

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: P482003

Luminaire Tested: **IFLD-L-SA7A-730-U-T2R-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P482003
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7A-730-U-T2R-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens with House Side Shield
Light Source: (112) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

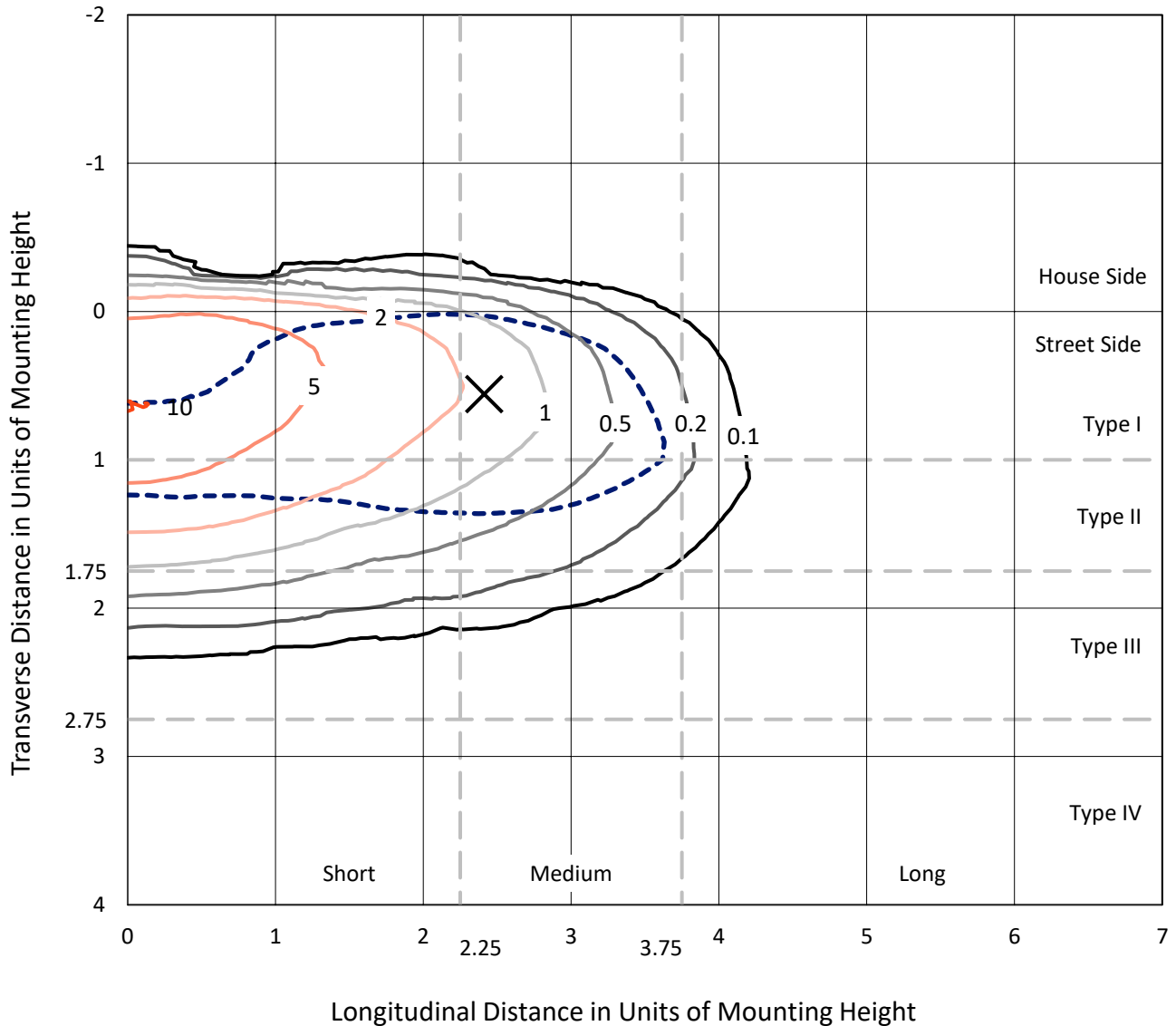
Lumens per Lamp: N/A
Luminaire Lumens: 22408.7 lumens
Efficiency: N/A
Efficacy: 103.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G3

Input Watts (W): 217.6
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

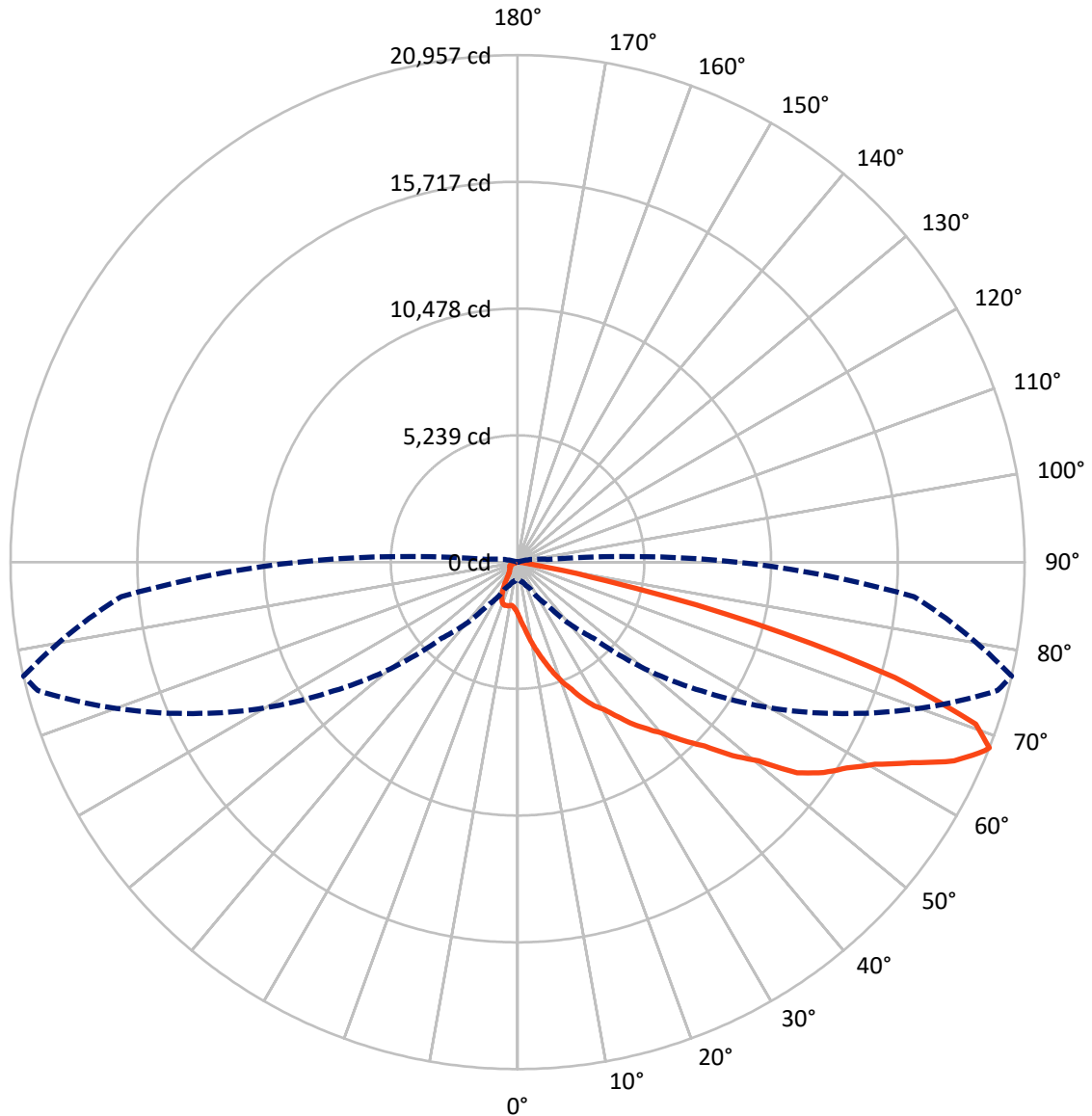
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.1 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	1016.2	0.0	1016.2
	% Fixture	4.5	0.0	4.5
Street Side	Lumens	21392.5	0.0	21392.5
	% Fixture	95.5	0.0	95.5
Total	Lumens	22408.7	0.0	22408.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	250.7	1.1
10°-20°	924.5	4.1
20°-30°	1791.7	8.0
30°-40°	3123.5	13.9
40°-50°	4574.7	20.4
50°-60°	5374.6	24.0
60°-70°	4538.3	20.3
70°-80°	1759.2	7.9
80°-90°	71.5	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°	22408.7	100.0
0°-180°	22408.7	100.0

Coefficient of Utilization



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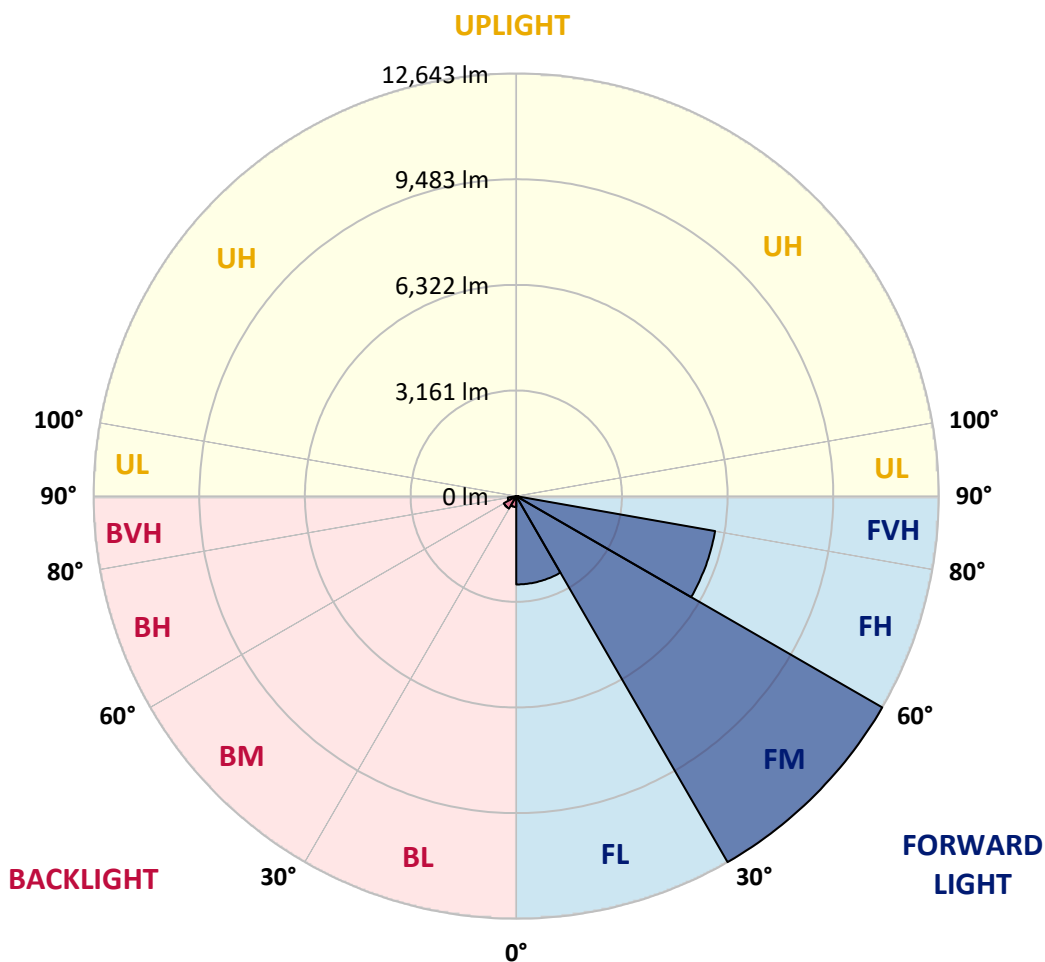
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2642.2	11.8			
FM (30°-60°)	12643.4	56.4			
FH (60°-80°)	6040.9	27.0			G3/7500
