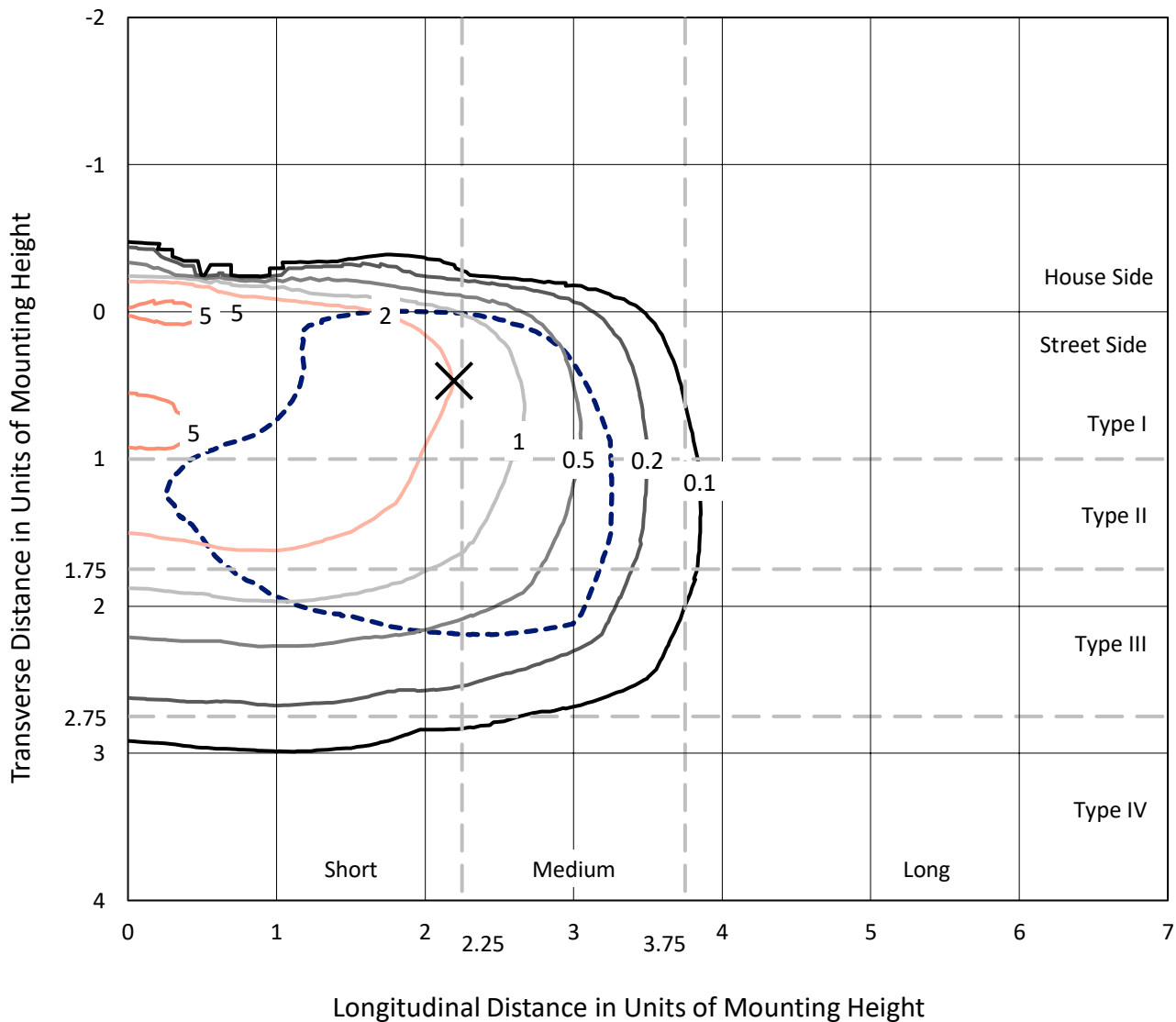
Lumens per Lamp: N/A
Luminaire Lumens: 13056.4 lumens
Efficiency: N/A
Efficacy: 101.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G3

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

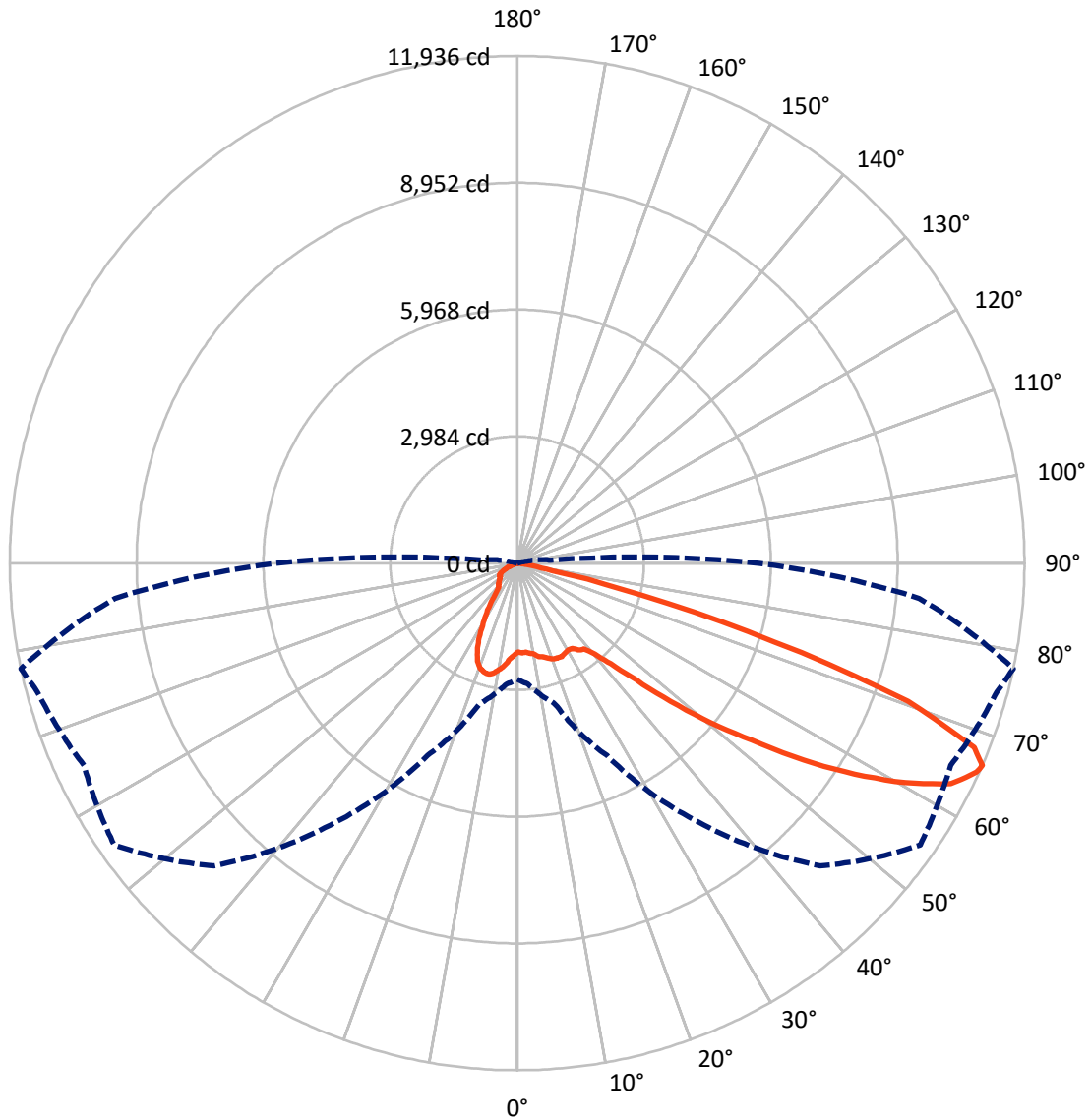
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6 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	917.9	0.0	917.9
	% Fixture	7.0	0.0	7.0
Street Side	Lumens	12138.5	0.0	12138.5
	% Fixture	93.0	0.0	93.0
Total	Lumens	13056.4	0.0	13056.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	191.3	1.5
10°-20°	431.9	3.3
20°-30°	617.3	4.7
30°-40°	1056.6	8.1
40°-50°	1907.1	14.6
50°-60°	3261.3	25.0
60°-70°	4014.1	30.7
70°-80°	1517.6	11.6
80°-90°	59.3	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°	13056.4	100.0
0°-180°	13056.4	100.0

Coefficient of Utilization

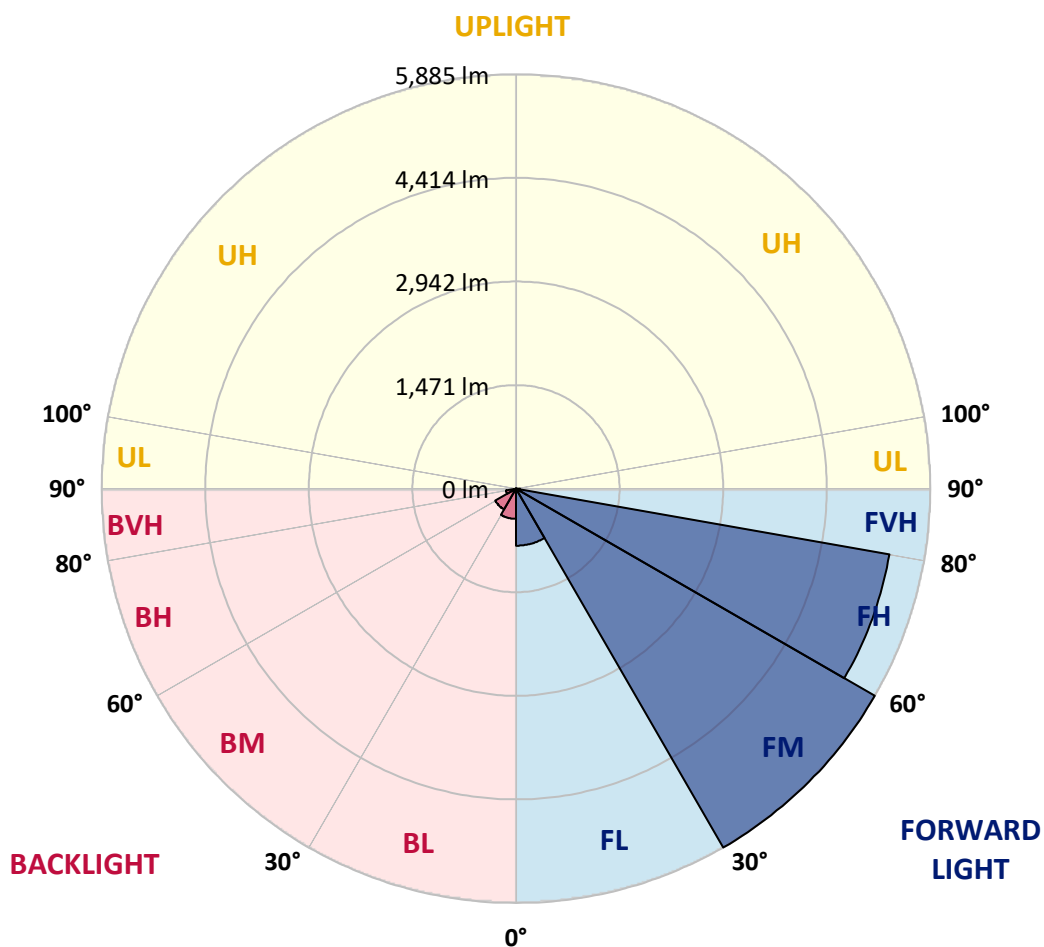


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	810.5	6.2			
FM (30°-60°)	5884.8	45.1			
FH (60°-80°)	5386.3	41.3			G3/7500
FVH (80°-90°)	56.9	0.4			G1/100
BL (0°-30°)	429.9	3.3	B1/500		
BM (30°-60°)	340.2	2.6	B1/1000		
BH (60°-80°)	145.4	1.1	B1/500		G1/500
BVH (80°-90°)	2.4	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-G3
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	2091.2	2091.2	2091.2	2091.2	2091.2	2091.2	2091.2	2091.2	2091.2	2091.2	2091.2
