

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: P481939

Luminaire Tested: **IFLD-S-SA3A-727-U-T2R-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481939
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3A-727-U-T2R-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens with House Side Shield
Light Source: (48) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

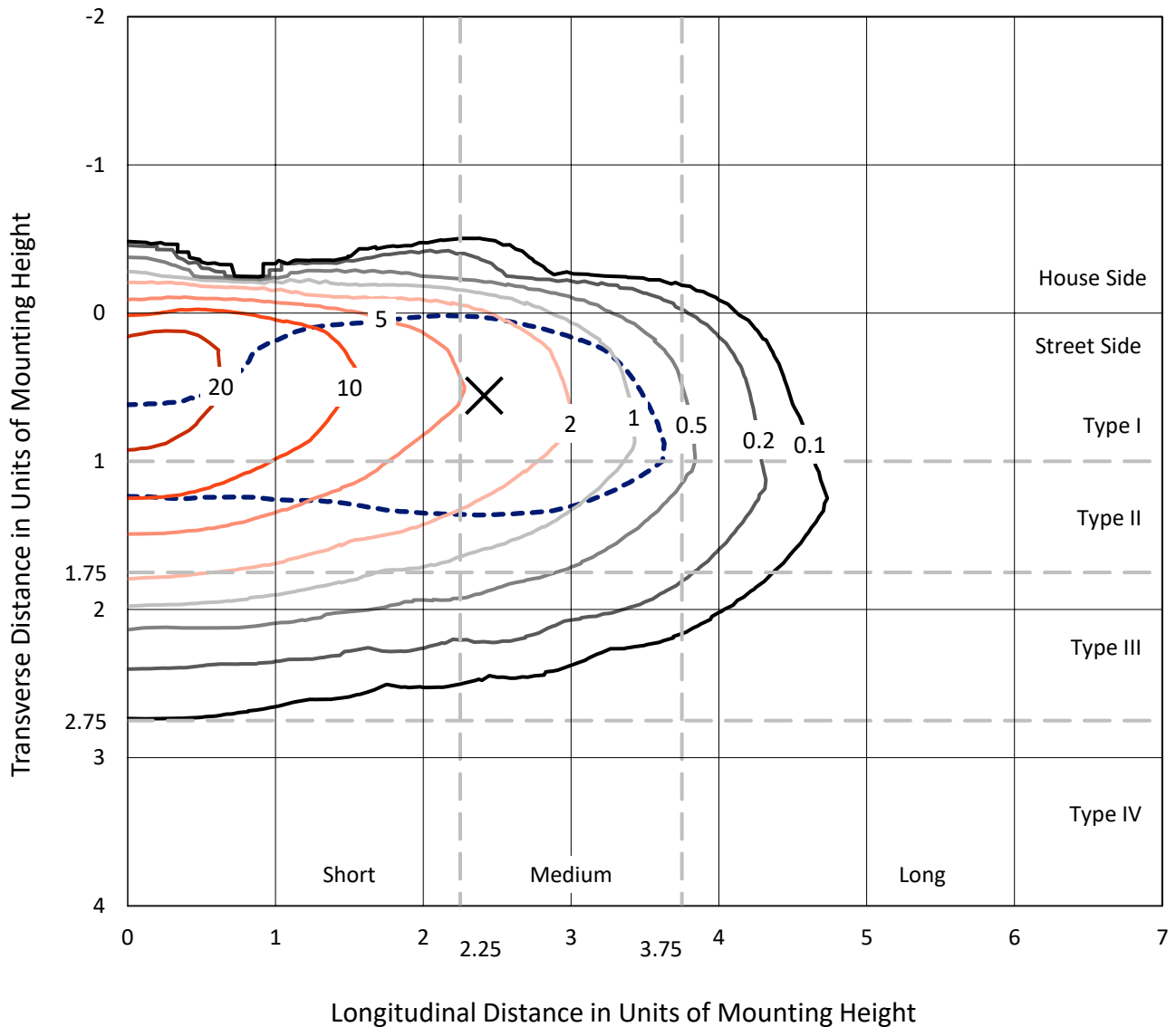
Lumens per Lamp: N/A
Luminaire Lumens: 9046.3 lumens
Efficiency: N/A
Efficacy: 95.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 94.8
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

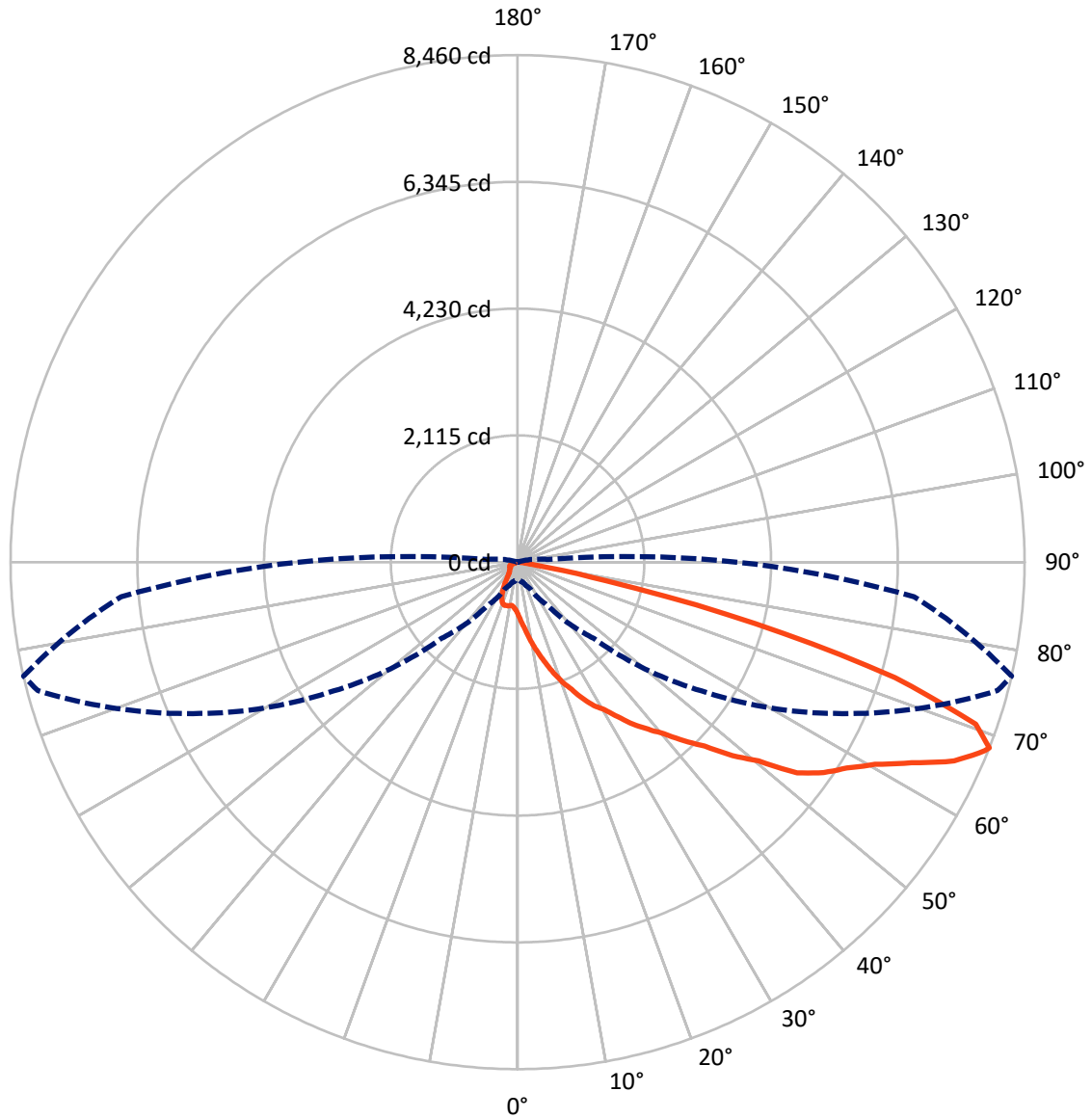
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 25.6 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 68-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	410.2	0.0	410.2
	% Fixture	4.5	0.0	4.5
Street Side	Lumens	8636.1	0.0	8636.1
	% Fixture	95.5	0.0	95.5
Total	Lumens	9046.3	0.0	9046.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.2	1.1
10°-20°	373.2	4.1
20°-30°	723.3	8.0
30°-40°	1261.0	13.9
40°-50°	1846.8	20.4
50°-60°	2169.7	24.0
60°-70°	1832.1	20.3
70°-80°	710.2	7.9
80°-90°	28.9	0.3
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°	9046.3	100.0
0°-180°	9046.3	100.0

Coefficient of Utilization



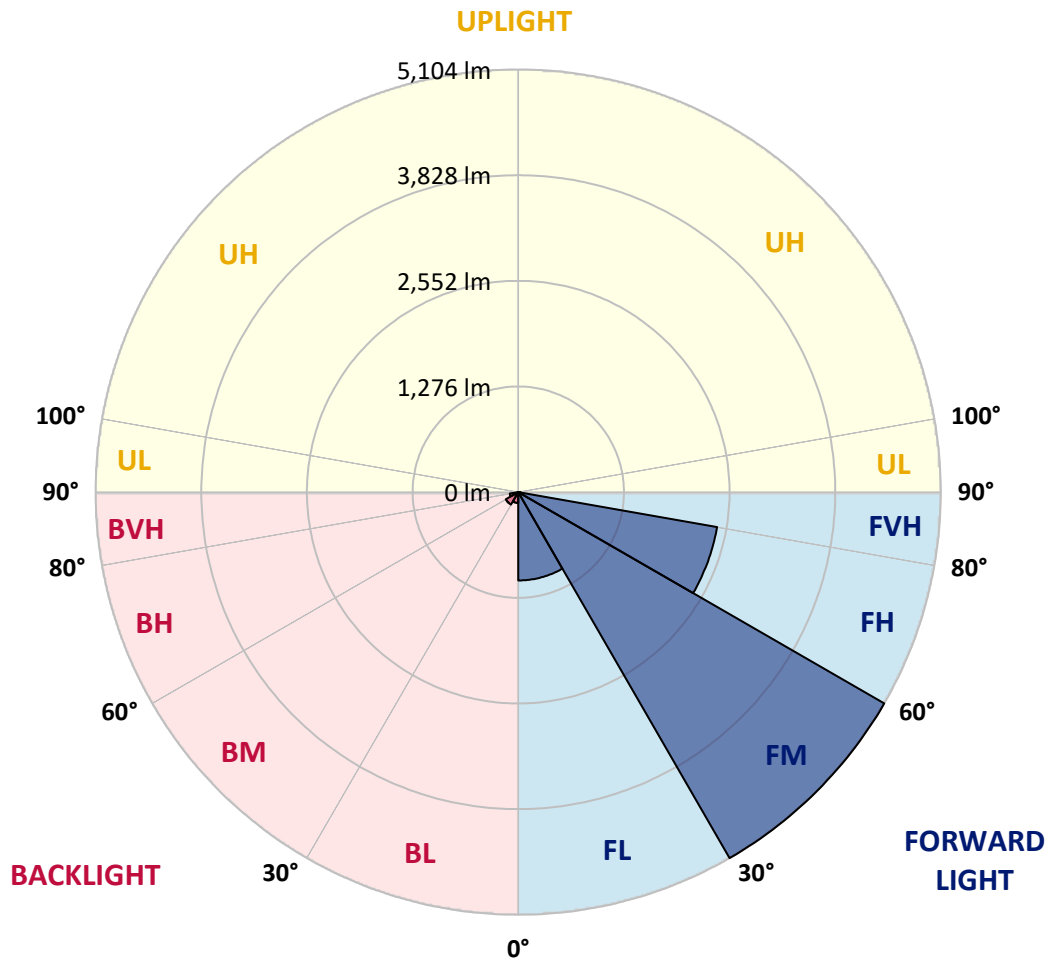
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1066.6	11.8			
FM (30°-60°)	5104.1	56.4			
