

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: P481970

Luminaire Tested: **IFLD-L-SA8B-727-U-T2R-HSS**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P481970  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8B-727-U-T2R-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens with House Side Shield  
Light Source: (128) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

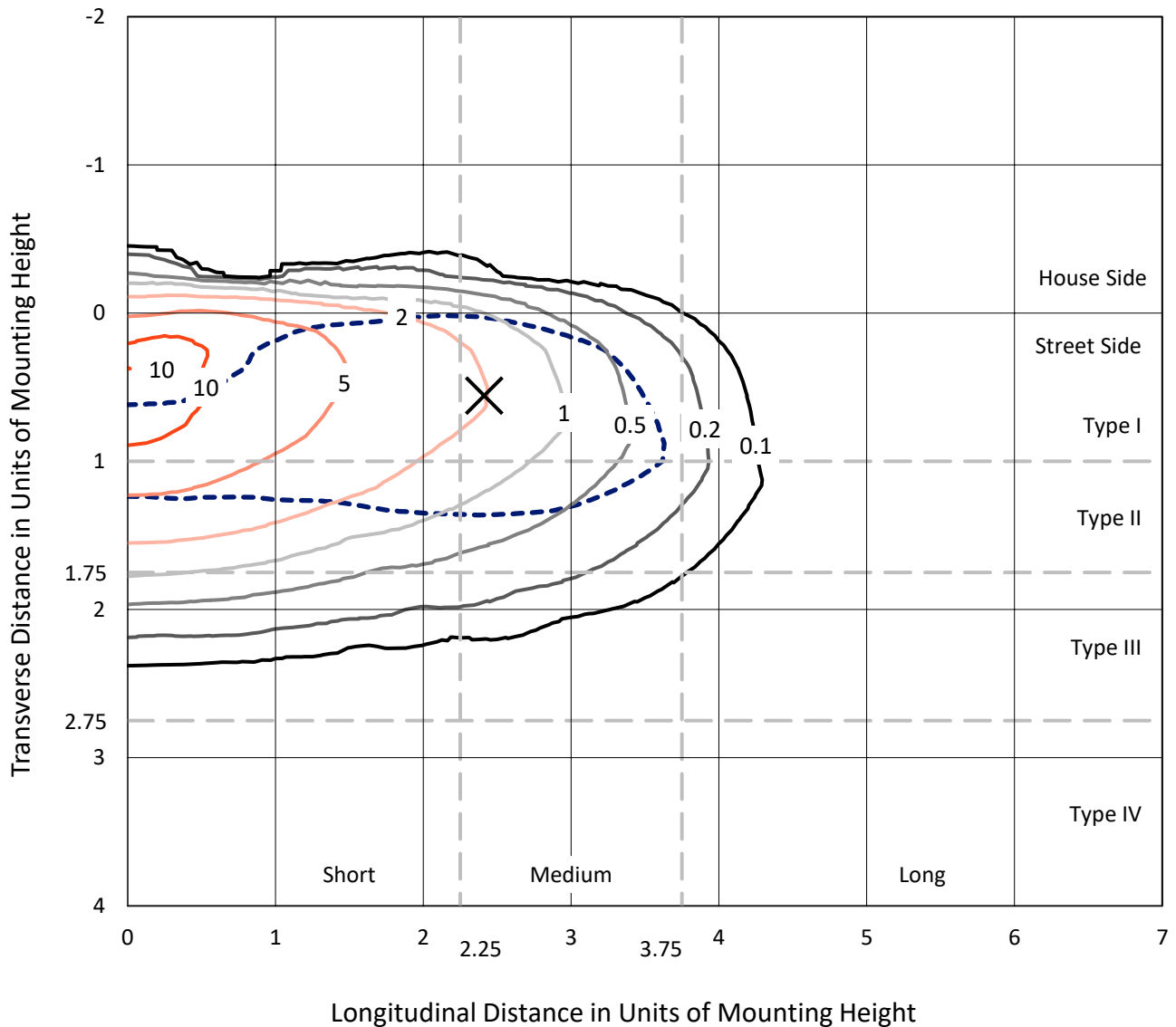
Lumens per Lamp: N/A  
Luminaire Lumens: 26759.6 lumens  
Efficiency: N/A  
Efficacy: 83.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G3

Input Watts (W): 320  
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

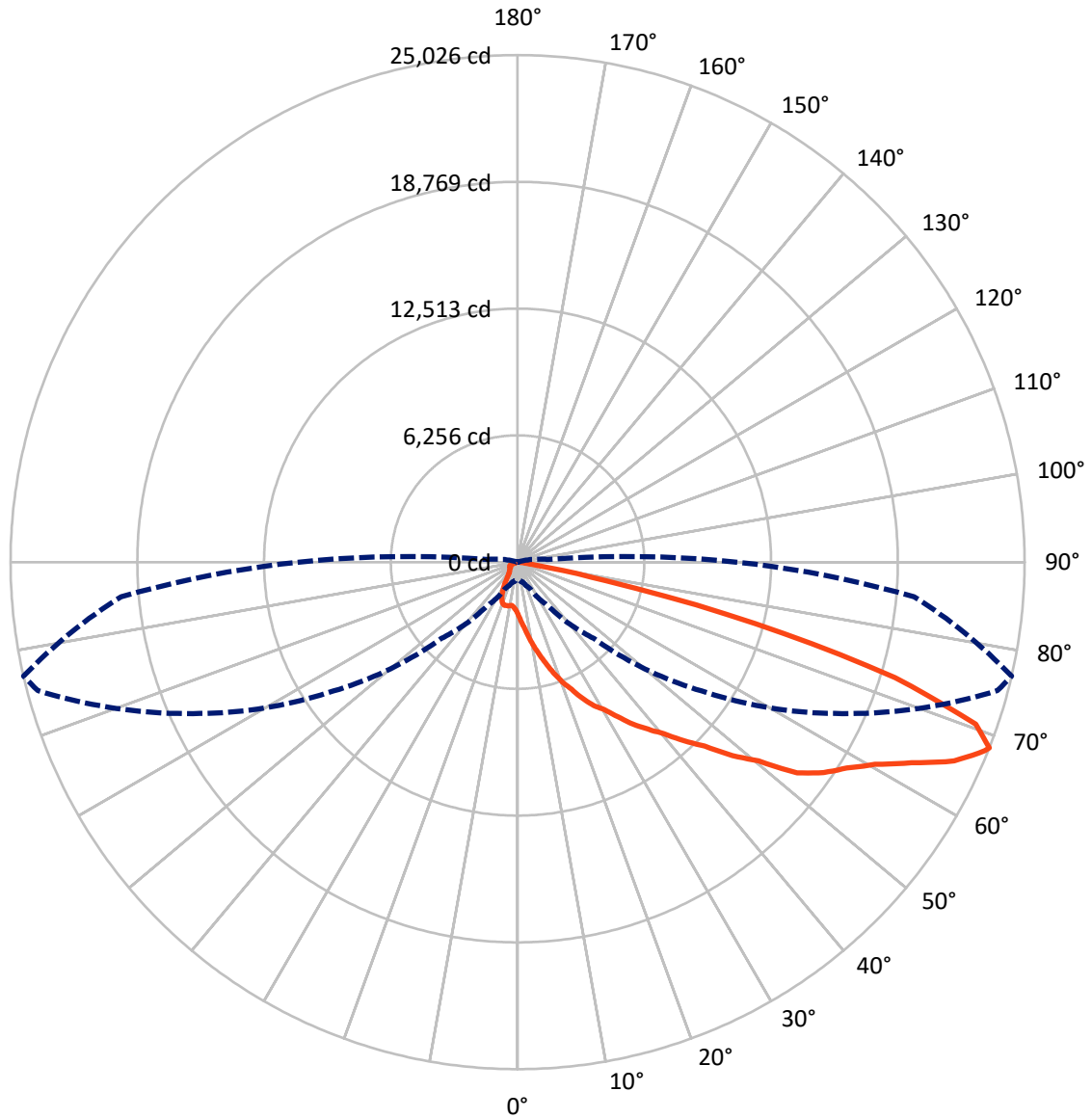
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 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	1213.5	0.0	1213.5
	% Fixture	4.5	0.0	4.5
<b>Street Side</b>	Lumens	25546.1	0.0	25546.1
	% Fixture	95.5	0.0	95.5
<b>Total</b>	Lumens	26759.6	0.0	26759.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	299.3	1.1
10°-20°	1104.0	4.1
20°-30°	2139.6	8.0
30°-40°	3730.0	13.9
40°-50°	5462.9	20.4
50°-60°	6418.1	24.0
60°-70°	5419.5	20.3
70°-80°	2100.7	7.9
80°-90°	85.4	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°	26759.6	100.0
0°-180°	26759.6	100.0

**Coefficient of Utilization**



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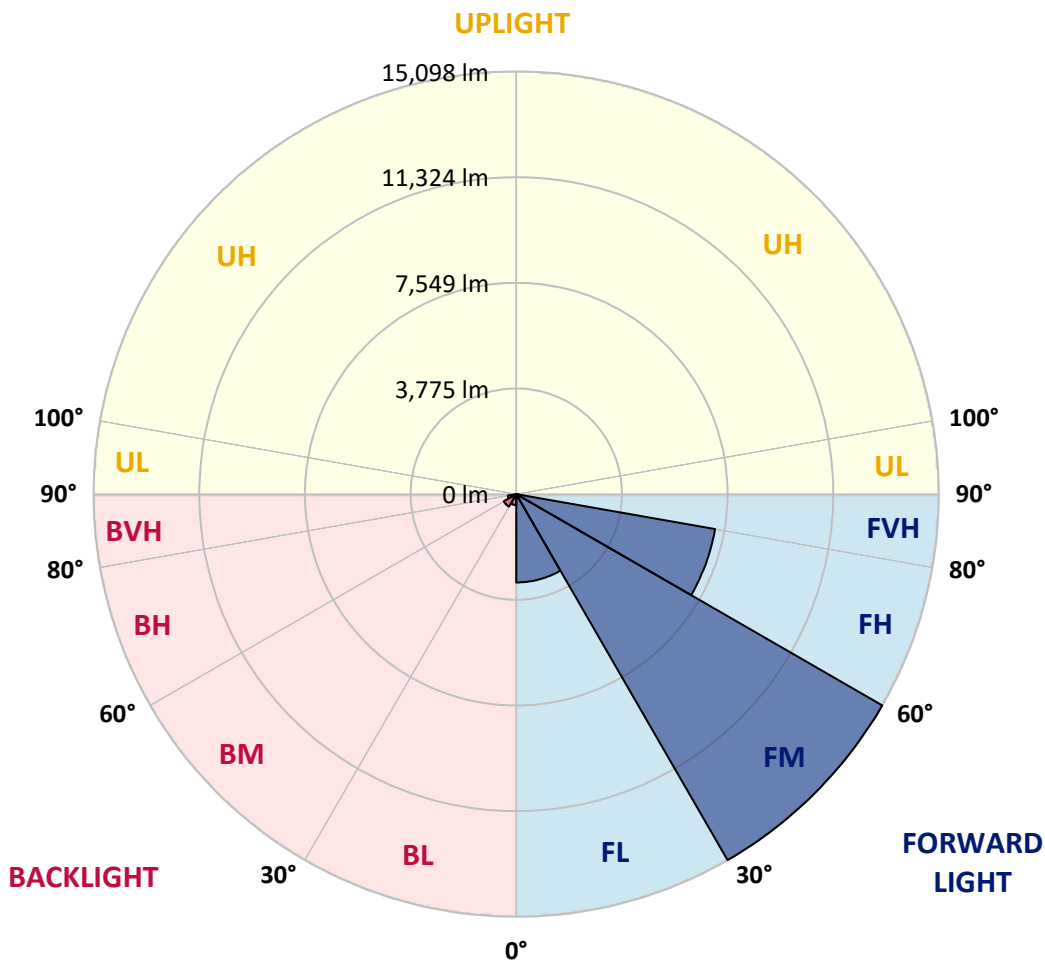
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3155.2	11.8			
FM (30°-60°)	15098.2	56.4			
