

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: P482799

Luminaire Tested: **IFLD-S-SA3C-735-U-T3R-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P482799
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3C-735-U-T3R-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R distribution lens with House Side Shield
Light Source: (48) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

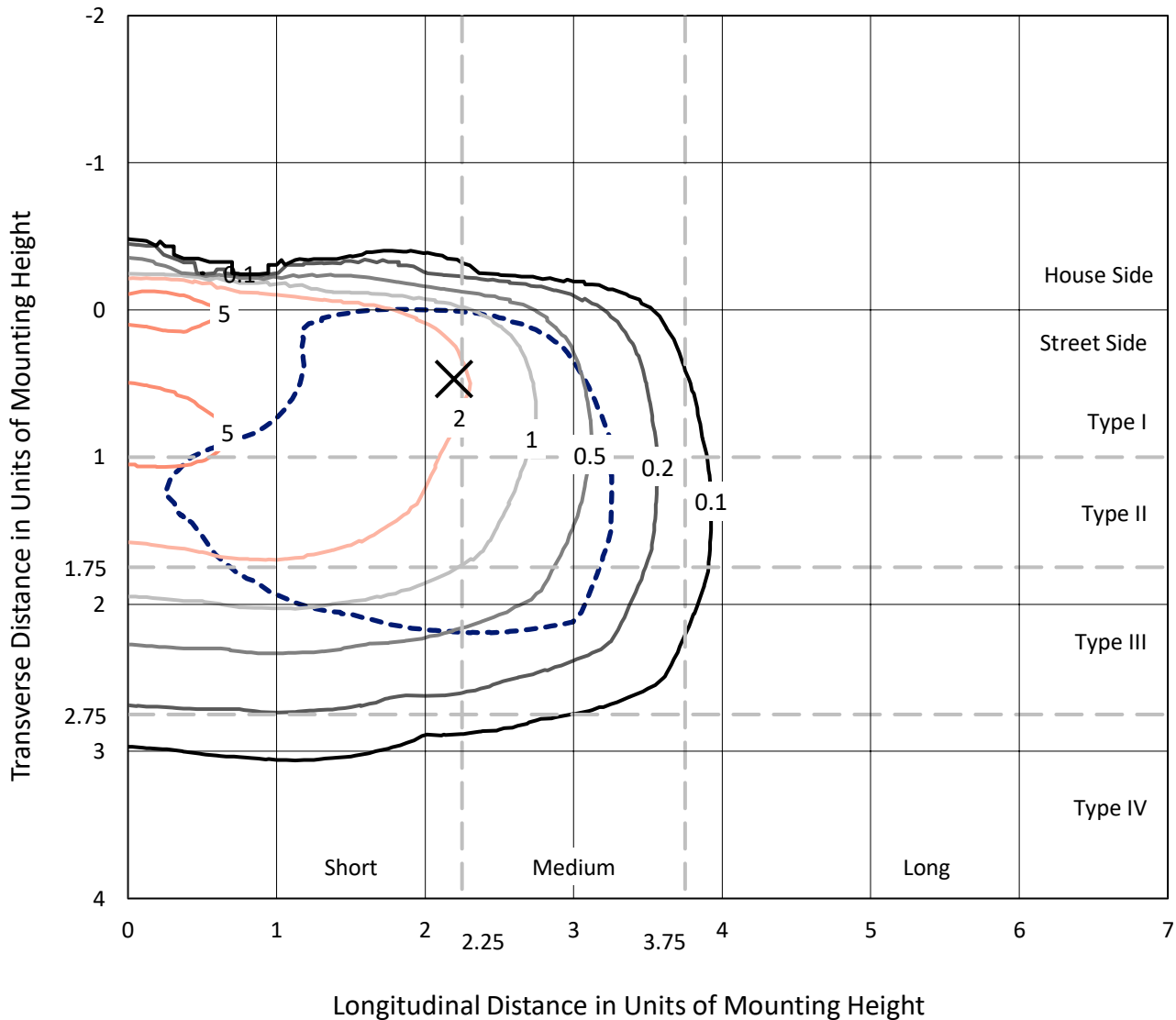
Lumens per Lamp: N/A
Luminaire Lumens: 14975.6 lumens
Efficiency: N/A
Efficacy: 93.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G3

Input Watts (W): 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

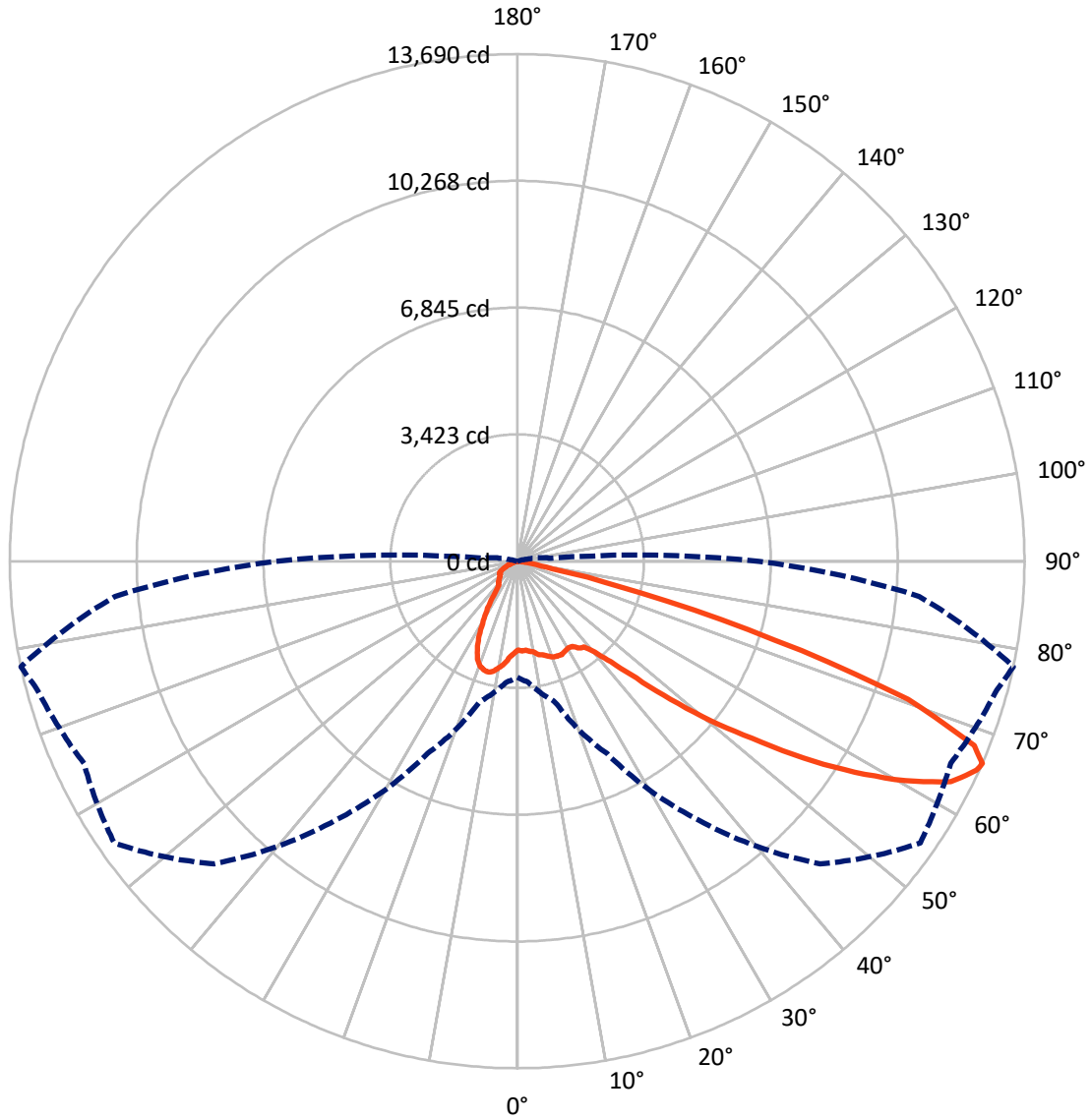
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.8 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	1052.9	0.0	1052.9
	% Fixture	7.0	0.0	7.0
Street Side	Lumens	13922.8	0.0	13922.8
	% Fixture	93.0	0.0	93.0
Total	Lumens	14975.6	0.0	14975.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	219.4	1.5
10°-20°	495.3	3.3
20°-30°	708.0	4.7
30°-40°	1211.9	8.1
40°-50°	2187.4	14.6
50°-60°	3740.7	25.0
60°-70°	4604.2	30.7
70°-80°	1740.6	11.6
80°-90°	68.0	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°	14975.6	100.0
0°-180°	14975.6	100.0

Coefficient of Utilization

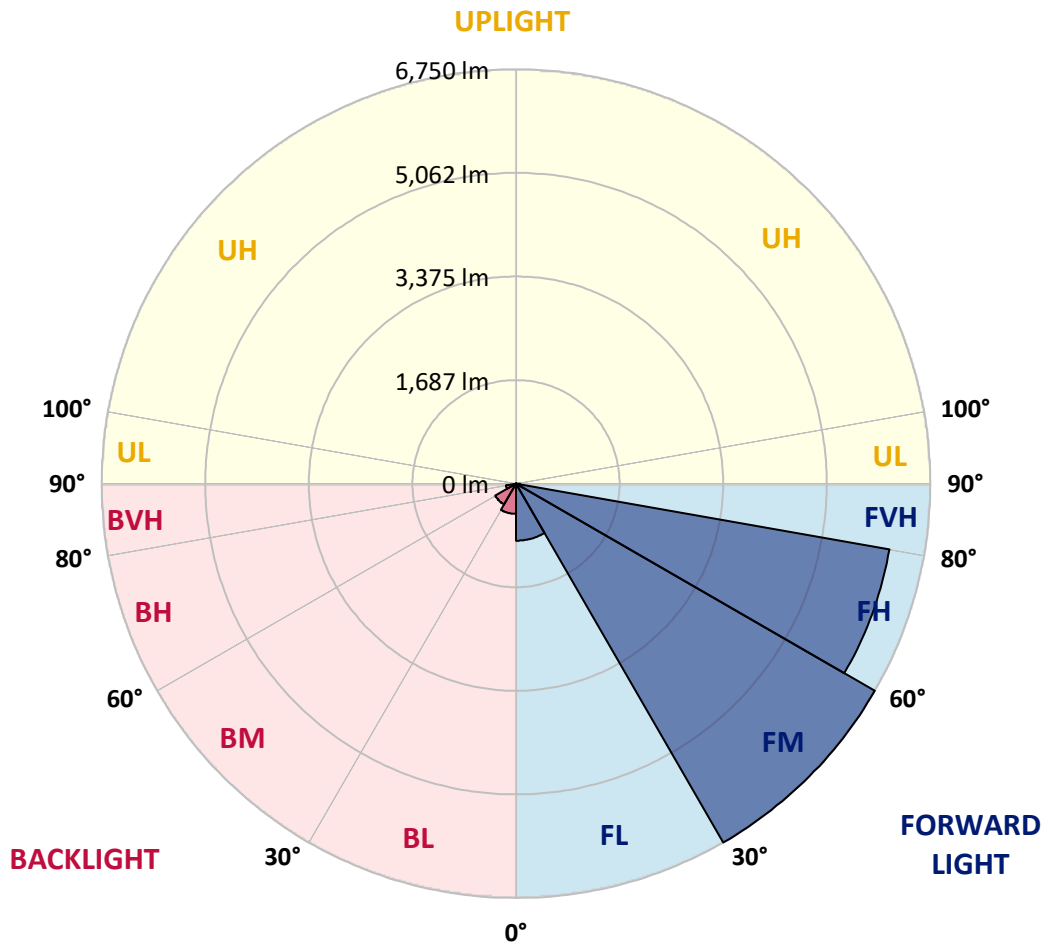


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	929.7	6.2			
FM (30°-60°)	6749.8	45.1			
FH (60°-80°)	6178.0	41.3			G3/7500
FVH (80°-90°)	65.3	0.4			G1/100
