

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: P482084

Luminaire Tested: **IFLD-L-SA7D-740-U-T2R-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P482084  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7D-740-U-T2R-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens with House Side Shield  
Light Source: (112) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

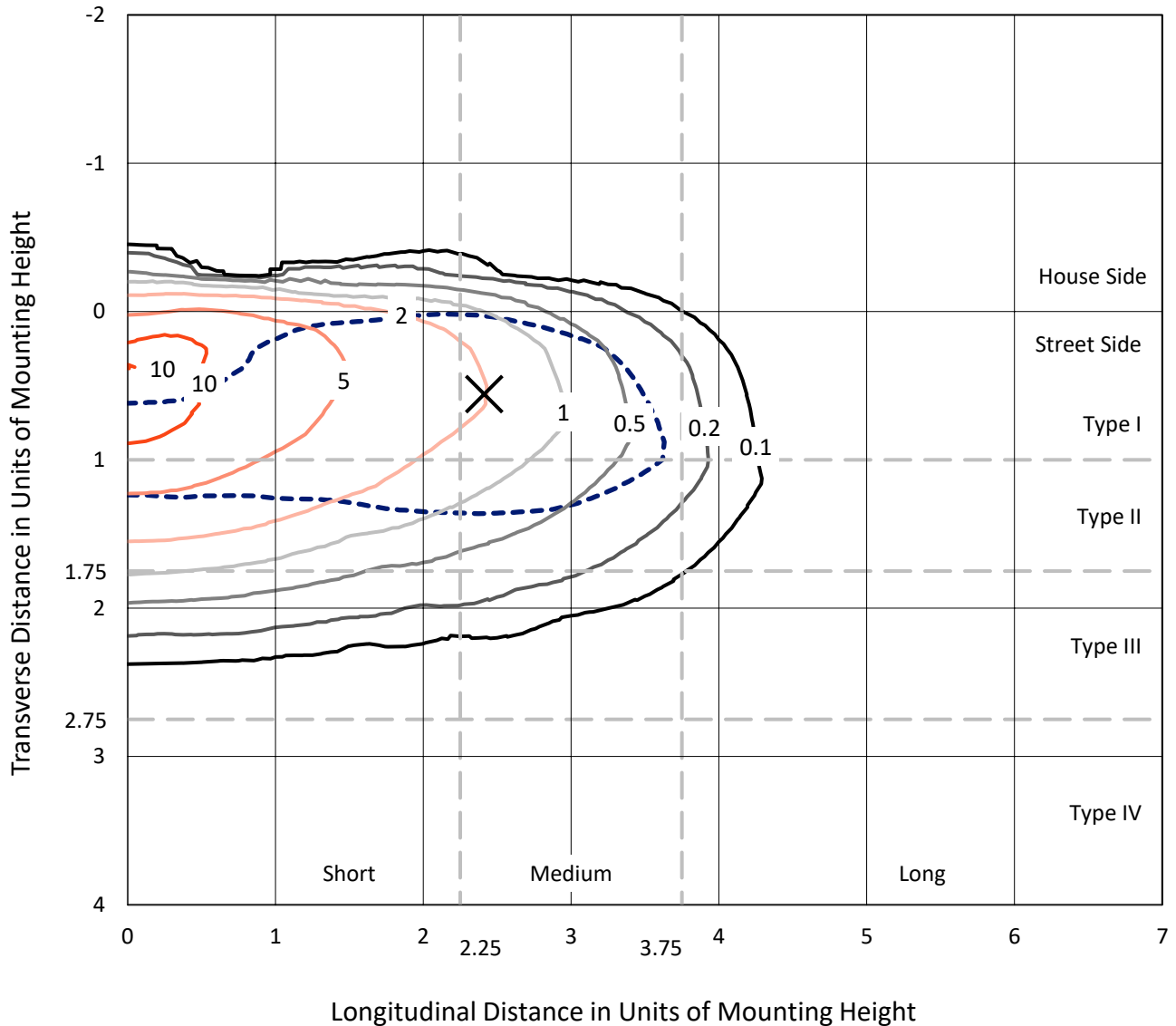
Lumens per Lamp: N/A  
Luminaire Lumens: 38350.5 lumens  
Efficiency: N/A  
Efficacy: 90.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G4

Input Watts (W): 422.6  
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

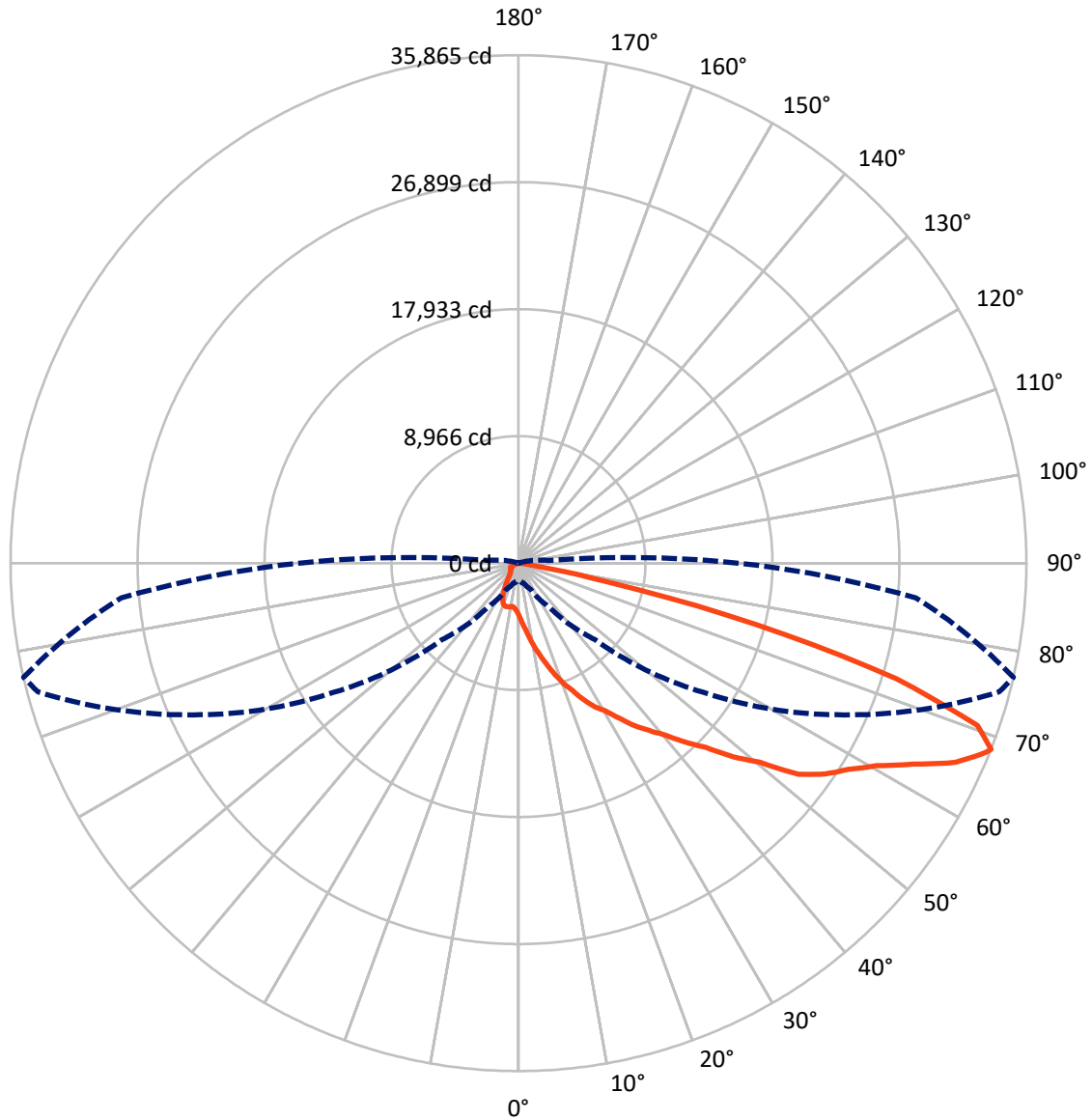
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 12.1 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral      - - - Horizontal Cone Through 68-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1739.2	0.0	1739.2
	% Fixture	4.5	0.0	4.5
<b>Street Side</b>	Lumens	36611.3	0.0	36611.3
	% Fixture	95.5	0.0	95.5
<b>Total</b>	Lumens	38350.5	0.0	38350.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	429.0	1.1
10°-20°	1582.2	4.1
20°-30°	3066.3	8.0
30°-40°	5345.6	13.9
40°-50°	7829.2	20.4
50°-60°	9198.1	24.0
60°-70°	7767.0	20.3
70°-80°	3010.7	7.9
80°-90°	122.4	0.3
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°	38350.5	100.0
0°-180°	38350.5	100.0

**Coefficient of Utilization**

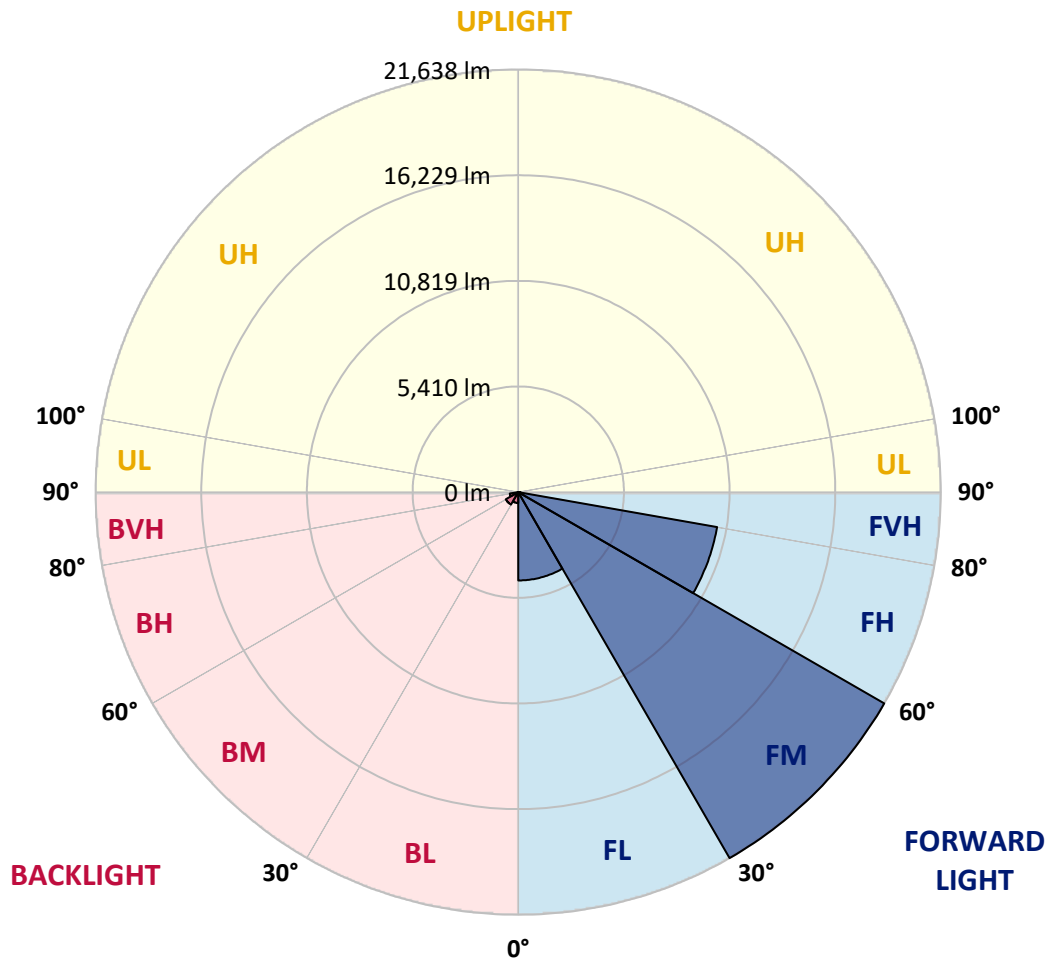


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4521.9	11.8			
FM (30°-60°)	21638.0	56.4			
