

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: P481615

Luminaire Tested: **IFLD-L-SA7C-730-U-T2-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P481615  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7C-730-U-T2-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens with House Side Shield  
Light Source: (112) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

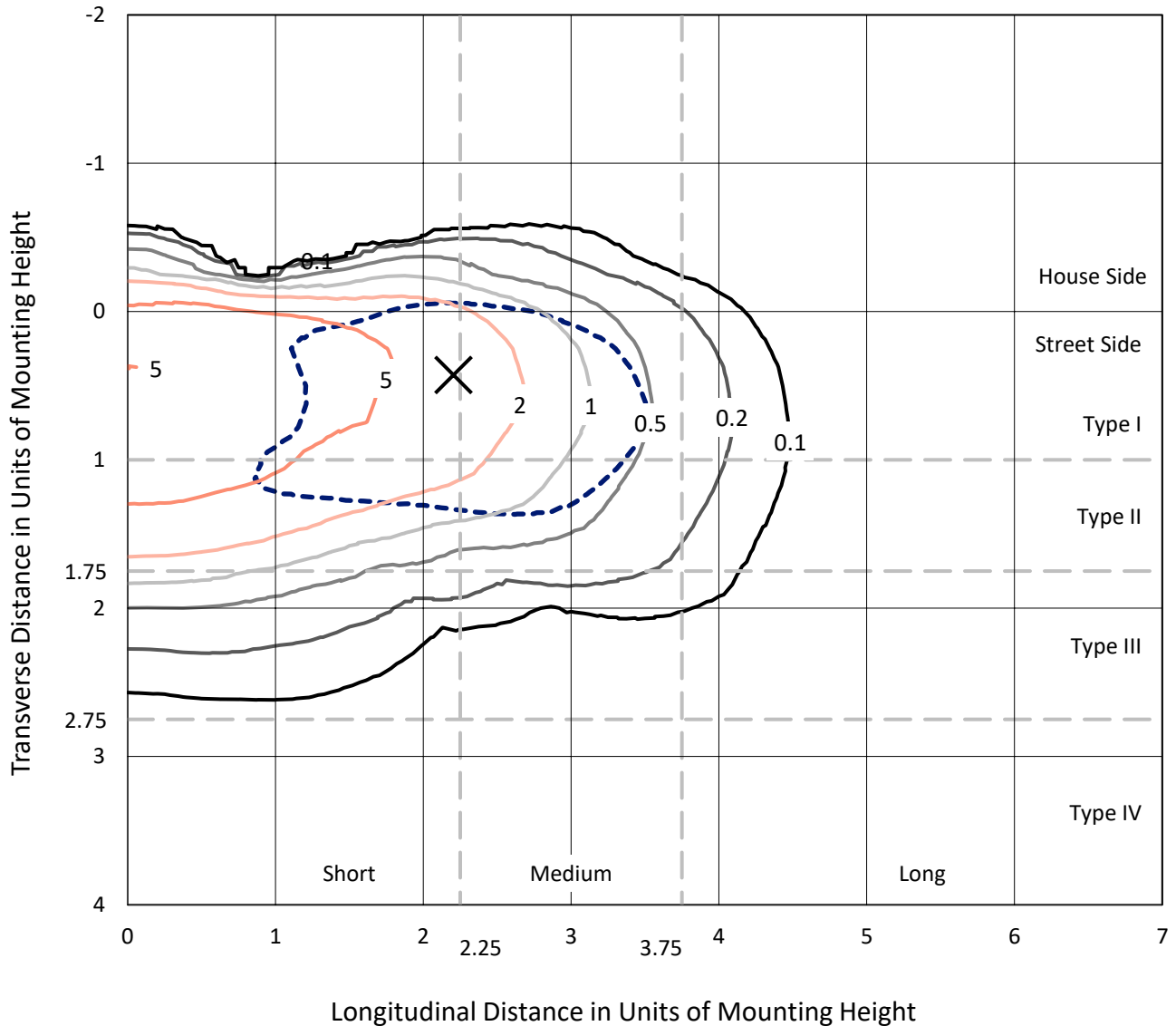
Lumens per Lamp: N/A  
Luminaire Lumens: 29070.3 lumens  
Efficiency: N/A  
Efficacy: 78.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G4

Input Watts (W): 369  
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

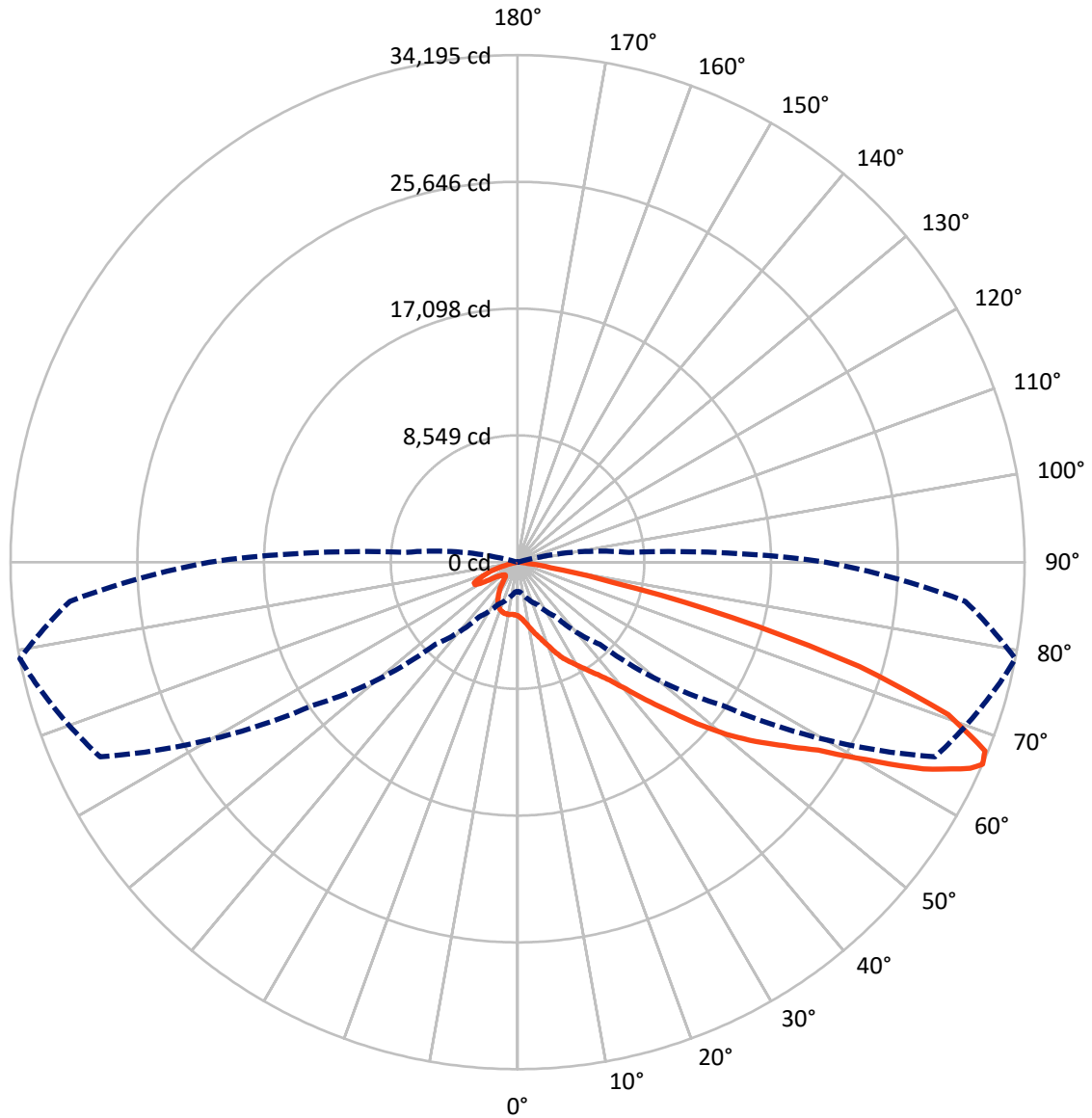
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.7 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	2182.8	0.0	2182.8
	% Fixture	7.5	0.0	7.5
<b>Street Side</b>	Lumens	26887.5	0.0	26887.5
	% Fixture	92.5	0.0	92.5
<b>Total</b>	Lumens	29070.3	0.0	29070.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	342.0	1.2
10°-20°	941.3	3.2
20°-30°	1563.8	5.4
30°-40°	2686.0	9.2
40°-50°	4866.1	16.7
50°-60°	7691.8	26.5
60°-70°	7827.0	26.9
70°-80°	2984.8	10.3
80°-90°	167.3	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°	29070.3	100.0
0°-180°	29070.3	100.0

**Coefficient of Utilization**



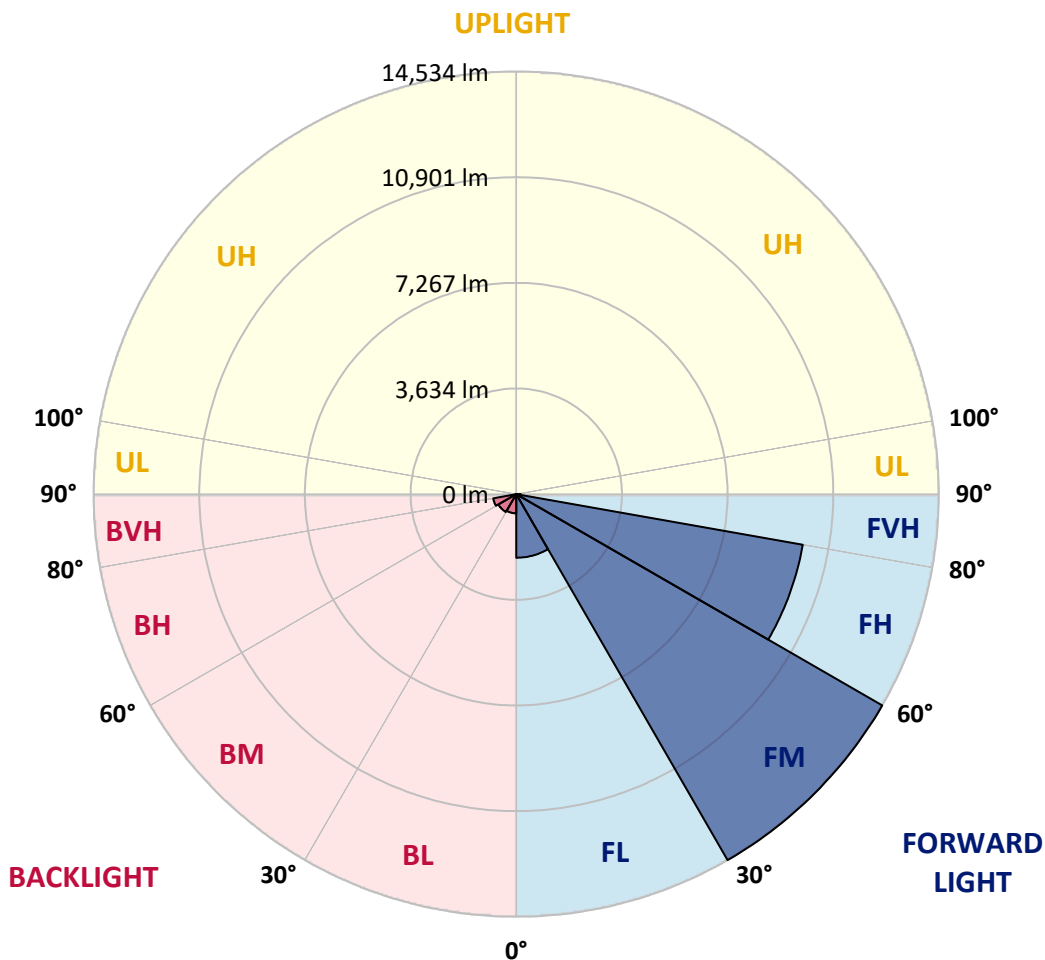
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2187.1	7.5			
FM (30°-60°)	14534.5	50.0			
FH (60°-80°)	10007.2	34.4			G4/12000
FVH (80°-90°)	158.8	0.5			G2/225
