

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: P481801

Luminaire Tested: **IFLD-S-SA6D-827-U-T2-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P481801  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA6D-827-U-T2-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens with House Side Shield  
Light Source: (96) 2700K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

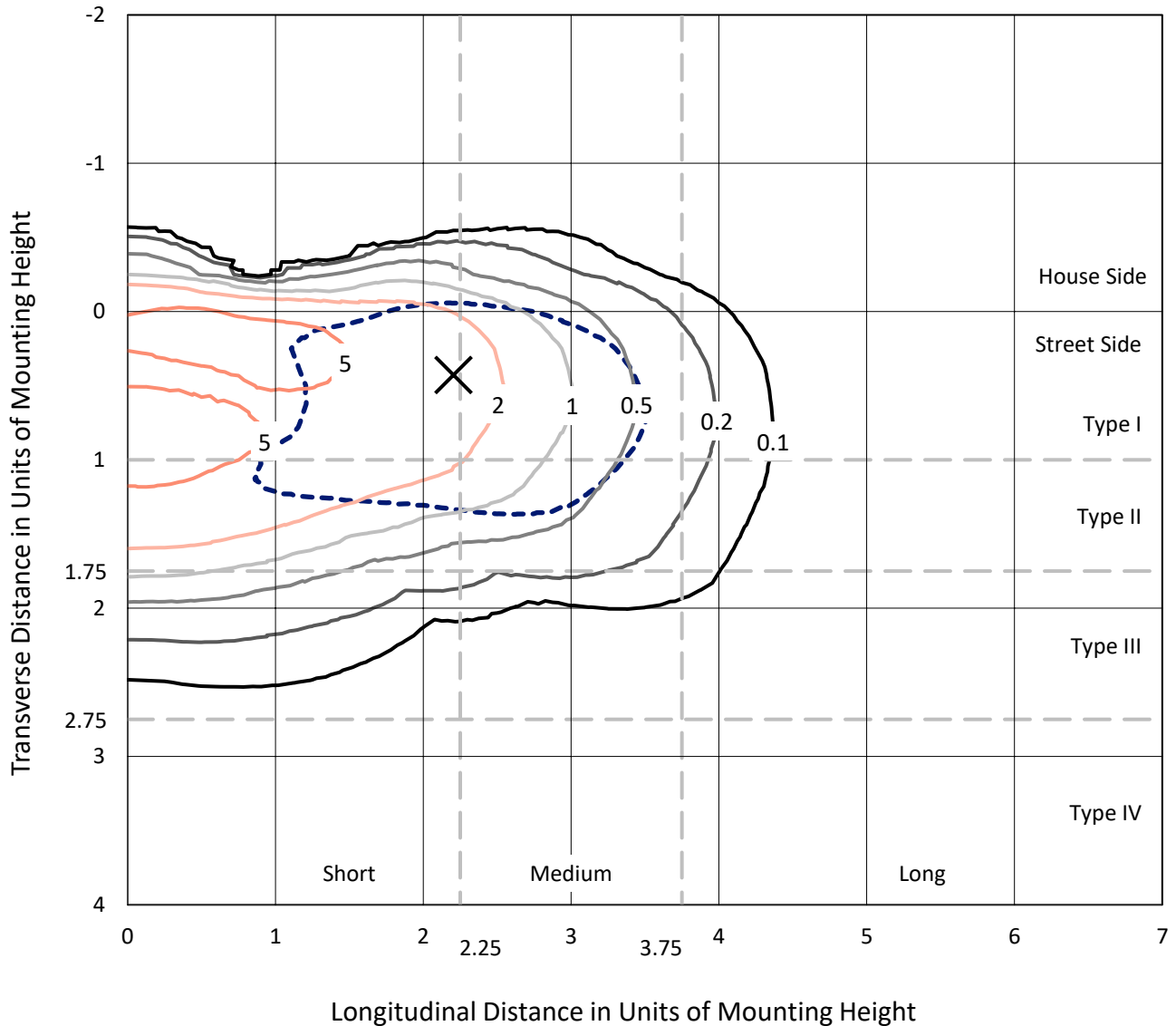
Lumens per Lamp: N/A  
Luminaire Lumens: 24203.9 lumens  
Efficiency: N/A  
Efficacy: 65.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G4

Input Watts (W): 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

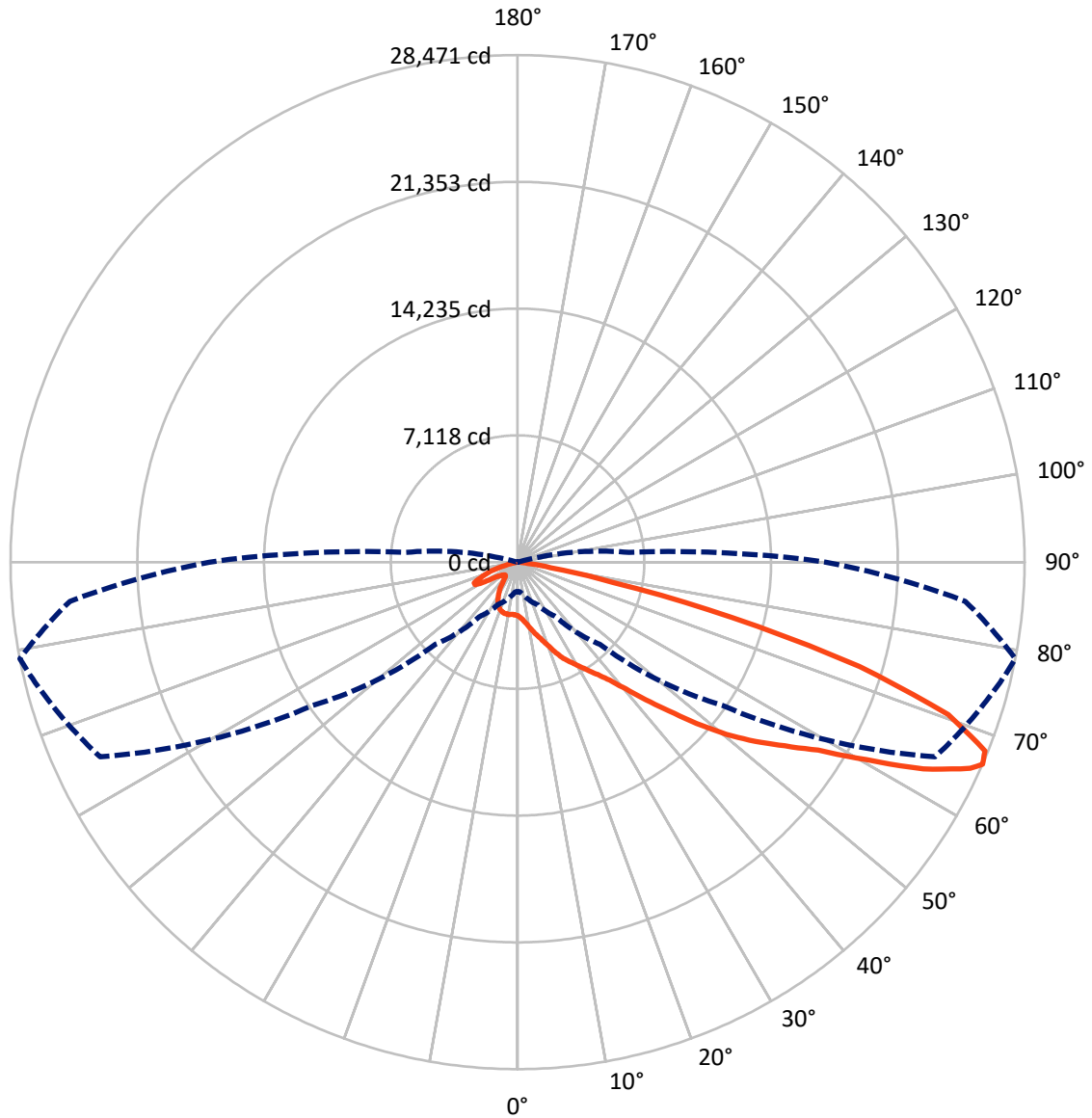
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 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	1817.4	0.0	1817.4
	% Fixture	7.5	0.0	7.5
<b>Street Side</b>	Lumens	22386.6	0.0	22386.6
	% Fixture	92.5	0.0	92.5
<b>Total</b>	Lumens	24203.9	0.0	24203.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	284.8	1.2
10°-20°	783.8	3.2
20°-30°	1302.0	5.4
30°-40°	2236.4	9.2
40°-50°	4051.5	16.7
50°-60°	6404.2	26.5
60°-70°	6516.8	26.9
70°-80°	2485.2	10.3
80°-90°	139.3	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°	24203.9	100.0
0°-180°	24203.9	100.0

**Coefficient of Utilization**



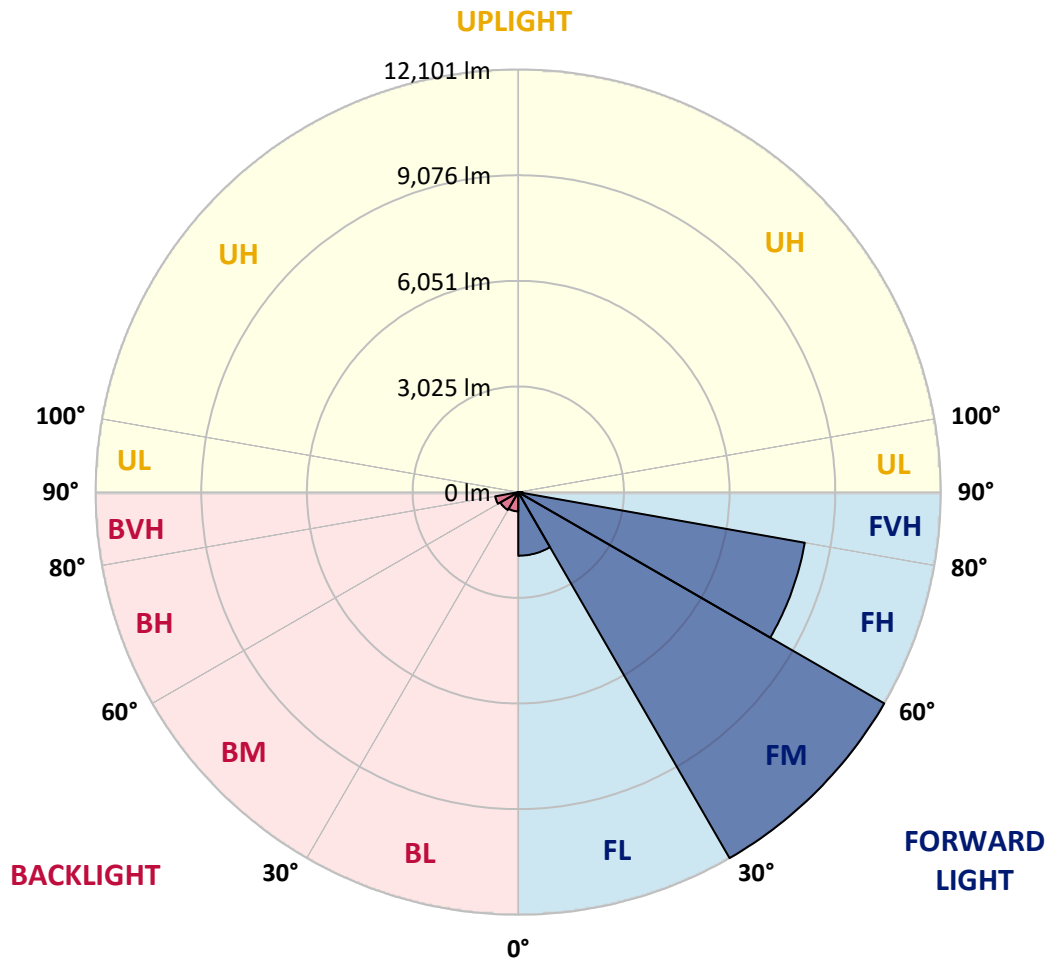
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1820.9	7.5			
FM (30°-60°)	12101.4	50.0			
FH (60°-80°)	8332.0	34.4			G4/12000