FVH (80°-90°)	66.0	0.3			G1/100
BL (0°-30°)	324.7	1.4	B1/500		
BM (30°-60°)	429.4	1.9	B1/1000		
BH (60°-80°)	256.6	1.1	B1/500		G1/500
BVH (80°-90°)	5.5	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 II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	2145.7	2145.7	2145.7	2145.7	2145.7	2145.7	2145.7	2145.7	2145.7	2145.7	2145.7
2.5°	3260.2	3198.4	3133.6	3115.1	2994.7	2858.8	2732.3	2608.8	2401.9	2405.0	2263.0
5°	4201.8	4124.6	4072.1	4059.8	3871.5	3636.8	3445.4	3096.6	2753.9	2676.7	2417.3
7.5°	4976.7	4952.0	4874.8	4810.0	4671.1	4384.0	4158.6	3658.4	3136.7	3050.2	2605.7
10°	5446.0	5483.0	5517.0	5433.6	5325.6	5118.7	4810.0	4269.7	3572.0	3463.9	2849.6
12.5°	5946.1	5884.4	5906.0	5973.9	5831.9	5785.6	5402.8	4899.5	4081.4	3874.5	3158.3
15°	6075.8	6100.5	6153.0	6350.6	6446.3	6313.5	5983.2	5408.9	4609.3	4322.2	3445.4
17.5°	6162.2	6149.9	6214.7	6511.1	6656.2	6782.8	6575.9	5977.0	5069.3	4813.1	3803.5
20°	6270.3	6202.4	6344.4	6532.7	6869.2	7134.7	7125.5	6548.1	5550.9	5279.3	4158.6
22.5°	6671.6	6619.1	6733.4	6751.9	6986.5	7357.0	7446.5	7014.3	6044.9	5711.5	4541.4
25°	7412.6	7508.3	7372.4	7255.1	7326.1	7570.0	7634.9	7428.0	6542.0	6236.3	4924.2
27.5°	8496.2	8483.9	8215.3	8064.0	7894.2	7863.3	7909.6	7813.9	6934.1	6714.9	5239.1
30°	9660.1	9558.2	9311.3	8947.0	8573.4	8341.9	8277.0	8178.2	7394.1	7076.1	5550.9
32.5°	10586.3	10641.9	10367.1	9891.7	9271.1	8959.3	8647.5	8539.4	7900.4	7619.4	5909.1
35°	11438.4	11364.3	11145.1	10743.8	10188.1	9684.8	9197.0	8965.5	8508.6	8230.7	6304.2