FH (60°-80°)	2438.7	27.0			G2/5000
FVH (80°-90°)	26.6	0.3			G1/100
BL (0°-30°)	131.1	1.4	B1/500		
BM (30°-60°)	173.3	1.9	B0/220		
BH (60°-80°)	103.6	1.1	B0/110		G0/110
BVH (80°-90°)	2.2	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 II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	866.2	866.2	866.2	866.2	866.2	866.2	866.2	866.2	866.2	866.2	866.2
2.5°	1316.1	1291.2	1265.0	1257.5	1208.9	1154.1	1103.0	1053.1	969.6	970.9	913.6
5°	1696.3	1665.1	1643.9	1638.9	1562.9	1468.2	1390.9	1250.1	1111.7	1080.6	975.9
7.5°	2009.1	1999.1	1968.0	1941.8	1885.7	1769.8	1678.8	1476.9	1266.3	1231.4	1051.9
10°	2198.5	2213.5	2227.2	2193.5	2149.9	2066.4	1941.8	1723.7	1442.0	1398.4	1150.4
12.5°	2400.4	2375.5	2384.2	2411.6	2354.3	2335.6	2181.1	1977.9	1647.6	1564.1	1275.0
15°	2452.8	2462.7	2483.9	2563.7	2602.3	2548.7	2415.4	2183.6	1860.8	1744.9	1390.9
17.5°	2487.7	2482.7	2508.9	2628.5	2687.1	2738.2	2654.7	2412.9	2046.5	1943.0	1535.5
20°	2531.3	2503.9	2561.2	2637.2	2773.1	2880.3	2876.5	2643.5	2240.9	2131.2	1678.8
22.5°	2693.3	2672.1	2718.2	2725.7	2820.4	2970.0	3006.1	2831.7	2440.3	2305.7	1833.3
25°	2992.4	3031.1	2976.2	2928.9	2957.5	3056.0	3082.2	2998.7	2641.0	2517.6	1987.9
27.5°	3429.9	3424.9	3316.5	3255.4	3186.9	3174.4	3193.1	3154.5	2799.3	2710.8	2115.0
30°	3899.8	3858.6	3758.9	3611.9	3461.1	3367.6	3341.4	3301.5	2985.0	2856.6	2240.9
32.5°	4273.7	4296.1	4185.2	3993.2	3742.7	3616.8	3491.0	3447.3	3189.4	3075.9	2385.5