FVH (80°-90°)	132.2	0.5			G2/225
BL (0°-30°)	549.6	2.3	B2/1000		
BM (30°-60°)	590.7	2.4	B1/1000		
BH (60°-80°)	670.0	2.8	B2/1000		G2/1000
BVH (80°-90°)	7.1	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°	3011.3	3011.3	3011.3	3011.3	3011.3	3011.3	3011.3	3011.3	3011.3	3011.3	3011.3
2.5°	3410.5	3406.8	3391.9	3365.7	3332.2	3321.0	3272.5	3205.3	3168.0	3126.9	3108.3
5°	3645.6	3626.9	3671.7	3653.1	3660.5	3571.0	3511.3	3462.8	3321.0	3265.0	3175.4
7.5°	3697.8	3716.5	3712.8	3742.6	3772.5	3806.1	3765.0	3694.1	3552.3	3470.2	3373.2
10°	3697.8	3690.4	3720.2	3761.3	3847.1	3921.7	4033.7	3940.4	3832.2	3735.2	3559.8
12.5°	3630.7	3619.5	3649.3	3735.2	3888.1	4041.1	4164.3	4253.8	4100.8	4022.5	3794.9
15°	3425.4	3414.3	3537.4	3690.4	3891.9	4141.9	4399.4	4544.9	4440.4	4317.3	4063.5
17.5°	3171.7	3186.6	3317.2	3571.0	3891.9	4190.4	4518.8	4835.9	4821.0	4664.3	4399.4
20°	3085.9	3097.1	3227.7	3410.5	3776.2	4224.0	4705.3	5153.1	5242.7	5056.1	4709.1
22.5°	3250.1	3238.9	3250.1	3362.0	3697.8	4194.1	4828.5	5515.0	5675.5	5530.0	5115.8
25°	3809.8	3802.3	3709.0	3537.4	3653.1	4127.0	4891.9	5753.9	6123.3	5988.9	5444.1
27.5°	4630.7	4600.8	4455.3	4097.1	3862.0	4168.0	4996.4	5985.2	6515.1	6362.1	5738.9
30°	5511.3	5440.4	5250.1	4802.3	4403.1	4321.0	5056.1	6156.9	6951.6	6757.6	5996.4
32.5°	6119.5	6212.8	6153.1	5697.9	5085.9	4675.5	5153.1	6373.3	7354.6	7227.8	6436.7
35°	7059.9	7168.1	6918.1	6515.1	5899.4	5238.9	5358.3	6548.7	7974.1	7761.4	6847.2
37.5°	8246.4	8328.5	8149.4	7384.5	6735.2	5933.0	5780.0	6914.3	8507.6	8406.9	7373.3