FH (60°-80°)	7213.8	27.0			G3/7500
FVH (80°-90°)	78.8	0.3			G1/100
BL (0°-30°)	387.7	1.4	B1/500		
BM (30°-60°)	512.8	1.9	B1/1000		
BH (60°-80°)	306.4	1.1	B1/500		G1/500
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: B1-U0-G3**

Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	2562.3	2562.3	2562.3	2562.3	2562.3	2562.3	2562.3	2562.3	2562.3	2562.3	2562.3
2.5°	3893.2	3819.4	3742.0	3719.9	3576.1	3413.9	3262.7	3115.3	2868.3	2872.0	2702.4
5°	5017.6	4925.5	4862.8	4848.0	4623.2	4343.0	4114.4	3697.8	3288.6	3196.4	2886.7
7.5°	5943.0	5913.5	5821.3	5743.9	5578.0	5235.1	4966.0	4368.8	3745.7	3642.5	3111.6
10°	6503.4	6547.6	6588.2	6488.6	6359.6	6112.6	5743.9	5098.7	4265.5	4136.5	3402.8
12.5°	7100.6	7026.9	7052.7	7133.8	6964.2	6908.9	6451.8	5850.8	4873.8	4626.8	3771.5
15°	7255.5	7285.0	7347.6	7583.6	7697.9	7539.3	7144.9	6459.1	5504.3	5161.4	4114.4
17.5°	7358.7	7344.0	7421.4	7775.3	7948.6	8099.7	7852.7	7137.5	6053.6	5747.6	4542.0
20°	7487.7	7406.6	7576.2	7801.1	8203.0	8520.0	8509.0	7819.5	6628.7	6304.3	4966.0
22.5°	7967.0	7904.3	8040.7	8062.9	8343.1	8785.5	8892.4	8376.2	7218.6	6820.4	5423.2
25°	8851.8	8966.1	8803.9	8663.8	8748.6	9039.8	9117.3	8870.3	7812.2	7447.2	5880.3
27.5°	10145.9	10131.1	9810.4	9629.7	9427.0	9390.1	9445.4	9331.1	8280.4	8018.6	6256.4
30°	11535.8	11414.1	11119.2	10684.1	10238.0	9961.5	9884.1	9766.1	8829.7	8450.0	6628.7
32.5°	12641.8	12708.1	12380.0	11812.3	11071.2	10698.9	10326.5	10197.5	9434.3	9098.8	7056.4
35°	13659.3	13570.8	13309.1	12829.8	12166.2	11565.2	10982.7	10706.2	10160.6	9828.8	7528.3