2.5°	1923.5	1905.8	1923.5	1949.2	1963.0	1974.8	2016.2	2051.8	2089.2	2114.9	2107.0
5°	1783.4	1817.0	1820.9	1828.8	1850.5	1921.5	1945.2	2006.4	2099.1	2107.0	2142.5
7.5°	1673.0	1663.1	1688.8	1740.0	1795.3	1836.7	1905.8	2012.3	2109.0	2142.5	2211.6
10°	1513.2	1532.9	1560.5	1611.8	1678.9	1781.5	1903.8	2022.2	2160.3	2172.1	2300.3
12.5°	1426.4	1406.6	1450.0	1503.3	1617.7	1712.4	1862.4	2004.4	2191.8	2256.9	2404.9
15°	1355.3	1365.2	1406.6	1442.1	1536.8	1657.2	1832.8	2047.8	2245.1	2290.5	2515.4
17.5°	1325.7	1319.8	1351.4	1386.9	1503.3	1639.4	1820.9	2049.8	2292.4	2351.6	2590.3
20°	1339.6	1351.4	1341.5	1375.1	1448.1	1586.2	1838.7	2087.3	2328.0	2408.8	2671.2
22.5°	1556.6	1540.8	1461.9	1398.7	1402.7	1564.5	1824.9	2110.9	2359.5	2424.6	2726.5
25°	2122.8	2037.9	1842.6	1600.0	1440.2	1505.3	1809.1	2103.0	2353.6	2434.5	2760.0
27.5°	2692.9	2619.9	2428.6	2051.8	1592.1	1481.6	1753.9	2109.0	2324.0	2399.0	2704.8
30°	3294.6	3334.1	3050.0	2602.2	1990.6	1611.8	1718.3	2077.4	2304.3	2367.4	2716.6
32.5°	3912.1	3896.4	3724.7	3239.4	2560.7	1899.8	1775.6	2109.0	2329.9	2391.1	2785.7
35°	4395.5	4340.3	4166.6	3728.7	3032.3	2333.9	1972.8	2258.9	2442.4	2515.4	2884.3
37.5°	4634.2	4657.9	4557.3	4176.5	3549.1	2736.3	2219.4	2258.9	2477.9	2562.7	3044.1
40°	4819.7	4890.7	4853.2	4730.9	4062.1	3190.1	2491.7	2399.0	2657.4	2817.2	3344.0
42.5°	5042.6	5009.0	5230.0	5117.6	4732.8	3762.2	2969.1	2732.4	3081.6	3235.5	3793.8
