

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: P481736

Luminaire Tested: **IFLD-L-SA8B-750-U-T2-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P481736
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8B-750-U-T2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens with House Side Shield
Light Source: (128) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

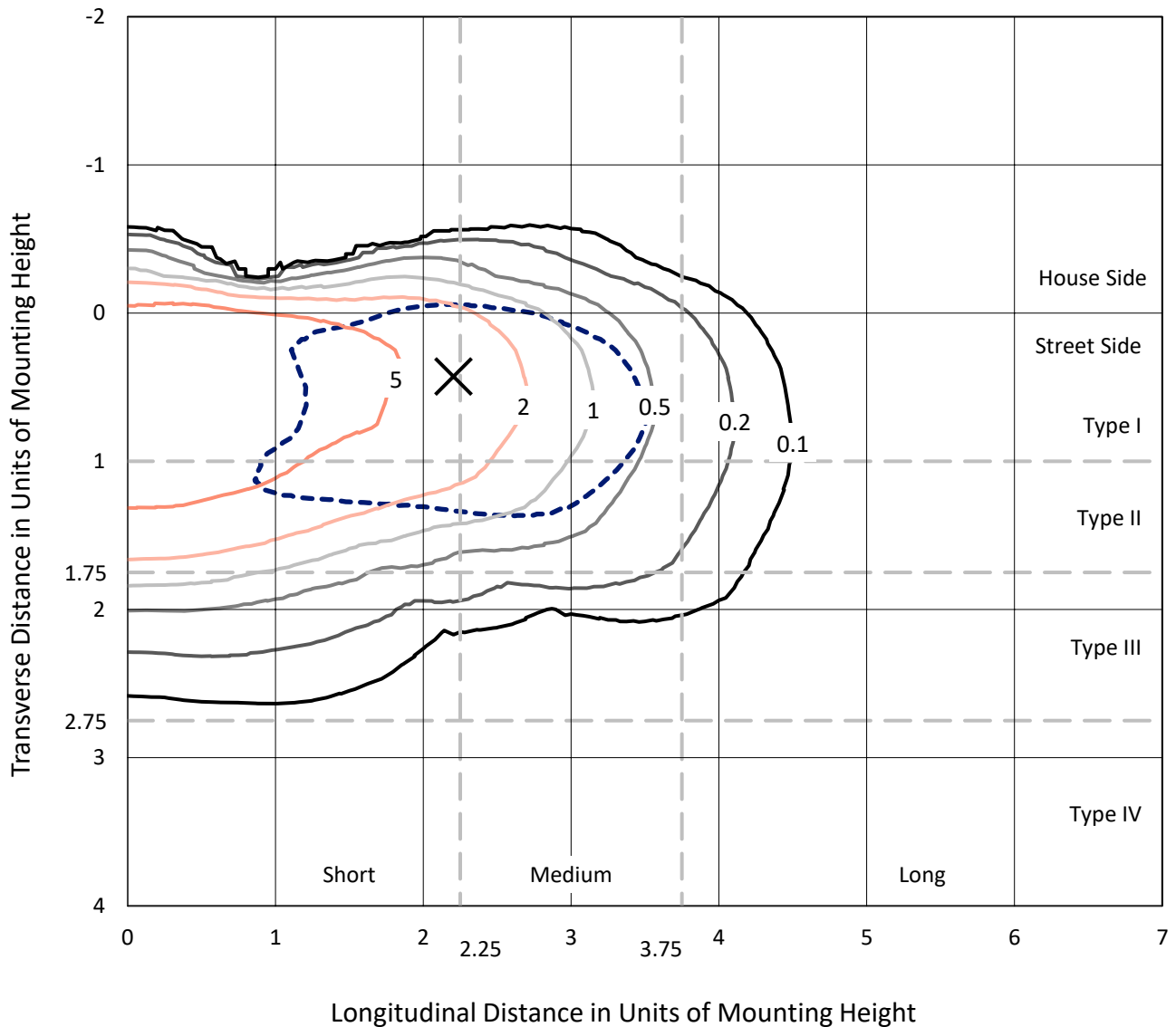
Lumens per Lamp: N/A
Luminaire Lumens: 29979.8 lumens
Efficiency: N/A
Efficacy: 93.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 320
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

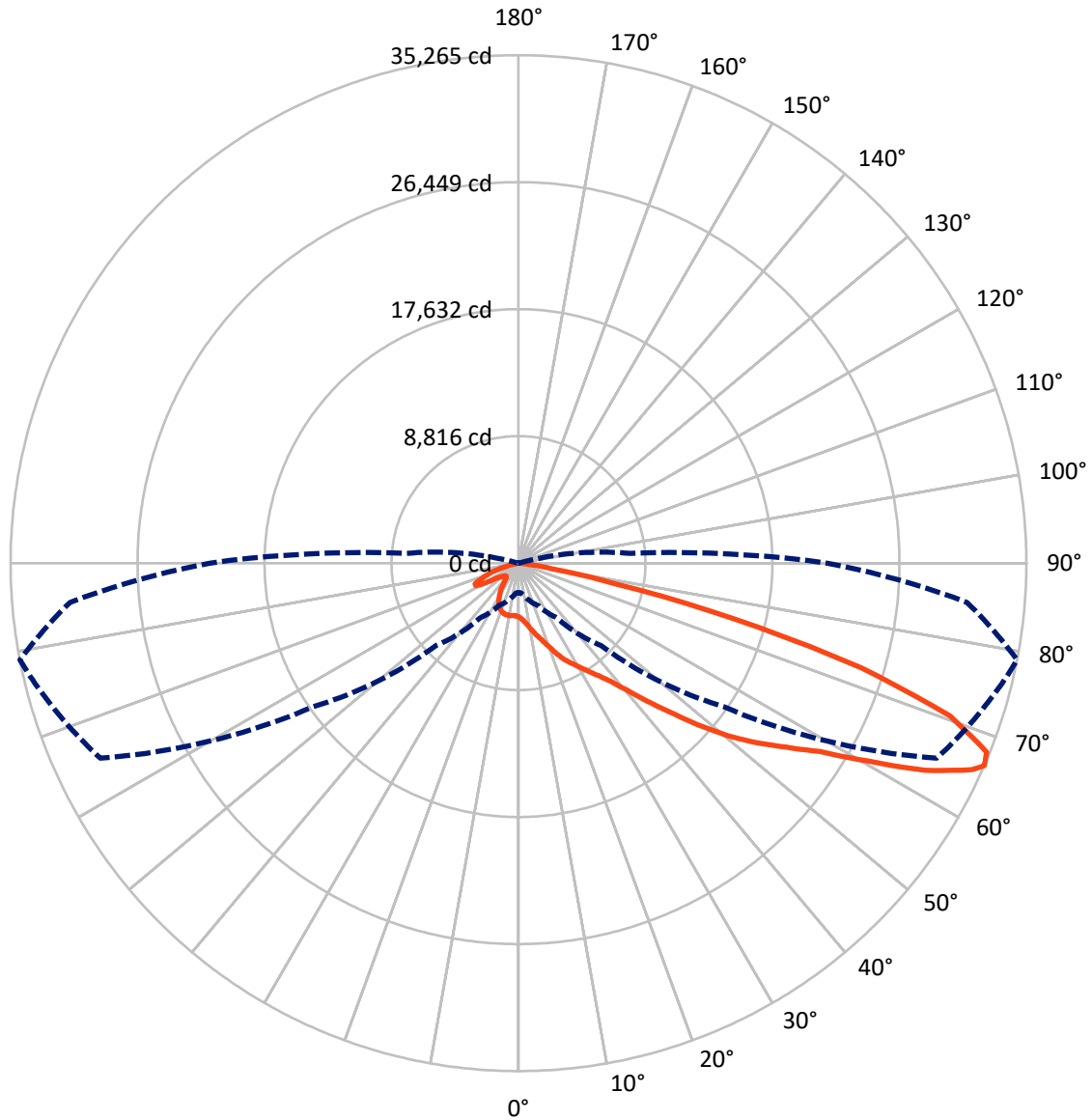
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2251.1	0.0	2251.1
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	27728.8	0.0	27728.8
	% Fixture	92.5	0.0	92.5
Total	Lumens	29979.8	0.0	29979.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	352.7	1.2
10°-20°	970.8	3.2
20°-30°	1612.7	5.4
30°-40°	2770.1	9.2
40°-50°	5018.3	16.7
50°-60°	7932.5	26.5
60°-70°	8071.9	26.9
70°-80°	3078.2	10.3
80°-90°	172.6	0.6
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°	29979.8	100.0
0°-180°	29979.8	100.0



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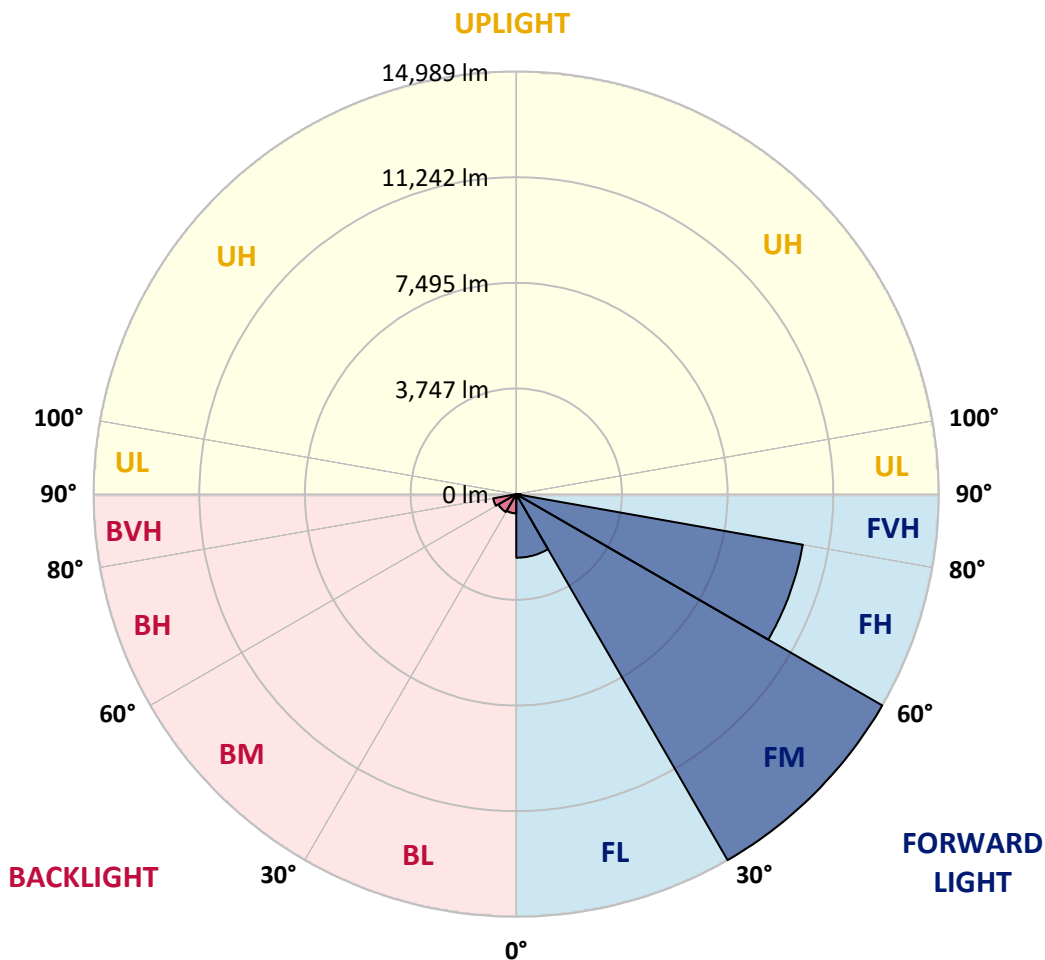
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2255.5	7.5			
FM (30°-60°)	14989.2	50.0			
FH (60°-80°)	10320.3	34.4			G4/12000
FVH (80°-90°)	163.8	0.5			G2/225
BL (0°-30°)	680.8	2.3	B2/1000		