35°	4617.6	4587.7	4499.2	4337.2	4112.9	3909.7	3712.8	3619.3	3434.9	3322.7	2545.0
37.5°	4871.9	4909.3	4741.0	4586.5	4363.4	4195.1	4002.0	3797.6	3687.9	3538.3	2739.4
40°	5112.4	5053.9	4940.4	4798.4	4591.5	4463.1	4336.0	4016.9	3957.1	3763.9	2958.8
42.5°	5070.1	5073.8	5011.5	4896.8	4747.3	4673.7	4630.1	4283.6	4201.4	4078.0	3173.1
45°	4896.8	4911.8	4933.0	4876.9	4889.3	4815.8	4933.0	4590.2	4509.2	4378.3	3419.9
47.5°	4706.1	4731.1	4726.1	4828.3	4944.2	4969.1	5262.0	4930.5	4895.6	4823.3	3761.4
50°	4389.6	4399.5	4495.5	4681.2	4839.5	5100.0	5508.8	5301.9	5355.5	5213.4	4167.7
52.5°	3848.7	3884.8	4131.6	4397.0	4716.1	5166.0	5675.8	5854.0	5989.8	5844.0	4557.8
55°	3164.4	3214.3	3457.3	3954.6	4422.0	5066.3	5827.8	6145.6	6421.1	6200.5	4794.6
57.5°	2546.2	2551.2	2769.3	3282.8	4004.4	4870.6	5905.1	6287.7	6657.9	6480.9	5083.8
60°	1940.5	1920.6	2116.3	2561.2	3301.5	4389.6	5711.9	6360.0	6953.3	6851.1	5431.5
62.5°	1248.8	1217.7	1430.8	1864.5	2578.7	3588.2	5325.6	6361.3	7414.4	7375.8	6013.5
65°	618.2	597.0	780.2	1142.9	1784.7	2744.4	4774.7	6337.6	7977.7	8002.7	6580.6
67.5°	326.5	334.0	392.6	579.5	1029.5	1939.3	3944.6	6059.6	8265.6	8405.2	6717.7
68°	300.4	302.9	349.0	482.3	893.6	1798.4	3747.7	5978.6	8288.1	8460.1	6641.7
70°	244.3	248.0	264.2	302.9	483.6	1170.3	2891.5	5290.7	7950.3	8107.4	6012.3
72.5°	194.4	205.6	215.6	231.8	284.2	614.4	1798.4	4122.8	6568.1	6585.6	4680.0
75°	148.3	157.0	177.0	190.7	221.8	337.8	856.2	2513.8	4309.8	4097.9	2756.9
