

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: P481618

Luminaire Tested: **IFLD-L-SA8A-730-U-T2-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P481618  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8A-730-U-T2-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens with House Side Shield  
Light Source: (128) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

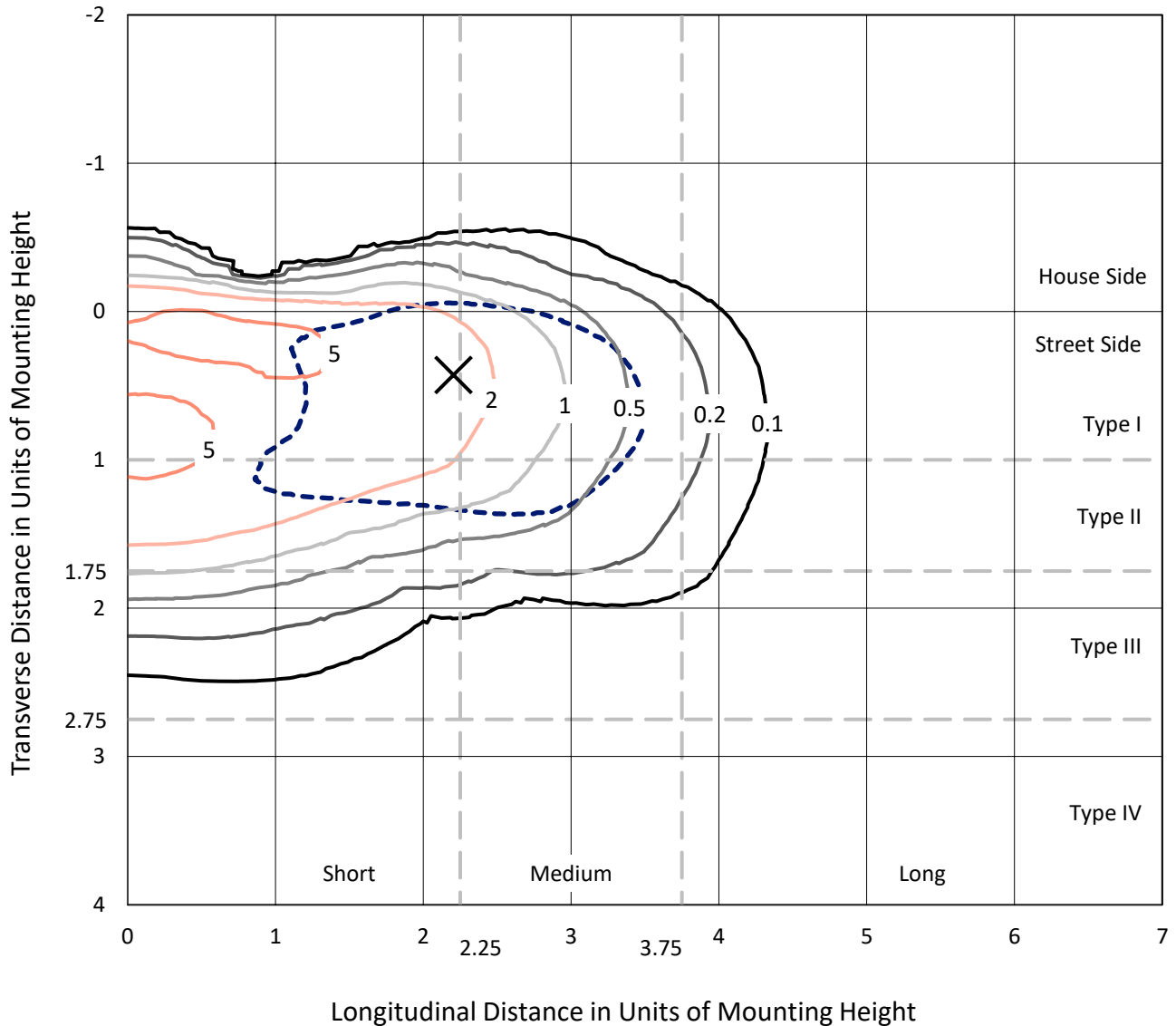
Lumens per Lamp: N/A  
Luminaire Lumens: 22463.8 lumens  
Efficiency: N/A  
Efficacy: 90.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G4

Input Watts (W): 247.8  
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

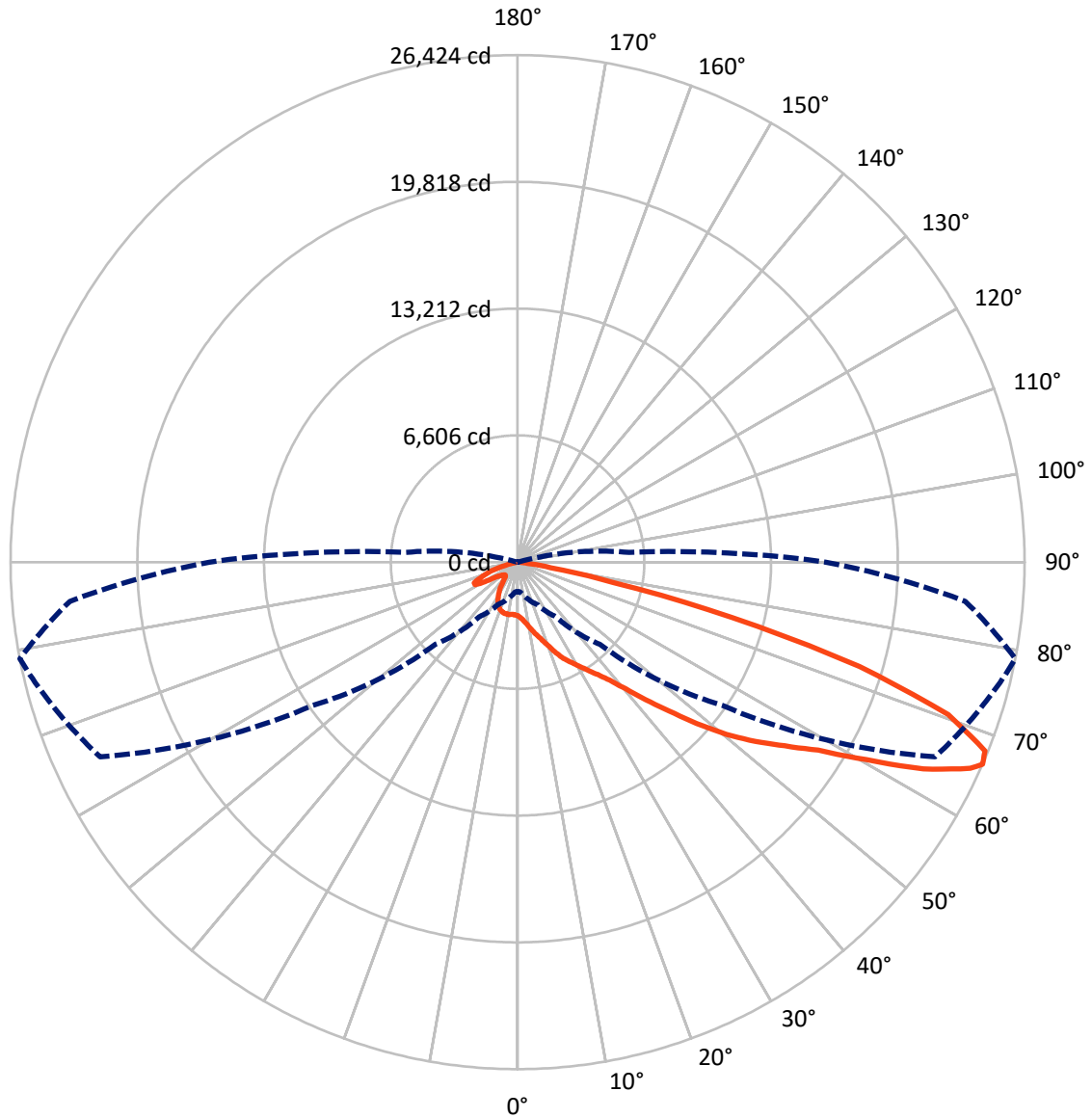
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 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	1686.7	0.0	1686.7
	% Fixture	7.5	0.0	7.5
<b>Street Side</b>	Lumens	20777.1	0.0	20777.1
	% Fixture	92.5	0.0	92.5
<b>Total</b>	Lumens	22463.8	0.0	22463.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	264.3	1.2
10°-20°	727.4	3.2
20°-30°	1208.4	5.4
30°-40°	2075.6	9.2
40°-50°	3760.2	16.7
50°-60°	5943.8	26.5
60°-70°	6048.3	26.9
70°-80°	2306.5	10.3
80°-90°	129.3	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°	22463.8	100.0
0°-180°	22463.8	100.0

**Coefficient of Utilization**

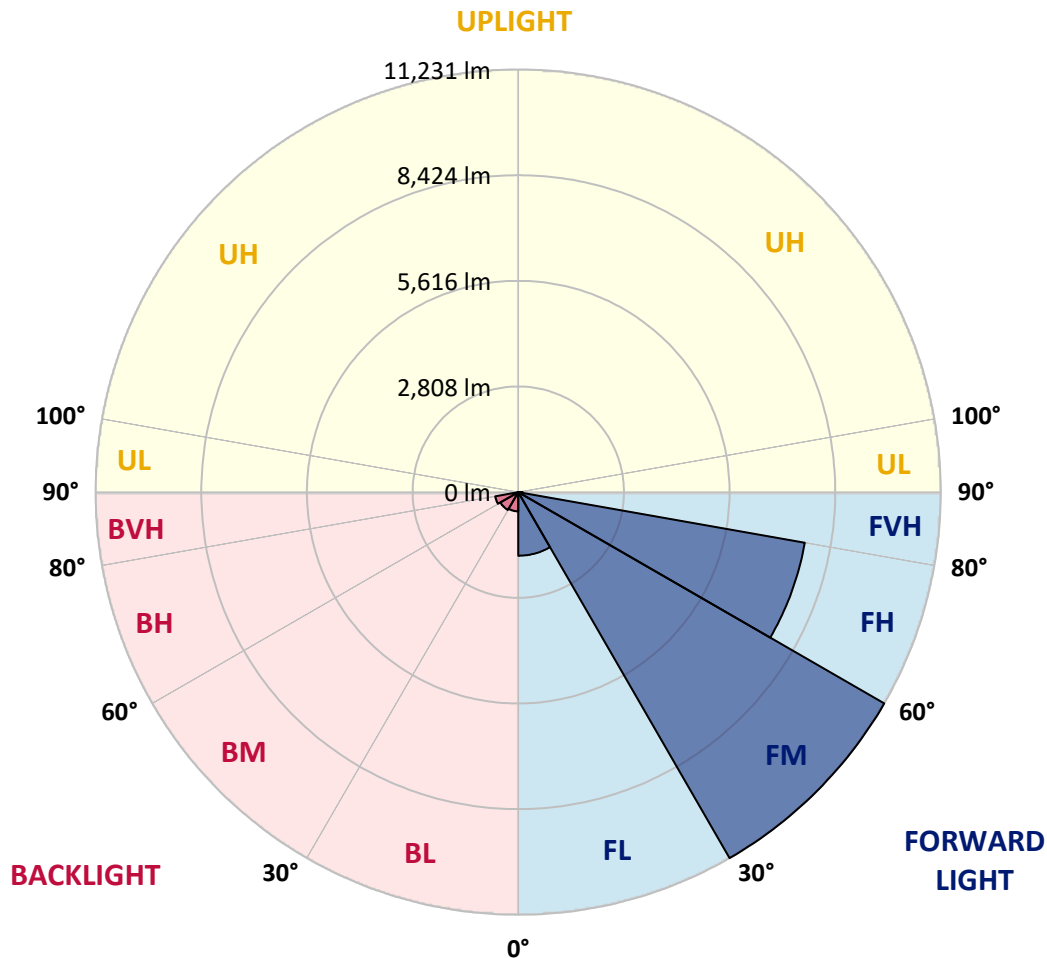


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1690.0	7.5			
FM (30°-60°)	11231.4	50.0			
FH (60°-80°)	7733.0	34.4			G4/12000