37.5°	12068.2	12160.8	11744.0	11361.2	10808.6	10391.8	9913.3	9407.0	9135.3	8764.8	6785.9
40°	12664.1	12519.0	12238.0	11886.1	11373.6	11055.6	10740.7	9950.3	9802.1	9323.6	7329.2
42.5°	12559.1	12568.4	12414.0	12130.0	11759.5	11577.3	11469.3	10611.0	10407.3	10101.6	7860.2
45°	12130.0	12167.0	12219.5	12080.6	12111.4	11929.3	12219.5	11370.5	11169.8	10845.6	8471.5
47.5°	11657.6	11719.3	11707.0	11960.2	12247.3	12309.0	13034.5	12213.3	12126.9	11947.8	9317.4
50°	10873.4	10898.1	11135.9	11595.9	11987.9	12633.2	13645.8	13133.3	13266.1	12914.1	10323.9
52.5°	9533.5	9623.1	10234.4	10892.0	11682.3	12796.8	14059.5	14501.0	14837.5	14476.3	11290.2
55°	7838.6	7962.1	8564.1	9796.0	10953.7	12549.8	14436.2	15223.4	15905.7	15359.3	11876.8
57.5°	6307.3	6319.7	6860.0	8131.9	9919.5	12065.1	14627.6	15575.4	16492.3	16053.9	12593.1
60°	4806.9	4757.5	5242.2	6344.4	8178.2	10873.4	14149.0	15754.4	17224.0	16970.8	13454.4
62.5°	3093.5	3016.3	3544.2	4618.6	6387.6	8888.3	13192.0	15757.5	18366.3	18270.6	14896.2
65°	1531.3	1478.8	1932.6	2831.0	4421.0	6798.2	11827.4	15698.9	19761.7	19823.5	16300.9
67.5°	808.9	827.4	972.5	1435.6	2550.1	4803.8	9771.3	15010.4	20474.9	20820.7	16640.5
68°	744.0	750.2	864.4	1194.8	2213.6	4455.0	9283.5	14809.7	20530.5	20956.5	16452.2
70°	605.1	614.4	654.5	750.2	1197.9	2899.0	7162.5	13105.5	19693.8	20082.8	14893.1
72.5°	481.6	509.4	534.1	574.2	703.9	1522.0	4455.0	10212.8	16270.0	16313.2	11592.8
75°	367.4	389.0	438.4	472.4	549.5	836.7	2121.0	6227.1	10675.8	10151.0	6829.1