77.5°	114.7	122.1	130.9	149.6	185.7	228.1	261.7	1066.9	1830.9	1506.8	779.0
80°	68.5	73.5	102.2	117.2	162.0	154.5	103.4	296.6	371.4	292.9	142.1
82.5°	39.9	43.6	58.6	89.7	113.4	83.5	61.1	92.2	91.0	79.8	47.4
85°	1.2	2.5	32.4	53.6	39.9	22.4	37.4	38.6	32.4	29.9	21.2
87.5°	0.0	1.2	8.7	7.5	8.7	5.0	7.5	10.0	12.5	11.2	8.7
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°	866.2	866.2	866.2	866.2	866.2	866.2	866.2	866.2	866.2	866.2	866.2
2.5°	874.9	847.5	786.4	740.3	690.5	660.6	630.6	611.9	602.0	595.7	600.7
5°	897.4	840.0	741.6	654.3	597.0	558.4	519.7	499.8	481.1	471.1	477.3
7.5°	947.2	861.2	697.9	603.2	535.9	476.1	427.5	388.9	366.4	346.5	350.2
10°	1008.3	873.7	699.2	573.3	476.1	381.4	312.8	264.2	236.8	219.4	218.1
12.5°	1070.6	922.3	704.2	543.4	402.6	286.7	205.6	169.5	153.3	144.6	144.6
15°	1165.3	965.9	691.7	488.6	305.4	186.9	140.8	128.4	122.1	114.7	115.9
17.5°	1247.6	1035.7	685.5	406.3	209.4	134.6	117.2	103.4	97.2	89.7	89.7
20°	1358.5	1079.3	651.8	314.1	144.6	112.2	94.7	82.3	72.3	66.1	67.3
22.5°	1459.4	1113.0	592.0	214.4	110.9	88.5	69.8	57.3	48.6	41.1	42.4
25°	1569.1	1146.6	504.8	132.1	78.5	54.8	37.4	27.4	18.7	13.7	13.7
27.5°	1647.6	1156.6	391.3	78.5	47.4	24.9	8.7	1.2	0.0	0.0	0.0
30°	1727.4	1160.3	270.5	42.4	18.7	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	1818.4	1159.1	169.5	22.4	1.2	0.0	0.0	0.0	0.0	0.0	0.0
