

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: P481606

Luminaire Tested: **IFLD-S-SA6D-730-U-T2-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P481606  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA6D-730-U-T2-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens with House Side Shield  
Light Source: (96) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

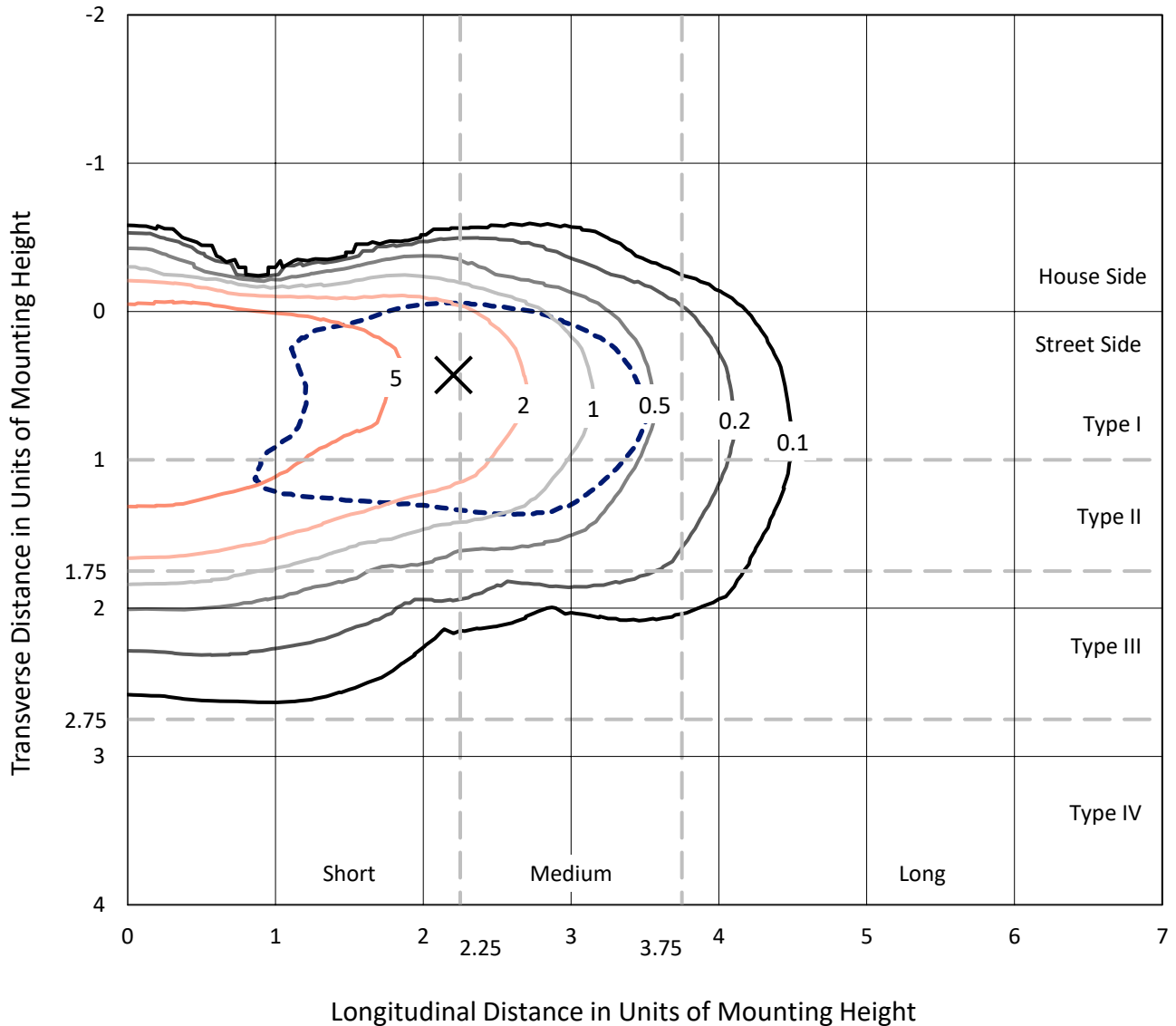
Lumens per Lamp: N/A  
Luminaire Lumens: 29982.4 lumens  
Efficiency: N/A  
Efficacy: 81.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G4

Input Watts (W): 368.2  
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

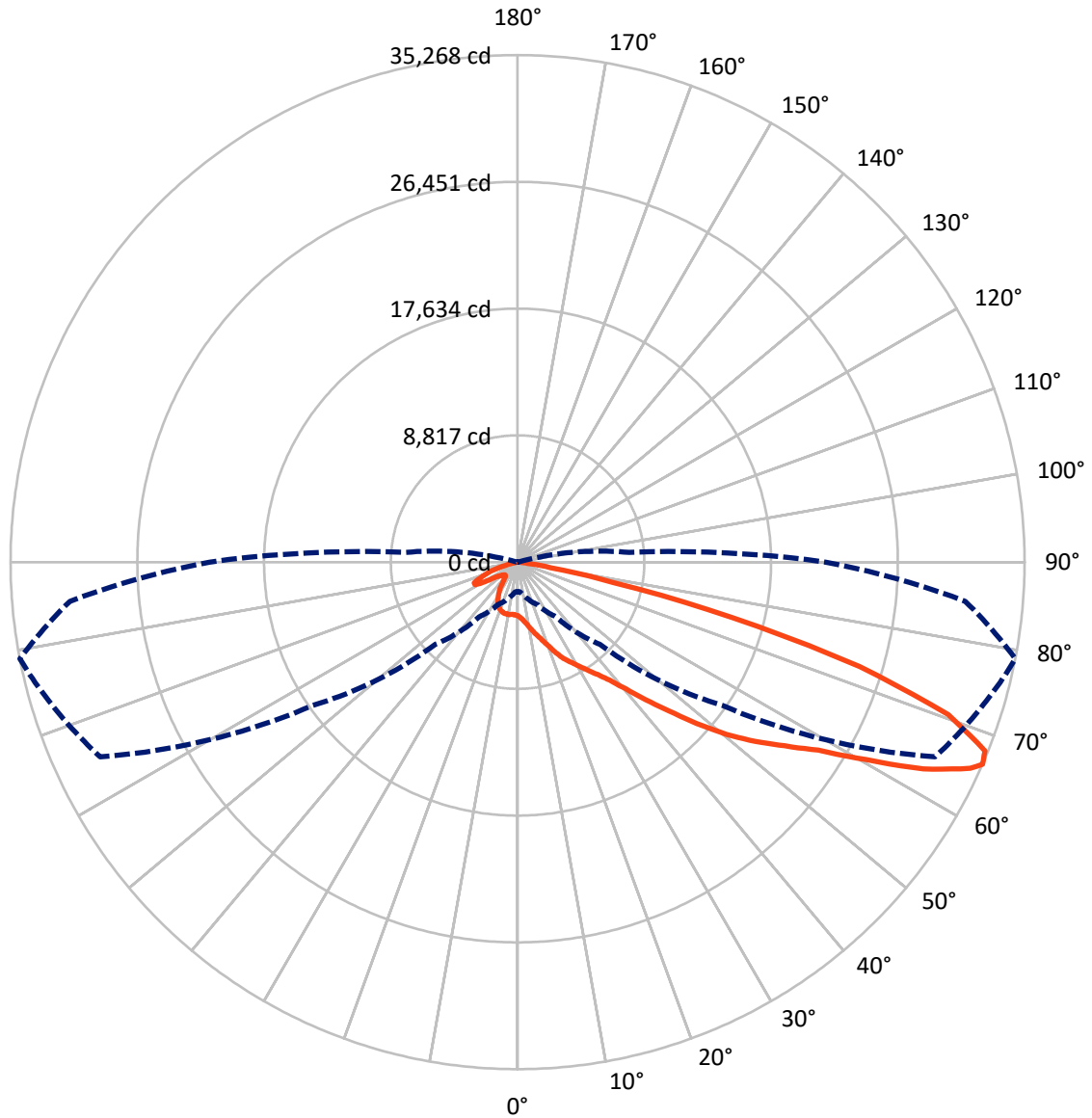
× Max cd  
 - - - 1/2 Max cd



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
<b>House Side</b>	Lumens	2251.3	0.0	2251.3
	% Fixture	7.5	0.0	7.5
<b>Street Side</b>	Lumens	27731.2	0.0	27731.2
	% Fixture	92.5	0.0	92.5
<b>Total</b>	Lumens	29982.4	0.0	29982.4
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	352.8	1.2
10°-20°	970.9	3.2
20°-30°	1612.9	5.4
30°-40°	2770.3	9.2
40°-50°	5018.7	16.7
50°-60°	7933.2	26.5
60°-70°	8072.6	26.9
70°-80°	3078.5	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°	29982.4	100.0
0°-180°	29982.4	100.0



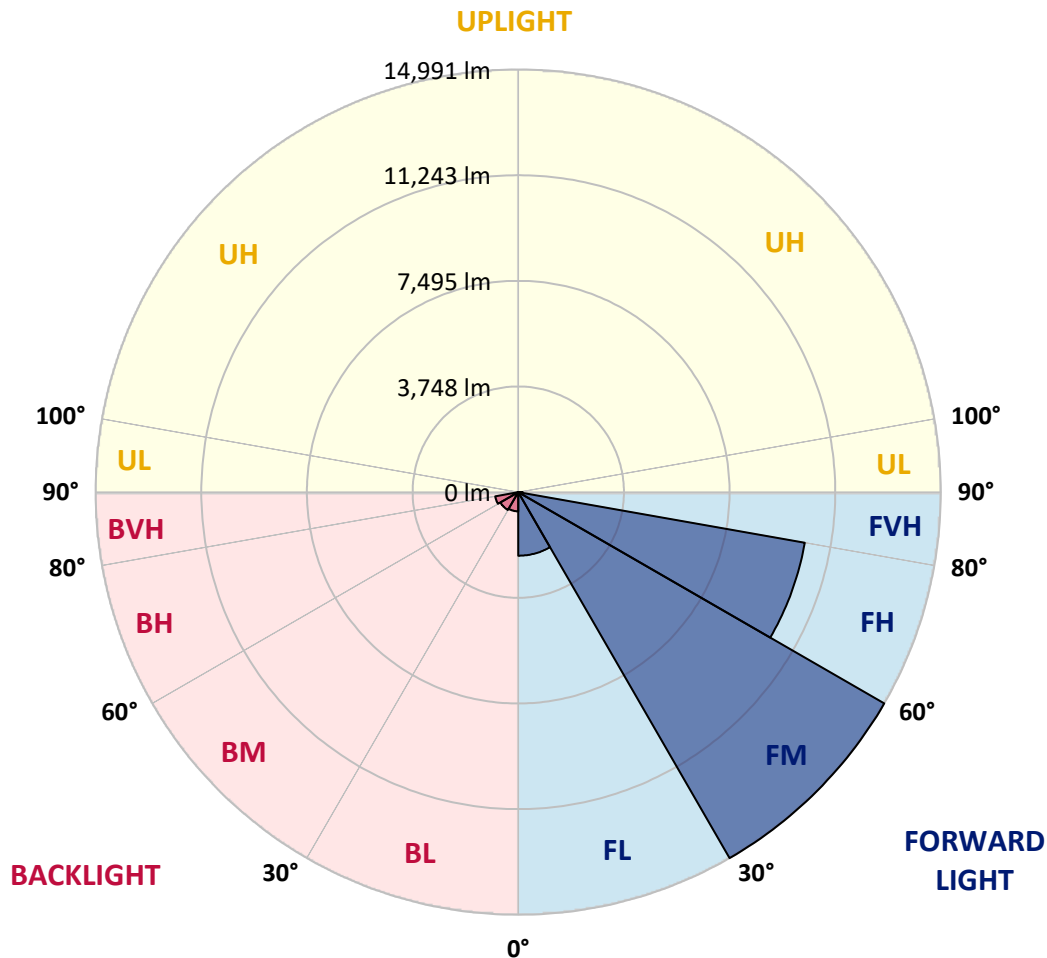
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2255.7	7.5			
FM (30°-60°)	14990.5	50.0			