BL (0°-30°)	493.1	3.3	B1/500		
BM (30°-60°)	390.2	2.6	B1/1000		
BH (60°-80°)	166.8	1.1	B1/500		G1/500
BVH (80°-90°)	2.7	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°	2398.6	2398.6	2398.6	2398.6	2398.6	2398.6	2398.6	2398.6	2398.6	2398.6	2398.6
2.5°	2206.3	2185.9	2206.3	2235.7	2251.5	2265.1	2312.6	2353.4	2396.3	2425.8	2416.7
5°	2045.6	2084.1	2088.6	2097.7	2122.5	2204.0	2231.2	2301.3	2407.7	2416.7	2457.4
7.5°	1918.9	1907.6	1937.0	1995.8	2059.2	2106.7	2185.9	2308.1	2419.0	2457.4	2536.6
10°	1735.6	1758.2	1789.9	1848.7	1925.7	2043.3	2183.6	2319.4	2477.8	2491.4	2638.5
12.5°	1636.0	1613.4	1663.2	1724.3	1855.5	1964.1	2136.1	2299.0	2514.0	2588.7	2758.4
15°	1554.6	1565.9	1613.4	1654.1	1762.8	1900.8	2102.2	2348.8	2575.1	2627.2	2885.1
17.5°	1520.6	1513.8	1550.0	1590.8	1724.3	1880.4	2088.6	2351.1	2629.4	2697.3	2971.1
20°	1536.5	1550.0	1538.7	1577.2	1660.9	1819.3	2109.0	2394.1	2670.2	2762.9	3063.9
22.5°	1785.4	1767.3	1676.8	1604.4	1608.9	1794.4	2093.1	2421.2	2706.4	2781.0	3127.2
25°	2434.8	2337.5	2113.5	1835.2	1651.9	1726.5	2075.0	2412.2	2699.6	2792.3	3165.7
27.5°	3088.8	3005.1	2785.6	2353.4	1826.1	1699.4	2011.7	2419.0	2665.6	2751.6	3102.4
30°	3778.9	3824.2	3498.4	2984.7	2283.2	1848.7	1970.9	2382.8	2643.0	2715.4	3115.9
32.5°	4487.2	4469.1	4272.2	3715.6	2937.2	2179.1	2036.6	2419.0	2672.4	2742.6	3195.1
35°	5041.6	4978.2	4779.1	4276.8	3478.0	2676.9	2262.8	2591.0	2801.4	2885.1	3308.3
37.5°	5315.4	5342.6	5227.2	4790.4	4070.8	3138.6	2545.7	2591.0	2842.1	2939.4	3491.6