BM (30°-60°)	731.6	2.4	B1/1000		
BH (60°-80°)	829.8	2.8	B2/1000		G2/1000
BVH (80°-90°)	8.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	3729.9	3729.9	3729.9	3729.9	3729.9	3729.9	3729.9	3729.9	3729.9	3729.9	3729.9
2.5°	4224.4	4219.8	4201.3	4168.9	4127.3	4113.5	4053.4	3970.2	3924.0	3873.1	3850.0
5°	4515.6	4492.5	4547.9	4524.8	4534.1	4423.1	4349.2	4289.1	4113.5	4044.1	3933.2
7.5°	4580.3	4603.4	4598.8	4635.7	4672.7	4714.3	4663.5	4575.7	4400.0	4298.3	4178.2
10°	4580.3	4571.0	4608.0	4658.8	4765.2	4857.6	4996.2	4880.7	4746.7	4626.5	4409.3
12.5°	4497.1	4483.2	4520.2	4626.5	4816.0	5005.5	5158.0	5268.9	5079.4	4982.4	4700.4
15°	4242.9	4229.0	4381.5	4571.0	4820.6	5130.3	5449.2	5629.4	5500.0	5347.5	5033.2
17.5°	3928.6	3947.1	4108.8	4423.1	4820.6	5190.4	5597.1	5989.9	5971.5	5777.3	5449.2
20°	3822.3	3836.2	3997.9	4224.4	4677.3	5232.0	5828.2	6382.8	6493.7	6262.6	5832.8
22.5°	4025.7	4011.8	4025.7	4164.3	4580.3	5195.0	5980.7	6831.1	7029.9	6849.6	6336.6
25°	4718.9	4709.7	4594.1	4381.5	4524.8	5111.8	6059.3	7126.9	7584.5	7418.1	6743.3
27.5°	5735.7	5698.8	5518.5	5074.8	4783.6	5162.6	6188.7	7413.5	8069.8	7880.3	7108.4
30°	6826.5	6738.7	6503.0	5948.4	5453.8	5352.1	6262.6	7626.1	8610.6	8370.2	7427.4
32.5°	7579.9	7695.4	7621.5	7057.6	6299.6	5791.2	6382.8	7894.2	9109.7	8952.6	7972.7
35°	8744.6	8878.6	8569.0	8069.8	7307.2	6489.1	6637.0	8111.4	9876.9	9613.5	8481.1
37.5°	10214.3	10316.0	10094.2	9146.7	8342.5	7348.8	7159.3	8564.3	10537.9	10413.1	9132.8