35°	1888.2	1137.9	81.0	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	1994.1	1106.7	24.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	2115.0	1050.7	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	2223.4	993.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	2346.8	922.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	2563.7	892.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	2846.6	868.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	3021.1	798.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	3112.1	726.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	3246.7	691.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	3446.1	694.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	3757.7	729.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	3929.7	694.2	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	3783.8	555.9	23.7	6.2	1.2	0.0	0.0	0.0	0.0	0.0	0.0
68°	3658.0	511.0	23.7	6.2	1.2	0.0	0.0	0.0	0.0	0.0	0.0
70°	3023.6	332.8	22.4	6.2	2.5	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	2202.3	184.5	18.7	5.0	2.5	0.0	0.0	0.0	0.0	0.0	0.0
75°	1281.2	92.2	13.7	5.0	2.5	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	334.0	46.1	11.2	6.2	3.7	1.2	0.0	0.0	0.0	0.0	0.0
80°	66.1	29.9	10.0	7.5	5.0	2.5	0.0	0.0	0.0	0.0	0.0
82.5°	31.2	21.2	10.0	7.5	6.2	3.7	1.2	0.0	0.0	0.0	0.0
85°	16.2	10.0	10.0	7.5	7.5	5.0	2.5	0.0	0.0	0.0	0.0
87.5°	7.5	3.7	3.7	3.7	3.7	2.5	1.2	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)