BL (0°-30°)	660.1	2.3	B2/1000		
BM (30°-60°)	709.4	2.4	B1/1000		
BH (60°-80°)	804.7	2.8	B2/1000		G2/1000
BVH (80°-90°)	8.6	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°	3616.7	3616.7	3616.7	3616.7	3616.7	3616.7	3616.7	3616.7	3616.7	3616.7	3616.7
2.5°	4096.2	4091.8	4073.8	4042.5	4002.1	3988.7	3930.4	3849.7	3804.9	3755.6	3733.2
5°	4378.6	4356.2	4409.9	4387.5	4396.5	4288.9	4217.2	4159.0	3988.7	3921.4	3813.9
7.5°	4441.3	4463.7	4459.2	4495.1	4531.0	4571.3	4522.0	4436.8	4266.5	4167.9	4051.4
10°	4441.3	4432.4	4468.2	4517.5	4620.6	4710.2	4844.7	4732.6	4602.7	4486.1	4275.5
12.5°	4360.7	4347.2	4383.1	4486.1	4669.9	4853.6	5001.5	5109.1	4925.3	4831.2	4557.8
15°	4114.2	4100.7	4248.6	4432.4	4674.4	4974.6	5283.9	5458.7	5333.2	5185.3	4880.5
17.5°	3809.4	3827.3	3984.2	4288.9	4674.4	5032.9	5427.3	5808.2	5790.3	5602.1	5283.9
20°	3706.3	3719.8	3876.6	4096.2	4535.4	5073.2	5651.4	6189.2	6296.7	6072.6	5655.8
22.5°	3903.5	3890.1	3903.5	4038.0	4441.3	5037.4	5799.3	6623.9	6816.6	6641.8	6144.3
25°	4575.8	4566.8	4454.8	4248.6	4387.5	4956.7	5875.4	6910.7	7354.4	7193.1	6538.7
27.5°	5561.7	5525.9	5351.1	4920.9	4638.5	5006.0	6000.9	7188.6	7825.0	7641.2	6892.8
30°	6619.4	6534.3	6305.7	5767.9	5288.4	5189.8	6072.6	7394.7	8349.3	8116.3	7202.0
32.5°	7349.9	7462.0	7390.2	6843.5	6108.5	5615.5	6189.2	7654.7	8833.3	8681.0	7730.9
35°	8479.3	8609.3	8309.0	7825.0	7085.5	6292.2	6435.7	7865.3	9577.3	9321.8	8223.8
37.5°	9904.5	10003.1	9787.9	8869.2	8089.4	7125.8	6942.1	8304.5	10218.2	10097.2	8855.7