FH (60°-80°)	10321.2	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°)	731.7	2.4	B1/1000		
BH (60°-80°)	829.9	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°	3730.2	3730.2	3730.2	3730.2	3730.2	3730.2	3730.2	3730.2	3730.2	3730.2	3730.2
2.5°	4224.8	4220.1	4201.6	4169.3	4127.7	4113.8	4053.7	3970.5	3924.3	3873.5	3850.4
5°	4516.0	4492.9	4548.3	4525.2	4534.5	4423.5	4349.6	4289.5	4113.8	4044.5	3933.6
7.5°	4580.7	4603.8	4599.2	4636.1	4673.1	4714.7	4663.9	4576.1	4400.4	4298.7	4178.5
10°	4580.7	4571.4	4608.4	4659.3	4765.6	4858.0	4996.7	4881.1	4747.1	4626.9	4409.7
12.5°	4497.5	4483.6	4520.6	4626.9	4816.4	5005.9	5158.5	5269.4	5079.9	4982.8	4700.9
15°	4243.3	4229.4	4381.9	4571.4	4821.0	5130.7	5449.7	5629.9	5500.5	5348.0	5033.7
17.5°	3928.9	3947.4	4109.2	4423.5	4821.0	5190.8	5597.6	5990.5	5972.0	5777.8	5449.7
20°	3822.6	3836.5	3998.3	4224.8	4677.7	5232.4	5828.7	6383.4	6494.3	6263.2	5833.3
22.5°	4026.0	4012.1	4026.0	4164.7	4580.7	5195.4	5981.2	6831.7	7030.5	6850.2	6337.1
25°	4719.3	4710.1	4594.5	4381.9	4525.2	5112.2	6059.8	7127.6	7585.2	7418.8	6743.9
27.5°	5736.2	5699.3	5519.0	5075.3	4784.1	5163.1	6189.2	7414.1	8070.5	7881.0	7109.1
30°	6827.1	6739.3	6503.5	5948.9	5454.3	5352.6	6263.2	7626.8	8611.3	8370.9	7428.0
32.5°	7580.5	7696.1	7622.1	7058.2	6300.2	5791.7	6383.4	7894.8	9110.5	8953.4	7973.4
35°	8745.3	8879.4	8569.7	8070.5	7307.8	6489.7	6637.6	8112.1	9877.8	9614.3	8481.9
37.5°	10215.2	10316.9	10095.1	9147.5	8343.2	7349.4	7159.9	8565.1	10538.8	10414.0	9133.6