37.5°	14411.4	14522.0	14024.3	13567.1	12907.2	12409.5	11838.1	11233.4	10909.0	10466.6	8103.4
40°	15122.9	14949.7	14614.2	14193.9	13581.9	13202.2	12826.1	11882.3	11705.3	11133.9	8752.3
42.5°	14997.6	15008.6	14824.3	14485.1	14042.7	13825.2	13696.2	12671.3	12427.9	12063.0	9386.4
45°	14485.1	14529.4	14592.0	14426.1	14463.0	14245.5	14592.0	13578.2	13338.6	12951.5	10116.4
47.5°	13921.1	13994.8	13980.1	14282.4	14625.2	14699.0	15565.3	14584.7	14481.4	14267.6	11126.5
50°	12984.6	13014.1	13298.0	13847.3	14315.5	15086.1	16295.3	15683.3	15841.8	15421.6	12328.4
52.5°	11384.6	11491.5	12221.5	13006.8	13950.6	15281.5	16789.3	17316.5	17718.4	17287.0	13482.3
55°	9360.6	9508.1	10227.0	11698.0	13080.5	14986.5	17239.1	18179.2	18994.0	18341.4	14182.8
57.5°	7532.0	7546.7	8191.9	9710.8	11845.4	14407.7	17467.7	18599.5	19694.5	19171.0	15038.1
60°	5740.2	5681.2	6260.1	7576.2	9766.1	12984.6	16896.3	18813.3	20568.2	20265.9	16066.7
62.5°	3694.1	3601.9	4232.4	5515.3	7627.8	10614.1	15753.4	18817.0	21932.3	21818.0	17788.4
65°	1828.6	1765.9	2307.9	3380.7	5279.4	8118.2	14123.8	18747.0	23598.7	23672.4	19465.9
67.5°	965.9	988.0	1161.3	1714.3	3045.2	5736.5	11668.5	17924.8	24450.3	24863.3	19871.4
68°	888.5	895.9	1032.3	1426.8	2643.4	5319.9	11086.0	17685.2	24516.7	25025.5	19646.5
70°	722.6	733.7	781.6	895.9	1430.4	3461.8	8553.2	15650.1	23517.6	23982.1	17784.8
72.5°	575.1	608.3	637.8	685.7	840.6	1817.6	5319.9	12195.7	19429.0	19480.6	13843.6
75°	438.7	464.5	523.5	564.1	656.2	999.1	2532.8	7436.1	12748.7	12121.9	8155.0