40°	10621.5	11096.6	10791.8	9962.7	9124.6	8291.1	7780.2	8819.9	11334.1	11235.5	9729.7
42.5°	11612.0	11849.5	11692.6	11078.7	10204.7	9537.0	8815.4	9823.8	12687.6	12687.6	10912.8
45°	12660.7	12669.6	12660.7	12158.7	11383.4	11038.3	10213.7	11083.1	14144.1	14305.4	12329.0
47.5°	13521.2	13790.1	13767.6	13467.4	12866.8	12736.9	11612.0	12517.3	15972.6	16255.0	13709.4
50°	13964.8	14265.1	14354.7	14511.6	14484.7	14758.1	13140.2	14180.0	17550.2	18244.8	15484.1
52.5°	13843.8	13866.2	14417.5	15036.0	16021.9	16788.3	14982.2	16066.7	19396.6	20082.3	16855.5
55°	12853.4	12768.2	13902.1	14610.2	16649.3	18029.7	17532.2	18419.6	20835.2	21879.4	18271.7
57.5°	10679.8	10702.2	11750.9	13189.5	16183.3	18522.7	20257.1	21494.0	22852.0	23905.1	20261.6
60°	7372.3	7345.4	8519.6	10182.3	13445.0	17603.9	21825.7	25478.2	25549.9	27042.3	23833.4
62.5°	4145.5	4154.5	5046.3	6467.0	9407.0	14386.1	21749.5	29708.9	29404.1	30712.8	27893.8
65°	2348.4	2406.6	3020.6	3831.8	5633.4	9658.0	18706.4	31394.0	32375.5	33540.7	30358.7
66°	1985.4	2025.7	2550.1	3164.0	4495.1	7833.9	16837.6	31066.8	33307.7	34195.0	30309.4
67.5°	1537.2	1591.0	2030.2	2509.7	3298.5	5422.8	13552.5	29440.0	33478.0	33997.8	29453.4
70°	1053.2	1089.0	1425.2	1904.7	2254.3	2774.1	8102.8	24339.9	30376.7	30815.9	25599.2
72.5°	739.5	757.4	999.4	1443.1	1734.4	1586.5	4020.0	17317.1	23246.3	24102.3	19912.0
75°	533.3	551.2	685.7	1035.3	1353.5	1039.7	1842.0	11060.7	14256.1	14928.4	11992.9
77.5°	385.4	407.8	466.1	667.8	981.5	730.5	905.3	5776.9	6722.5	6606.0	5158.4