40°	10954.8	11444.8	11130.4	10275.3	9411.0	8551.2	8024.3	9096.6	11689.7	11588.0	10035.0
42.5°	11976.3	12221.3	12059.5	11426.3	10524.9	9836.2	9092.0	10132.0	13085.7	13085.7	11255.2
45°	13057.9	13067.2	13057.9	12540.2	11740.6	11384.7	10534.2	11430.9	14587.9	14754.3	12715.9
47.5°	13945.4	14222.7	14199.6	13889.9	13270.6	13136.5	11976.3	12910.0	16473.8	16765.0	14139.5
50°	14403.0	14712.7	14805.2	14966.9	14939.2	15221.2	13552.5	14624.9	18100.8	18817.3	15970.0
52.5°	14278.2	14301.3	14869.9	15507.7	16524.6	17315.0	15452.3	16570.9	20005.2	20712.4	17384.4
55°	13256.7	13168.9	14338.3	15068.6	17171.8	18595.4	18082.3	18997.6	21489.0	22566.0	18845.0
57.5°	11014.9	11038.0	12119.6	13603.4	16691.0	19103.9	20892.7	22168.4	23569.0	24655.2	20897.3
60°	7603.6	7575.9	8786.9	10501.8	13866.8	18156.3	22510.5	26277.6	26351.6	27890.8	24581.3
62.5°	4275.6	4284.9	5204.7	6669.9	9702.2	14837.5	22431.9	30641.1	30326.8	31676.5	28769.1
65°	2422.1	2482.2	3115.4	3952.0	5810.2	9961.0	19293.4	32379.0	33391.3	34593.1	31311.3
66°	2047.7	2089.3	2630.1	3263.3	4636.1	8079.7	17365.9	32041.6	34352.8	35268.0	31260.5
67.5°	1585.4	1640.9	2093.9	2588.5	3402.0	5593.0	13977.8	30363.7	34528.4	35064.6	30377.6
70°	1086.2	1123.2	1469.9	1964.5	2325.0	2861.2	8357.1	25103.6	31329.8	31782.8	26402.4
72.5°	762.7	781.2	1030.8	1488.4	1788.8	1636.3	4146.2	17860.5	23975.8	24858.6	20536.8
75°	550.1	568.5	707.2	1067.7	1395.9	1072.4	1899.8	11407.8	14703.5	15396.8	12369.2