77.5°	339.2	361.3	387.1	442.4	549.3	674.7	774.2	3155.8	5415.8	4457.2	2304.2
80°	202.8	217.5	302.3	346.6	479.3	457.2	306.0	877.4	1098.6	866.4	420.3
82.5°	118.0	129.0	173.3	265.4	335.5	247.0	180.6	272.8	269.1	236.0	140.1
85°	3.7	7.4	95.9	158.5	118.0	66.4	110.6	114.3	95.9	88.5	62.7
87.5°	0.0	3.7	25.8	22.1	25.8	14.7	22.1	29.5	36.9	33.2	25.8
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°	2562.3	2562.3	2562.3	2562.3	2562.3	2562.3	2562.3	2562.3	2562.3	2562.3	2562.3
2.5°	2588.1	2507.0	2326.3	2189.9	2042.4	1954.0	1865.5	1810.2	1780.7	1762.3	1777.0
5°	2654.4	2484.9	2193.6	1935.5	1765.9	1651.7	1537.4	1478.4	1423.1	1393.6	1412.0
7.5°	2801.9	2547.5	2064.6	1784.4	1585.3	1408.3	1264.5	1150.3	1083.9	1024.9	1036.0
10°	2982.6	2584.4	2068.3	1695.9	1408.3	1128.1	925.4	781.6	700.5	648.9	645.2
12.5°	3166.9	2728.2	2083.0	1607.4	1190.8	847.9	608.3	501.4	453.5	427.7	427.7
15°	3447.1	2857.2	2046.1	1445.2	903.2	553.0	416.6	379.7	361.3	339.2	342.9
17.5°	3690.4	3063.7	2027.7	1201.9	619.4	398.2	346.6	306.0	287.6	265.4	265.4
20°	4018.5	3192.7	1928.2	929.1	427.7	331.8	280.2	243.3	213.8	195.4	199.1
22.5°	4317.2	3292.2	1751.2	634.1	328.1	261.8	206.5	169.6	143.8	121.7	125.3
25°	4641.6	3391.8	1493.1	390.8	232.3	162.2	110.6	81.1	55.3	40.6	40.6
27.5°	4873.8	3421.3	1157.6	232.3	140.1	73.7	25.8	3.7	0.0	0.0	0.0
30°	5109.8	3432.3	800.0	125.3	55.3	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	5378.9	3428.7	501.4	66.4	3.7	0.0	0.0	0.0	0.0	0.0	0.0