FVH (80°-90°)	122.7	0.5			G2/225
BL (0°-30°)	510.1	2.3	B2/1000		
BM (30°-60°)	548.2	2.4	B1/1000		
BH (60°-80°)	621.8	2.8	B2/1000		G2/1000
BVH (80°-90°)	6.6	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°	2794.8	2794.8	2794.8	2794.8	2794.8	2794.8	2794.8	2794.8	2794.8	2794.8	2794.8
2.5°	3165.3	3161.9	3148.0	3123.8	3092.6	3082.2	3037.2	2974.9	2940.2	2902.1	2884.8
5°	3383.5	3366.2	3407.7	3390.4	3397.4	3314.2	3258.8	3213.8	3082.2	3030.3	2947.1
7.5°	3432.0	3449.3	3445.8	3473.5	3501.2	3532.4	3494.3	3428.5	3296.9	3220.7	3130.7
10°	3432.0	3425.1	3452.8	3490.9	3570.5	3639.8	3743.7	3657.1	3556.7	3466.6	3303.8
12.5°	3369.6	3359.3	3387.0	3466.6	3608.6	3750.6	3864.9	3948.0	3806.0	3733.3	3522.0
15°	3179.2	3168.8	3283.1	3425.1	3612.1	3844.1	4083.1	4218.1	4121.2	4006.9	3771.4
17.5°	2943.7	2957.5	3078.7	3314.2	3612.1	3889.1	4193.9	4488.2	4474.4	4328.9	4083.1
20°	2864.0	2874.4	2995.6	3165.3	3504.7	3920.3	4367.0	4782.6	4865.7	4692.6	4370.5
22.5°	3016.4	3006.0	3016.4	3120.3	3432.0	3892.6	4481.3	5118.5	5267.5	5132.4	4748.0
25°	3535.9	3529.0	3442.4	3283.1	3390.4	3830.2	4540.2	5340.2	5683.0	5558.4	5052.7
27.5°	4297.8	4270.1	4135.0	3802.5	3584.4	3868.3	4637.2	5554.9	6046.7	5904.7	5326.3
30°	5115.1	5049.3	4872.7	4457.1	4086.5	4010.3	4692.6	5714.2	6451.9	6271.8	5565.3
32.5°	5679.6	5766.2	5710.7	5288.2	4720.3	4339.3	4782.6	5915.1	6825.9	6708.1	5973.9
35°	6552.3	6652.7	6420.7	6046.7	5475.2	4862.3	4973.1	6077.8	7400.8	7203.4	6354.9
37.5°	7653.6	7729.8	7563.5	6853.6	6251.0	5506.4	5364.4	6417.2	7896.0	7802.5	6843.2