FH (60°-80°)	10338.5	27.0			G4/12000
FVH (80°-90°)	112.9	0.3			G2/225
BL (0°-30°)	555.7	1.4	B2/1000		
BM (30°-60°)	734.9	1.9	B1/1000		
BH (60°-80°)	439.1	1.1	B1/500		G1/500
BVH (80°-90°)	9.5	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 Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	3672.1	3672.1	3672.1	3672.1	3672.1	3672.1	3672.1	3672.1	3672.1	3672.1	3672.1
2.5°	5579.5	5473.8	5362.9	5331.2	5125.1	4892.6	4676.0	4464.7	4110.7	4115.9	3872.9
5°	7191.0	7058.9	6969.1	6948.0	6625.7	6224.1	5896.5	5299.5	4713.0	4580.9	4137.1
7.5°	8517.2	8474.9	8342.8	8231.9	7994.1	7502.7	7117.0	6261.1	5368.2	5220.2	4459.4
10°	9320.3	9383.7	9441.8	9299.2	9114.2	8760.2	8231.9	7307.2	6113.1	5928.2	4876.8
12.5°	10176.3	10070.6	10107.6	10223.8	9980.8	9901.5	9246.3	8385.1	6984.9	6630.9	5405.1
15°	10398.2	10440.4	10530.3	10868.4	11032.2	10805.0	10239.7	9256.9	7888.4	7397.1	5896.5
17.5°	10546.1	10525.0	10635.9	11143.2	11391.5	11608.1	11254.1	10229.1	8675.7	8237.2	6509.4
20°	10731.0	10614.8	10857.8	11180.1	11756.1	12210.4	12194.6	11206.6	9499.9	9035.0	7117.0
22.5°	11417.9	11328.1	11523.6	11555.3	11956.8	12590.9	12744.1	12004.4	10345.3	9774.7	7772.2
25°	12686.0	12849.8	12617.3	12416.5	12538.0	12955.4	13066.4	12712.4	11196.0	10672.9	8427.4
27.5°	14540.5	14519.4	14059.7	13800.8	13510.2	13457.4	13536.6	13372.8	11867.0	11491.9	8966.3
30°	16532.4	16358.1	15935.4	15311.9	14672.6	14276.3	14165.4	13996.3	12654.3	12110.1	9499.9
32.5°	18117.5	18212.6	17742.4	16928.7	15866.7	15333.1	14799.4	14614.5	13520.8	13040.0	10112.8