77.5°	284.0	302.6	324.2	370.5	460.0	565.0	648.3	2642.7	4535.2	3732.5	1929.6
80°	169.8	182.2	253.2	290.2	401.3	382.8	256.2	734.8	920.0	725.5	352.0
82.5°	98.8	108.1	145.1	222.3	280.9	206.8	151.3	228.5	225.4	197.6	117.3
85°	3.1	6.2	80.3	132.8	98.8	55.6	92.6	95.7	80.3	74.1	52.5
87.5°	0.0	3.1	21.6	18.5	21.6	12.3	18.5	24.7	30.9	27.8	21.6
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°	2145.7	2145.7	2145.7	2145.7	2145.7	2145.7	2145.7	2145.7	2145.7	2145.7	2145.7
2.5°	2167.3	2099.4	1948.1	1833.8	1710.4	1636.3	1562.2	1515.9	1491.2	1475.7	1488.1
5°	2222.8	2080.8	1836.9	1620.8	1478.8	1383.1	1287.4	1238.0	1191.7	1167.0	1182.4
7.5°	2346.3	2133.3	1728.9	1494.2	1327.5	1179.3	1058.9	963.2	907.7	858.3	867.5
10°	2497.6	2164.2	1732.0	1420.2	1179.3	944.7	774.9	654.5	586.6	543.4	540.3
12.5°	2652.0	2284.6	1744.3	1346.1	997.2	710.1	509.4	419.9	379.7	358.1	358.1
15°	2886.6	2392.6	1713.4	1210.2	756.4	463.1	348.9	318.0	302.6	284.0	287.1
17.5°	3090.4	2565.5	1698.0	1006.5	518.7	333.4	290.2	256.2	240.8	222.3	222.3
20°	3365.1	2673.6	1614.7	778.0	358.1	277.9	234.6	203.8	179.1	163.6	166.7
22.5°	3615.2	2756.9	1466.5	531.0	274.8	219.2	172.9	142.0	120.4	101.9	105.0
25°	3886.9	2840.3	1250.4	327.3	194.5	135.8	92.6	67.9	46.3	34.0	34.0
27.5°	4081.4	2865.0	969.4	194.5	117.3	61.7	21.6	3.1	0.0	0.0	0.0
30°	4279.0	2874.3	669.9	105.0	46.3	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	4504.4	2871.2	419.9	55.6	3.1	0.0	0.0	0.0	0.0	0.0	0.0