40°	5528.1	5609.6	5566.6	5426.3	4659.2	3659.0	2858.0	2751.6	3048.0	3231.3	3835.5
42.5°	5783.8	5745.4	5998.8	5869.8	5428.6	4315.2	3405.6	3134.0	3534.6	3711.1	4351.4
45°	5919.6	6066.7	6259.0	6424.2	6141.3	5134.4	4120.6	3810.6	4279.0	4503.1	5118.5
47.5°	6268.1	6326.9	6639.2	6847.4	6720.6	6071.2	5206.8	4799.5	5215.8	5568.8	5996.5
50°	6471.7	6392.5	6829.3	7146.0	7218.5	6847.4	6179.8	5863.0	6329.2	6779.5	6817.9
52.5°	6293.0	6519.2	6956.0	7523.9	7725.3	7539.8	7322.6	7184.5	7512.6	7929.0	7743.4
55°	5666.2	5820.0	6883.6	7938.0	8587.5	8501.5	8702.9	8612.4	8942.7	9384.0	8825.1
57.5°	5161.5	5353.9	6288.4	8153.0	9390.8	9644.2	9897.7	9841.1	10239.4	10748.5	9741.5
60°	4847.0	4957.9	5858.5	8098.7	9866.0	10825.4	11397.9	10999.7	11649.1	12038.3	10458.8
62.5°	4301.7	4371.8	5231.7	7379.1	10008.5	11660.4	12631.2	12090.4	12653.8	13129.0	10974.8
65°	3448.6	3638.6	4349.2	6302.0	9067.2	11814.3	13400.5	12764.7	13310.0	13622.3	11130.9
66°	3138.6	3276.6	3928.3	5731.8	8530.9	11558.6	13271.6	12905.0	13405.1	13690.2	10891.0
67.5°	2604.5	2724.5	3242.6	4919.4	7433.4	10995.1	13362.1	12809.9	13477.5	13303.2	10569.7
70°	1724.3	1801.2	2217.6	3326.4	5177.4	8994.8	12393.6	12067.7	11848.2	11194.3	8263.9
72.5°	805.6	916.5	1384.9	2016.2	3036.7	6293.0	10105.8	9669.1	8309.1	7263.7	5213.6
75°	364.3	414.1	760.3	1156.3	1362.2	3260.8	6519.2	5887.9	4136.5	3435.0	2283.2
77.5°	196.9	224.0	371.1	549.9	495.6	1142.7	3226.8	2683.7	1303.4	954.9	663.0