35°	19575.8	19449.0	19073.9	18387.0	17435.9	16574.7	15739.9	15343.6	14561.7	14086.1	10789.2
37.5°	20653.7	20812.2	20098.9	19443.7	18498.0	17784.7	16965.7	16099.2	15634.2	15000.2	11613.4
40°	21673.4	21425.1	20944.3	20341.9	19464.9	18920.6	18381.7	17029.1	16775.5	15956.5	12543.3
42.5°	21493.8	21509.6	21245.4	20759.3	20125.3	19813.6	19628.6	18159.8	17811.1	17288.0	13452.1
45°	20759.3	20822.7	20912.6	20674.8	20727.6	20415.9	20912.6	19459.6	19116.1	18561.4	14498.3
47.5°	19950.9	20056.6	20035.5	20468.7	20960.1	21065.8	22307.4	20902.0	20754.1	20447.6	15946.0
50°	18608.9	18651.2	19058.0	19845.3	20516.3	21620.6	23353.6	22476.5	22703.7	22101.4	17668.4
52.5°	16315.8	16469.0	17515.2	18640.6	19993.2	21900.6	24061.6	24817.2	25393.1	24774.9	19322.2
55°	13415.1	13626.5	14656.8	16764.9	18746.3	21477.9	24706.2	26053.5	27221.2	26286.0	20326.1
57.5°	10794.4	10815.6	11740.2	13917.1	16976.3	20648.4	25033.8	26655.9	28225.1	27474.8	21551.9
60°	8226.6	8142.1	8971.6	10857.8	13996.3	18608.9	24214.8	26962.3	29477.3	29044.1	23026.0
62.5°	5294.2	5162.1	6065.6	7904.3	10931.8	15211.5	22576.9	26967.6	31432.3	31268.5	25493.5
65°	2620.7	2530.9	3307.5	4845.1	7566.1	11634.5	20241.5	26867.2	33820.5	33926.1	27897.5
67.5°	1384.3	1416.0	1664.3	2456.9	4364.3	8221.3	16722.7	25689.0	35041.0	35632.7	28478.7
68°	1273.4	1283.9	1479.4	2044.8	3788.4	7624.3	15887.8	25345.5	35136.1	35865.2	28156.4
70°	1035.6	1051.4	1120.1	1283.9	2050.0	4961.3	12258.0	22429.0	33704.2	34369.9	25488.2
72.5°	824.2	871.8	914.1	982.8	1204.7	2604.8	7624.3	17478.2	27844.7	27918.6	19840.0