40°	10953.8	11443.8	11129.5	10274.4	9410.1	8550.5	8023.6	9095.8	11688.7	11587.0	10034.1
42.5°	11975.3	12220.2	12058.5	11425.3	10524.0	9835.3	9091.2	10131.1	13084.5	13084.5	11254.3
45°	13056.8	13066.0	13056.8	12539.1	11739.6	11383.7	10533.3	11429.9	14586.6	14753.0	12714.8
47.5°	13944.2	14221.5	14198.4	13888.7	13269.4	13135.4	11975.3	12908.9	16472.4	16763.5	14138.3
50°	14401.8	14711.4	14803.9	14965.6	14937.9	15219.8	13551.3	14623.6	18099.3	18815.7	15968.6
52.5°	14277.0	14300.1	14868.6	15506.4	16523.2	17313.5	15450.9	16569.4	20003.5	20710.6	17382.9
55°	13255.5	13167.7	14337.1	15067.3	17170.3	18593.8	18080.8	18995.9	21487.1	22564.0	18843.4
57.5°	11013.9	11037.0	12118.6	13602.2	16689.6	19102.2	20890.9	22166.5	23566.9	24653.1	20895.5
60°	7603.0	7575.3	8786.2	10500.9	13865.6	18154.7	22508.5	26275.4	26349.3	27888.4	24579.1
62.5°	4275.2	4284.5	5204.2	6669.4	9701.3	14836.2	22430.0	30638.4	30324.1	31673.7	28766.5
65°	2421.9	2481.9	3115.1	3951.7	5809.7	9960.1	19291.7	32376.2	33388.4	34590.1	31308.6
66°	2047.5	2089.1	2629.8	3263.0	4635.7	8079.0	17364.4	32038.8	34349.8	35264.9	31257.7
67.5°	1585.3	1640.8	2093.7	2588.2	3401.7	5592.5	13976.5	30361.1	34525.4	35061.5	30375.0
70°	1086.1	1123.1	1469.8	1964.3	2324.8	2860.9	8356.3	25101.4	31327.1	31780.0	26400.1
72.5°	762.6	781.1	1030.7	1488.2	1788.7	1636.1	4145.8	17858.9	23973.7	24856.4	20535.0
75°	550.0	568.5	707.1	1067.7	1395.8	1072.3	1899.6	11406.8	14702.2	15395.5	12368.1
77.5°	397.5	420.6	480.7	688.7	1012.2	753.4	933.6	5957.6	6932.8	6812.6	5319.8