40°	8843.5	9239.0	8985.3	8295.0	7597.2	6903.1	6477.8	7343.4	9436.8	9354.7	8100.9
42.5°	9668.1	9865.9	9735.3	9224.1	8496.5	7940.5	7339.7	8179.3	10563.7	10563.7	9086.0
45°	10541.3	10548.7	10541.3	10123.4	9477.8	9190.5	8503.9	9227.8	11776.4	11910.7	10265.2
47.5°	11257.7	11481.6	11462.9	11212.9	10712.9	10604.7	9668.1	10421.9	13298.8	13533.9	11414.4
50°	11627.1	11877.1	11951.8	12082.4	12060.0	12287.6	10940.5	11806.2	14612.3	15190.6	12892.1
52.5°	11526.4	11545.0	12004.0	12518.9	13339.8	13977.9	12474.2	13377.2	16149.6	16720.5	14033.9
55°	10701.7	10630.8	11574.9	12164.4	13862.2	15011.5	14597.3	15336.2	17347.4	18216.8	15213.0
57.5°	8892.0	8910.6	9783.8	10981.6	13474.2	15422.0	16866.0	17895.9	19026.5	19903.4	16869.8
60°	6138.2	6115.8	7093.4	8477.8	11194.3	14657.0	18172.0	21213.2	21272.9	22515.4	19843.7
62.5°	3451.6	3459.0	4201.6	5384.4	7832.3	11977.9	18108.6	24735.6	24481.9	25571.5	23224.4
65°	1955.3	2003.8	2515.0	3190.4	4690.4	8041.2	15575.0	26138.6	26955.8	27926.0	25276.7
66°	1653.0	1686.6	2123.2	2634.4	3742.6	6522.5	14019.0	25866.2	27732.0	28470.8	25235.6
67.5°	1279.9	1324.7	1690.3	2089.6	2746.3	4515.0	11283.8	24511.7	27873.7	28306.6	24522.9
70°	876.9	906.7	1186.6	1585.9	1876.9	2309.8	6746.4	20265.4	25291.6	25657.3	21313.9
72.5°	615.7	630.6	832.1	1201.5	1444.1	1320.9	3347.1	14418.2	19354.9	20067.6	16578.7
75°	444.0	459.0	570.9	862.0	1126.9	865.7	1533.6	9209.2	11869.7	12429.4	9985.3
77.5°	320.9	339.6	388.1	556.0	817.2	608.2	753.7	4809.8	5597.1	5500.1	4294.9