75°	628.8	665.7	750.3	808.4	940.5	1431.9	3629.8	10657.1	18270.8	17372.5	11687.4
77.5°	486.1	517.8	554.8	634.0	787.3	966.9	1109.6	4522.8	7761.6	6387.9	3302.3
80°	290.6	311.7	433.3	496.7	686.9	655.2	438.5	1257.5	1574.5	1241.7	602.3
82.5°	169.1	184.9	248.3	380.4	480.8	354.0	258.9	391.0	385.7	338.2	200.8
85°	5.3	10.6	137.4	227.2	169.1	95.1	158.5	163.8	137.4	126.8	89.8
87.5°	0.0	5.3	37.0	31.7	37.0	21.1	31.7	42.3	52.8	47.6	37.0
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°	3672.1	3672.1	3672.1	3672.1	3672.1	3672.1	3672.1	3672.1	3672.1	3672.1	3672.1
2.5°	3709.1	3592.9	3334.0	3138.5	2927.1	2800.3	2673.5	2594.3	2552.0	2525.6	2546.7
5°	3804.2	3561.2	3143.8	2773.9	2530.9	2367.1	2203.3	2118.7	2039.5	1997.2	2023.6
7.5°	4015.6	3651.0	2958.8	2557.3	2272.0	2018.3	1812.3	1648.5	1553.4	1468.8	1484.7
10°	4274.4	3703.8	2964.1	2430.5	2018.3	1616.8	1326.2	1120.1	1003.9	929.9	924.6
12.5°	4538.6	3909.9	2985.2	2303.7	1706.6	1215.2	871.8	718.6	649.9	612.9	612.9
15°	4940.2	4094.8	2932.4	2071.2	1294.5	792.5	597.0	544.2	517.8	486.1	491.4
17.5°	5288.9	4390.7	2906.0	1722.5	887.6	570.6	496.7	438.5	412.1	380.4	380.4
20°	5759.1	4575.6	2763.3	1331.5	612.9	475.5	401.6	348.7	306.4	280.0	285.3
22.5°	6187.1	4718.3	2509.7	908.8	470.2	375.1	295.9	243.0	206.1	174.4	179.6
25°	6652.1	4860.9	2139.9	560.1	332.9	232.5	158.5	116.2	79.3	58.1	58.1
27.5°	6984.9	4903.2	1659.1	332.9	200.8	105.7	37.0	5.3	0.0	0.0	0.0
30°	7323.1	4919.1	1146.5	179.6	79.3	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	7708.8	4913.8	718.6	95.1	5.3	0.0	0.0	0.0	0.0	0.0	0.0