80°	233.0	255.5	345.1	430.2	717.1	515.4	497.5	2411.1	2384.2	2263.2	1622.4
82.5°	107.6	125.5	183.7	291.3	501.9	358.5	237.5	860.5	752.9	690.2	457.1
85°	31.4	40.3	107.6	219.6	255.5	174.8	143.4	295.8	309.2	264.4	152.4
87.5°	0.0	4.5	49.3	53.8	76.2	58.3	53.8	76.2	143.4	116.5	49.3
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°	3616.7	3616.7	3616.7	3616.7	3616.7	3616.7	3616.7	3616.7	3616.7	3616.7	3616.7
2.5°	3652.5	3621.2	3545.0	3428.5	3325.4	3271.6	3195.4	3128.2	3092.3	3087.9	3083.4
5°	3742.2	3657.0	3473.3	3262.6	3105.8	2935.5	2819.0	2733.8	2653.1	2577.0	2621.8
7.5°	3863.2	3728.7	3428.5	3155.1	2814.5	2594.9	2388.7	2267.7	2196.0	2128.8	2119.8
10°	4051.4	3881.1	3397.1	2904.1	2514.2	2191.5	1980.9	1806.1	1707.5	1591.0	1635.8
12.5°	4306.9	4002.1	3280.6	2675.5	2173.6	1833.0	1532.7	1250.4	1093.5	972.5	977.0
15°	4562.3	4163.5	3173.0	2397.7	1864.4	1416.2	977.0	784.3	739.5	712.6	721.5
17.5°	4813.3	4293.4	3007.2	2115.3	1510.3	900.8	712.6	672.2	649.8	623.0	623.0
20°	5118.0	4378.6	2801.0	1855.4	1039.7	667.8	609.5	582.6	546.8	510.9	515.4
22.5°	5413.8	4450.3	2563.5	1523.8	699.1	578.1	510.9	475.1	443.7	407.8	407.8
25°	5709.6	4472.7	2254.3	1093.5	564.7	461.6	398.9	349.6	318.2	286.8	291.3
27.5°	5911.3	4333.8	1963.0	699.1	452.6	349.6	277.9	237.5	210.6	179.3	179.3
30°	6027.8	4078.3	1649.2	493.0	340.6	237.5	165.8	125.5	98.6	76.2	71.7
32.5°	6144.3	3872.1	1295.2	376.5	224.1	125.5	62.7	22.4	0.0	0.0	0.0
35°	6377.4	3639.1	869.4	210.6	76.2	4.5	0.0	0.0	0.0	0.0	0.0
37.5°	6525.3	3316.4	398.9	31.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	6897.3	3155.1	98.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	7502.3	3043.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	8165.6	2998.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	9048.5	3119.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	9980.6	3446.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	11002.5	3755.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	11894.3	4127.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	13534.6	5006.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	16479.0	6731.4	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	19795.5	8013.2	49.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	21010.0	7981.8	85.2	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	20794.9	7542.6	85.2	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	19678.9	6700.1	76.2	9.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	16900.3	5534.8	76.2	13.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	12884.8	4311.4	71.7	17.9	4.5	0.0	0.0	0.0	0.0	0.0	0.0
75°	7775.7	2294.6	58.3	22.4	9.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	3096.8	806.7	44.8	17.9	9.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	838.1	242.0	26.9	17.9	13.4	4.5	0.0	0.0	0.0	0.0	0.0
82.5°	219.6	89.6	22.4	17.9	9.0	4.5	0.0	0.0	0.0	0.0	0.0
85°	85.2	35.9	17.9	13.4	13.4	9.0	4.5	0.0	0.0	0.0	0.0
87.5°	26.9	13.4	13.4	9.0	9.0	4.5	4.5	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)