80°	194.0	212.7	287.3	358.2	597.0	429.1	414.2	2007.5	1985.1	1884.4	1350.8
82.5°	89.6	104.5	153.0	242.5	417.9	298.5	197.8	716.4	626.9	574.6	380.6
85°	26.1	33.6	89.6	182.8	212.7	145.5	119.4	246.3	257.5	220.2	126.9
87.5°	0.0	3.7	41.0	44.8	63.4	48.5	44.8	63.4	119.4	97.0	41.0
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°	3011.3	3011.3	3011.3	3011.3	3011.3	3011.3	3011.3	3011.3	3011.3	3011.3	3011.3
2.5°	3041.1	3015.0	2951.6	2854.5	2768.7	2723.9	2660.5	2604.5	2574.7	2571.0	2567.2
5°	3115.7	3044.8	2891.9	2716.5	2585.9	2444.1	2347.1	2276.2	2209.0	2145.6	2182.9
7.5°	3216.5	3104.5	2854.5	2626.9	2343.3	2160.5	1988.8	1888.1	1828.4	1772.4	1765.0
10°	3373.2	3231.4	2828.4	2418.0	2093.3	1824.7	1649.3	1503.8	1421.7	1324.7	1362.0
12.5°	3585.9	3332.2	2731.4	2227.7	1809.7	1526.2	1276.1	1041.1	910.5	809.7	813.5
15°	3798.6	3466.5	2641.8	1996.3	1552.3	1179.1	813.5	653.0	615.7	593.3	600.8
17.5°	4007.6	3574.7	2503.8	1761.2	1257.5	750.0	593.3	559.7	541.1	518.7	518.7
20°	4261.3	3645.6	2332.1	1544.8	865.7	556.0	507.5	485.1	455.2	425.4	429.1
22.5°	4507.6	3705.3	2134.4	1268.7	582.1	481.4	425.4	395.5	369.4	339.6	339.6
25°	4753.8	3724.0	1876.9	910.5	470.2	384.3	332.1	291.1	264.9	238.8	242.5
27.5°	4921.7	3608.3	1634.4	582.1	376.9	291.1	231.3	197.8	175.4	149.3	149.3
30°	5018.8	3395.6	1373.2	410.5	283.6	197.8	138.1	104.5	82.1	63.4	59.7
32.5°	5115.8	3224.0	1078.4	313.4	186.6	104.5	52.2	18.7	0.0	0.0	0.0
35°	5309.8	3029.9	723.9	175.4	63.4	3.7	0.0	0.0	0.0	0.0	0.0
37.5°	5433.0	2761.3	332.1	26.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	5742.7	2626.9	82.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	6246.4	2533.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	6798.7	2496.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	7533.7	2597.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	8309.9	2869.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	9160.6	3126.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	9903.2	3436.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	11268.9	4168.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	13720.5	5604.6	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	16481.7	6671.8	41.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	17492.9	6645.7	70.9	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	17313.8	6280.0	70.9	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	16384.7	5578.5	63.4	7.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	14071.2	4608.3	63.4	11.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	10727.8	3589.6	59.7	14.9	3.7	0.0	0.0	0.0	0.0	0.0	0.0
75°	6474.0	1910.5	48.5	18.7	7.5	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	2578.4	671.7	37.3	14.9	7.5	0.0	0.0	0.0	0.0	0.0	0.0
80°	697.8	201.5	22.4	14.9	11.2	3.7	0.0	0.0	0.0	0.0	0.0
82.5°	182.8	74.6	18.7	14.9	7.5	3.7	0.0	0.0	0.0	0.0	0.0
85°	70.9	29.9	14.9	11.2	11.2	7.5	3.7	0.0	0.0	0.0	0.0
87.5°	22.4	11.2	11.2	7.5	7.5	3.7	3.7	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)