77.5°	397.5	420.6	480.7	688.7	1012.3	753.4	933.7	5958.1	6933.4	6813.2	5320.2
80°	240.4	263.5	355.9	443.7	739.6	531.6	513.1	2486.8	2459.1	2334.2	1673.3
82.5°	110.9	129.4	189.5	300.4	517.7	369.8	245.0	887.5	776.5	711.8	471.5
85°	32.4	41.6	110.9	226.5	263.5	180.3	147.9	305.1	318.9	272.7	157.2
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°	3730.2	3730.2	3730.2	3730.2	3730.2	3730.2	3730.2	3730.2	3730.2	3730.2	3730.2
2.5°	3767.2	3734.8	3656.2	3536.0	3429.7	3374.3	3295.7	3226.3	3189.4	3184.7	3180.1
5°	3859.6	3771.8	3582.3	3365.0	3203.2	3027.6	2907.4	2819.6	2736.4	2657.8	2704.0
7.5°	3984.4	3845.7	3536.0	3254.1	2902.8	2676.3	2463.7	2338.9	2264.9	2195.6	2186.3
10°	4178.5	4002.9	3503.7	2995.2	2593.1	2260.3	2043.0	1862.8	1761.1	1640.9	1687.1
12.5°	4442.0	4127.7	3383.5	2759.5	2241.8	1890.5	1580.8	1289.6	1127.8	1003.0	1007.7
15°	4705.5	4294.1	3272.6	2472.9	1922.9	1460.6	1007.7	808.9	762.7	734.9	744.2
17.5°	4964.3	4428.1	3101.5	2181.7	1557.7	929.1	734.9	693.3	670.2	642.5	642.5
20°	5278.6	4516.0	2888.9	1913.6	1072.4	688.7	628.6	600.9	563.9	526.9	531.6
22.5°	5583.7	4589.9	2643.9	1571.6	721.1	596.3	526.9	490.0	457.6	420.6	420.6
25°	5888.8	4613.0	2325.0	1127.8	582.4	476.1	411.4	360.5	328.2	295.8	300.4
27.5°	6096.8	4469.7	2024.6	721.1	466.8	360.5	286.6	245.0	217.2	184.9	184.9
30°	6217.0	4206.3	1701.0	508.5	351.3	245.0	171.0	129.4	101.7	78.6	74.0
32.5°	6337.1	3993.6	1335.8	388.3	231.1	129.4	64.7	23.1	0.0	0.0	0.0
35°	6577.5	3753.3	896.7	217.2	78.6	4.6	0.0	0.0	0.0	0.0	0.0
37.5°	6730.0	3420.5	411.4	32.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	7113.7	3254.1	101.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	7737.7	3138.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	8421.8	3092.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	9332.4	3217.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	10293.8	3554.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	11347.7	3873.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	12267.5	4257.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	13959.3	5163.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	16996.1	6942.7	4.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	20416.6	8264.6	50.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	21669.2	8232.3	87.8	4.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	21447.4	7779.3	87.8	4.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	20296.4	6910.3	78.6	9.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	17430.6	5708.5	78.6	13.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	13289.0	4446.6	74.0	18.5	4.6	0.0	0.0	0.0	0.0	0.0	0.0
75°	8019.7	2366.6	60.1	23.1	9.2	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	3194.0	832.0	46.2	18.5	9.2	0.0	0.0	0.0	0.0	0.0	0.0
80°	864.4	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)