40°	8207.7	8574.8	8339.3	7698.6	7051.0	6406.8	6012.0	6815.5	8758.3	8682.1	7518.5
42.5°	8973.0	9156.6	9035.4	8560.9	7885.6	7369.6	6812.0	7591.2	9804.2	9804.2	8432.8
45°	9783.4	9790.3	9783.4	9395.5	8796.4	8529.8	7892.5	8564.4	10929.7	11054.4	9527.1
47.5°	10448.3	10656.1	10638.8	10406.8	9942.7	9842.3	8973.0	9672.6	12342.7	12560.9	10593.8
50°	10791.2	11023.2	11092.5	11213.7	11192.9	11404.2	10154.0	10957.4	13561.7	14098.5	11965.2
52.5°	10697.7	10715.0	11141.0	11618.9	12380.8	12973.0	11577.3	12415.4	14988.5	15518.4	13024.9
55°	9932.3	9866.5	10742.7	11289.9	12865.6	13932.3	13547.9	14233.6	16100.2	16907.1	14119.3
57.5°	8252.7	8270.0	9080.4	10192.1	12505.5	14313.2	15653.5	16609.3	17658.6	18472.5	15656.9
60°	5696.9	5676.1	6583.5	7868.3	10389.5	13603.3	16865.6	19688.0	19743.4	20896.7	18417.1
62.5°	3203.4	3210.3	3899.5	4997.3	7269.2	11116.7	16806.7	22957.3	22721.8	23733.0	21554.7
65°	1814.7	1859.7	2334.2	2961.0	4353.2	7463.1	14455.2	24259.4	25017.8	25918.3	23459.4
66°	1534.2	1565.3	1970.5	2445.0	3473.5	6053.6	13011.1	24006.6	25738.2	26423.9	23421.3
67.5°	1187.9	1229.4	1568.8	1939.4	2548.9	4190.4	10472.6	22749.5	25869.8	26271.5	22759.9
70°	813.8	841.5	1101.3	1471.8	1742.0	2143.7	6261.4	18808.4	23473.3	23812.7	19781.5
72.5°	571.4	585.3	772.3	1115.1	1340.2	1226.0	3106.5	13381.6	17963.4	18624.8	15386.8
75°	412.1	426.0	529.9	800.0	1045.9	803.5	1423.4	8547.1	11016.3	11535.8	9267.4
77.5°	297.8	315.1	360.2	516.0	758.4	564.5	699.6	4464.0	5194.7	5104.7	3986.1