80°	240.3	263.4	355.9	443.7	739.5	531.5	513.0	2486.6	2458.8	2334.0	1673.1
82.5°	110.9	129.4	189.5	300.4	517.6	369.7	245.0	887.4	776.5	711.8	471.4
85°	32.4	41.6	110.9	226.5	263.4	180.3	147.9	305.0	318.9	272.7	157.1
87.5°	0.0	4.6	50.8	55.5	78.6	60.1	55.5	78.6	147.9	120.2	50.8
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°	3729.9	3729.9	3729.9	3729.9	3729.9	3729.9	3729.9	3729.9	3729.9	3729.9	3729.9
2.5°	3766.8	3734.5	3655.9	3535.7	3429.4	3374.0	3295.4	3226.1	3189.1	3184.5	3179.8
5°	3859.3	3771.4	3582.0	3364.7	3203.0	3027.3	2907.2	2819.3	2736.1	2657.6	2703.8
7.5°	3984.1	3845.4	3535.7	3253.8	2902.5	2676.1	2463.5	2338.7	2264.7	2195.4	2186.1
10°	4178.2	4002.5	3503.4	2995.0	2592.9	2260.1	2042.9	1862.6	1760.9	1640.8	1687.0
12.5°	4441.6	4127.3	3383.2	2759.3	2241.6	1890.3	1580.7	1289.5	1127.7	1002.9	1007.6
15°	4705.1	4293.7	3272.3	2472.7	1922.7	1460.5	1007.6	808.8	762.6	734.9	744.1
17.5°	4963.9	4427.8	3101.3	2181.5	1557.6	929.0	734.9	693.3	670.2	642.4	642.4
20°	5278.2	4515.6	2888.7	1913.5	1072.3	688.7	628.6	600.8	563.9	526.9	531.5
22.5°	5583.2	4589.5	2643.7	1571.4	721.0	596.2	526.9	489.9	457.6	420.6	420.6
25°	5888.3	4612.6	2324.8	1127.7	582.4	476.1	411.3	360.5	328.2	295.8	300.4
27.5°	6096.3	4469.4	2024.4	721.0	466.8	360.5	286.6	245.0	217.2	184.9	184.9
30°	6216.4	4205.9	1700.8	508.4	351.3	245.0	171.0	129.4	101.7	78.6	73.9
32.5°	6336.6	3993.3	1335.7	388.2	231.1	129.4	64.7	23.1	0.0	0.0	0.0
35°	6576.9	3753.0	896.6	217.2	78.6	4.6	0.0	0.0	0.0	0.0	0.0
37.5°	6729.4	3420.2	411.3	32.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	7113.1	3253.8	101.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	7737.0	3138.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	8421.1	3092.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	9331.6	3216.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	10292.9	3554.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	11346.7	3873.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	12266.5	4256.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	13958.1	5162.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	16994.6	6942.1	4.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	20414.8	8263.9	50.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	21667.3	8231.6	87.8	4.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	21445.5	7778.6	87.8	4.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	20294.7	6909.7	78.6	9.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	17429.1	5708.0	78.6	13.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	13287.9	4446.2	73.9	18.5	4.6	0.0	0.0	0.0	0.0	0.0	0.0
75°	8019.0	2366.4	60.1	23.1	9.2	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	3193.7	831.9	46.2	18.5	9.2	0.0	0.0	0.0	0.0	0.0	0.0
80°	864.3	249.6	27.7	18.5	13.9	4.6	0.0	0.0	0.0	0.0	0.0
82.5°	226.5	92.4	23.1	18.5	9.2	4.6	0.0	0.0	0.0	0.0	0.0
85°	87.8	37.0	18.5	13.9	13.9	9.2	4.6	0.0	0.0	0.0	0.0
87.5°	27.7	13.9	13.9	9.2	9.2	4.6	4.6	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)