35°	8004.7	4823.9	343.4	10.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	8453.8	4691.9	105.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	8966.3	4454.1	21.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	9426.0	4211.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	9949.1	3909.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	10868.4	3783.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	12067.8	3682.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	12807.5	3386.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	13193.2	3080.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	13763.8	2932.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	14609.2	2943.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	15930.1	3090.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	16659.3	2943.0	21.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	16041.1	2356.5	100.4	26.4	5.3	0.0	0.0	0.0	0.0	0.0	0.0
68°	15507.4	2166.3	100.4	26.4	5.3	0.0	0.0	0.0	0.0	0.0	0.0
70°	12818.1	1410.7	95.1	26.4	10.6	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	9336.2	782.0	79.3	21.1	10.6	0.0	0.0	0.0	0.0	0.0	0.0
75°	5431.6	391.0	58.1	21.1	10.6	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	1416.0	195.5	47.6	26.4	15.9	5.3	0.0	0.0	0.0	0.0	0.0
80°	280.0	126.8	42.3	31.7	21.1	10.6	0.0	0.0	0.0	0.0	0.0
82.5°	132.1	89.8	42.3	31.7	26.4	15.9	5.3	0.0	0.0	0.0	0.0
85°	68.7	42.3	42.3	31.7	31.7	21.1	10.6	0.0	0.0	0.0	0.0
87.5°	31.7	15.9	15.9	15.9	15.9	10.6	5.3	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)