35°	5585.4	3366.0	239.6	7.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	5898.8	3273.8	73.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	6256.4	3107.9	14.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	6577.1	2938.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	6942.1	2728.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	7583.6	2639.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	8420.5	2569.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	8936.6	2363.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	9205.7	2149.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	9603.9	2046.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	10193.8	2053.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	11115.5	2156.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	11624.2	2053.5	14.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	11192.9	1644.3	70.0	18.4	3.7	0.0	0.0	0.0	0.0	0.0	0.0
68°	10820.5	1511.6	70.0	18.4	3.7	0.0	0.0	0.0	0.0	0.0	0.0
70°	8944.0	984.4	66.4	18.4	7.4	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	6514.4	545.6	55.3	14.7	7.4	0.0	0.0	0.0	0.0	0.0	0.0
75°	3790.0	272.8	40.6	14.7	7.4	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	988.0	136.4	33.2	18.4	11.1	3.7	0.0	0.0	0.0	0.0	0.0
80°	195.4	88.5	29.5	22.1	14.7	7.4	0.0	0.0	0.0	0.0	0.0
82.5°	92.2	62.7	29.5	22.1	18.4	11.1	3.7	0.0	0.0	0.0	0.0
85°	47.9	29.5	29.5	22.1	22.1	14.7	7.4	0.0	0.0	0.0	0.0
87.5°	22.1	11.1	11.1	11.1	11.1	7.4	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)