45°	5161.0	5289.2	5456.9	5600.9	5354.3	4476.4	3592.5	3322.3	3730.6	3926.0	4462.6
47.5°	5464.8	5516.1	5788.3	5969.8	5859.3	5293.1	4539.5	4184.4	4547.4	4855.2	5228.0
50°	5642.3	5573.3	5954.0	6230.2	6293.4	5969.8	5387.8	5111.6	5518.0	5910.6	5944.2
52.5°	5486.5	5683.8	6064.5	6559.7	6735.3	6573.5	6384.1	6263.8	6549.8	6912.8	6751.1
55°	4940.0	5074.1	6001.4	6920.7	7486.9	7412.0	7587.6	7508.6	7796.7	8181.4	7694.1
57.5°	4500.1	4667.7	5482.5	7108.1	8187.3	8408.3	8629.2	8579.9	8927.1	9371.0	8493.1
60°	4225.8	4322.5	5107.7	7060.8	8601.6	9438.1	9937.2	9590.0	10156.2	10495.5	9118.5
62.5°	3750.4	3811.5	4561.2	6433.4	8725.9	10166.1	11012.4	10540.9	11032.1	11446.4	9568.3
65°	3006.6	3172.3	3791.8	5494.4	7905.2	10300.2	11683.2	11128.8	11604.3	11876.5	9704.4
66°	2736.3	2856.7	3424.9	4997.2	7437.6	10077.3	11570.7	11251.1	11687.1	11935.7	9495.3
67.5°	2270.7	2375.3	2827.1	4289.0	6480.8	9586.0	11649.6	11168.3	11750.2	11598.3	9215.1
70°	1503.3	1570.4	1933.4	2900.1	4513.9	7842.0	10805.3	10521.2	10329.8	9759.6	7204.8
72.5°	702.3	799.0	1207.4	1757.8	2647.6	5486.5	8810.7	8430.0	7244.3	6332.8	4545.4
75°	317.6	361.0	662.9	1008.1	1187.7	2842.9	5683.8	5133.3	3606.4	2994.8	1990.6
77.5°	171.6	195.3	323.5	479.4	432.1	996.3	2813.3	2339.8	1136.4	832.5	578.0
80°	132.2	155.9	270.3	274.2	159.8	258.4	1045.6	724.0	284.1	215.0	138.1
82.5°	69.0	98.6	213.1	177.6	80.9	104.6	323.5	201.2	88.8	71.0	59.2