35°	4677.2	2818.7	200.7	6.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	4939.7	2741.5	61.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	5239.1	2602.6	12.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	5507.7	2460.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	5813.4	2284.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	6350.6	2210.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	7051.4	2151.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	7483.6	1979.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	7709.0	1799.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	8042.4	1713.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	8536.4	1719.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	9308.2	1806.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	9734.2	1719.6	12.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	9373.0	1376.9	58.7	15.4	3.1	0.0	0.0	0.0	0.0	0.0	0.0
68°	9061.2	1265.8	58.7	15.4	3.1	0.0	0.0	0.0	0.0	0.0	0.0
70°	7489.8	824.3	55.6	15.4	6.2	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	5455.2	456.9	46.3	12.3	6.2	0.0	0.0	0.0	0.0	0.0	0.0
75°	3173.7	228.5	34.0	12.3	6.2	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	827.4	114.2	27.8	15.4	9.3	3.1	0.0	0.0	0.0	0.0	0.0
80°	163.6	74.1	24.7	18.5	12.3	6.2	0.0	0.0	0.0	0.0	0.0
82.5°	77.2	52.5	24.7	18.5	15.4	9.3	3.1	0.0	0.0	0.0	0.0
85°	40.1	24.7	24.7	18.5	18.5	12.3	6.2	0.0	0.0	0.0	0.0
87.5°	18.5	9.3	9.3	9.3	9.3	6.2	3.1	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)