80°	151.6	178.8	310.0	314.5	183.3	296.4	1199.3	830.5	325.8	246.6	158.4
82.5°	79.2	113.1	244.4	203.7	92.8	119.9	371.1	230.8	101.8	81.5	67.9
85°	31.7	49.8	138.0	135.8	54.3	40.7	104.1	70.1	40.7	33.9	31.7
87.5°	2.3	2.3	74.7	52.0	33.9	11.3	15.8	15.8	20.4	18.1	22.6
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°	2398.6	2398.6	2398.6	2398.6	2398.6	2398.6	2398.6	2398.6	2398.6	2398.6	2398.6
2.5°	2457.4	2484.6	2489.1	2563.8	2579.6	2563.8	2604.5	2597.7	2615.8	2602.3	2577.4
5°	2514.0	2552.5	2627.2	2683.7	2683.7	2638.5	2602.3	2554.7	2484.6	2466.5	2452.9
7.5°	2611.3	2733.5	2801.4	2765.2	2692.8	2523.1	2287.7	2115.8	1970.9	1916.6	1891.7
10°	2783.3	2851.2	2930.4	2783.3	2482.3	2122.5	1726.5	1466.3	1262.7	1217.4	1183.5
12.5°	2894.2	3002.8	3048.0	2683.7	2093.1	1556.8	1126.9	832.7	690.2	581.5	563.4
15°	3039.0	3163.5	3070.7	2414.5	1649.6	1020.5	583.8	364.3	296.4	278.3	278.3
17.5°	3138.6	3274.3	2977.9	2079.6	1169.9	543.1	289.6	251.2	246.6	248.9	244.4
20°	3312.8	3394.3	2837.6	1690.3	699.2	278.3	233.1	224.0	219.5	226.3	221.8
22.5°	3378.4	3453.1	2609.1	1224.2	314.5	185.6	174.2	167.5	172.0	169.7	167.5
25°	3373.9	3412.4	2233.4	701.5	92.8	72.4	65.6	65.6	61.1	63.4	61.1
27.5°	3407.8	3312.8	1812.5	208.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30°	3425.9	3152.1	1289.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	3435.0	3068.4	830.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	3505.1	2901.0	355.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	3552.7	2686.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	3749.5	2618.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	4005.2	2491.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	4360.5	2303.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	4831.2	2192.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	5181.9	2018.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	5627.7	1914.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	6157.2	1918.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	6639.2	1887.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	6885.8	1613.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	6833.8	1305.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	6652.8	1025.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	6528.3	907.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	6150.4	726.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	4894.5	497.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	3113.7	305.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	1434.6	140.3	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	450.3	86.0	18.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	117.7	54.3	18.1	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	61.1	38.5	15.8	6.8	4.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	38.5	15.8	6.8	4.5	4.5	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	33.9	9.1	4.5	4.5	2.3	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)