85°	27.6	43.4	120.3	118.4	47.3	35.5	90.8	61.2	35.5	29.6	27.6
87.5°	2.0	2.0	65.1	45.4	29.6	9.9	13.8	13.8	17.8	15.8	19.7
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°	2091.2	2091.2	2091.2	2091.2	2091.2	2091.2	2091.2	2091.2	2091.2	2091.2	2091.2
2.5°	2142.5	2166.2	2170.1	2235.2	2249.0	2235.2	2270.7	2264.8	2280.6	2268.8	2247.1
5°	2191.8	2225.4	2290.5	2339.8	2339.8	2300.3	2268.8	2227.3	2166.2	2150.4	2138.6
7.5°	2276.7	2383.2	2442.4	2410.8	2347.7	2199.7	1994.5	1844.6	1718.3	1671.0	1649.3
10°	2426.6	2485.8	2554.8	2426.6	2164.2	1850.5	1505.3	1278.4	1100.8	1061.4	1031.8
12.5°	2523.3	2618.0	2657.4	2339.8	1824.9	1357.3	982.5	726.0	601.7	507.0	491.2
15°	2649.5	2758.0	2677.1	2105.0	1438.2	889.8	509.0	317.6	258.4	242.7	242.7
17.5°	2736.3	2854.7	2596.3	1813.0	1020.0	473.5	252.5	219.0	215.0	217.0	213.1
20°	2888.2	2959.3	2473.9	1473.7	609.6	242.7	203.2	195.3	191.4	197.3	193.3
22.5°	2945.5	3010.6	2274.7	1067.3	274.2	161.8	151.9	146.0	149.9	148.0	146.0
25°	2941.5	2975.0	1947.2	611.6	80.9	63.1	57.2	57.2	53.3	55.2	53.3
27.5°	2971.1	2888.2	1580.2	181.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30°	2986.9	2748.2	1124.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	2994.8	2675.2	724.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	3055.9	2529.2	309.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	3097.4	2341.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	3269.0	2282.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	3491.9	2172.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	3801.7	2008.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	4212.0	1911.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	4517.8	1759.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	4906.5	1669.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	5368.1	1673.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	5788.3	1645.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	6003.4	1406.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	5958.0	1138.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	5800.2	893.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	5691.6	791.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	5362.2	633.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	4267.3	434.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	2714.6	266.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	1250.8	122.3	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	392.6	75.0	15.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	102.6	47.3	15.8	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	53.3	33.5	13.8	5.9	3.9	0.0	0.0	0.0	0.0	0.0	0.0
85°	33.5	13.8	5.9	3.9	3.9	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	29.6	7.9	3.9	3.9	2.0	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)