80°	180.1	197.4	266.7	332.5	554.1	398.3	384.4	1863.2	1842.4	1748.9	1253.7
82.5°	83.1	97.0	142.0	225.1	387.9	277.1	183.5	664.9	581.8	533.3	353.2
85°	24.2	31.2	83.1	169.7	197.4	135.1	110.8	228.6	239.0	204.3	117.7
87.5°	0.0	3.5	38.1	41.6	58.9	45.0	41.6	58.9	110.8	90.0	38.1
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°	2794.8	2794.8	2794.8	2794.8	2794.8	2794.8	2794.8	2794.8	2794.8	2794.8	2794.8
2.5°	2822.5	2798.2	2739.4	2649.3	2569.7	2528.1	2469.2	2417.3	2389.6	2386.1	2382.7
5°	2891.7	2825.9	2683.9	2521.2	2400.0	2268.4	2178.3	2112.5	2050.2	1991.3	2025.9
7.5°	2985.2	2881.3	2649.3	2438.1	2174.9	2005.2	1845.9	1752.4	1696.9	1645.0	1638.1
10°	3130.7	2999.1	2625.1	2244.1	1942.8	1693.5	1530.7	1395.7	1319.5	1229.4	1264.1
12.5°	3328.1	3092.6	2535.0	2067.5	1679.6	1416.4	1184.4	966.2	845.0	751.5	755.0
15°	3525.5	3217.3	2451.9	1852.8	1440.7	1094.4	755.0	606.1	571.4	550.6	557.6
17.5°	3719.4	3317.7	2323.8	1634.6	1167.1	696.1	550.6	519.5	502.2	481.4	481.4
20°	3954.9	3383.5	2164.5	1433.7	803.5	516.0	471.0	450.2	422.5	394.8	398.3
22.5°	4183.5	3438.9	1980.9	1177.5	540.3	446.7	394.8	367.1	342.9	315.1	315.1
25°	4412.1	3456.2	1742.0	845.0	436.4	356.7	308.2	270.1	245.9	221.6	225.1
27.5°	4567.9	3348.9	1516.9	540.3	349.8	270.1	214.7	183.5	162.8	138.5	138.5
30°	4657.9	3151.5	1274.4	380.9	263.2	183.5	128.1	97.0	76.2	58.9	55.4
32.5°	4748.0	2992.2	1000.9	290.9	173.2	97.0	48.5	17.3	0.0	0.0	0.0
35°	4928.1	2812.1	671.9	162.8	58.9	3.5	0.0	0.0	0.0	0.0	0.0
37.5°	5042.4	2562.7	308.2	24.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	5329.8	2438.1	76.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	5797.3	2351.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	6309.9	2316.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	6992.1	2410.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	7712.4	2663.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	8502.0	2902.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	9191.2	3189.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	10458.7	3868.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	12734.0	5201.7	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	15296.8	6192.1	38.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	16235.3	6167.9	65.8	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	16069.0	5828.5	65.8	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	15206.7	5177.4	58.9	6.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	13059.6	4277.0	58.9	10.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	9956.6	3331.6	55.4	13.9	3.5	0.0	0.0	0.0	0.0	0.0	0.0
75°	6008.6	1773.1	45.0	17.3	6.9	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	2393.0	623.4	34.6	13.9	6.9	0.0	0.0	0.0	0.0	0.0	0.0
80°	647.6	187.0	20.8	13.9	10.4	3.5	0.0	0.0	0.0	0.0	0.0
82.5°	169.7	69.3	17.3	13.9	6.9	3.5	0.0	0.0	0.0	0.0	0.0
85°	65.8	27.7	13.9	10.4	10.4	6.9	3.5	0.0	0.0	0.0	0.0
87.5°	20.8	10.4	10.4	6.9	6.9	3.5	3.5	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)