

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: P481579

Luminaire Tested: **IFLD-L-SA8A-727-U-T2-HSS**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P481579  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8A-727-U-T2-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens with House Side Shield  
Light Source: (128) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

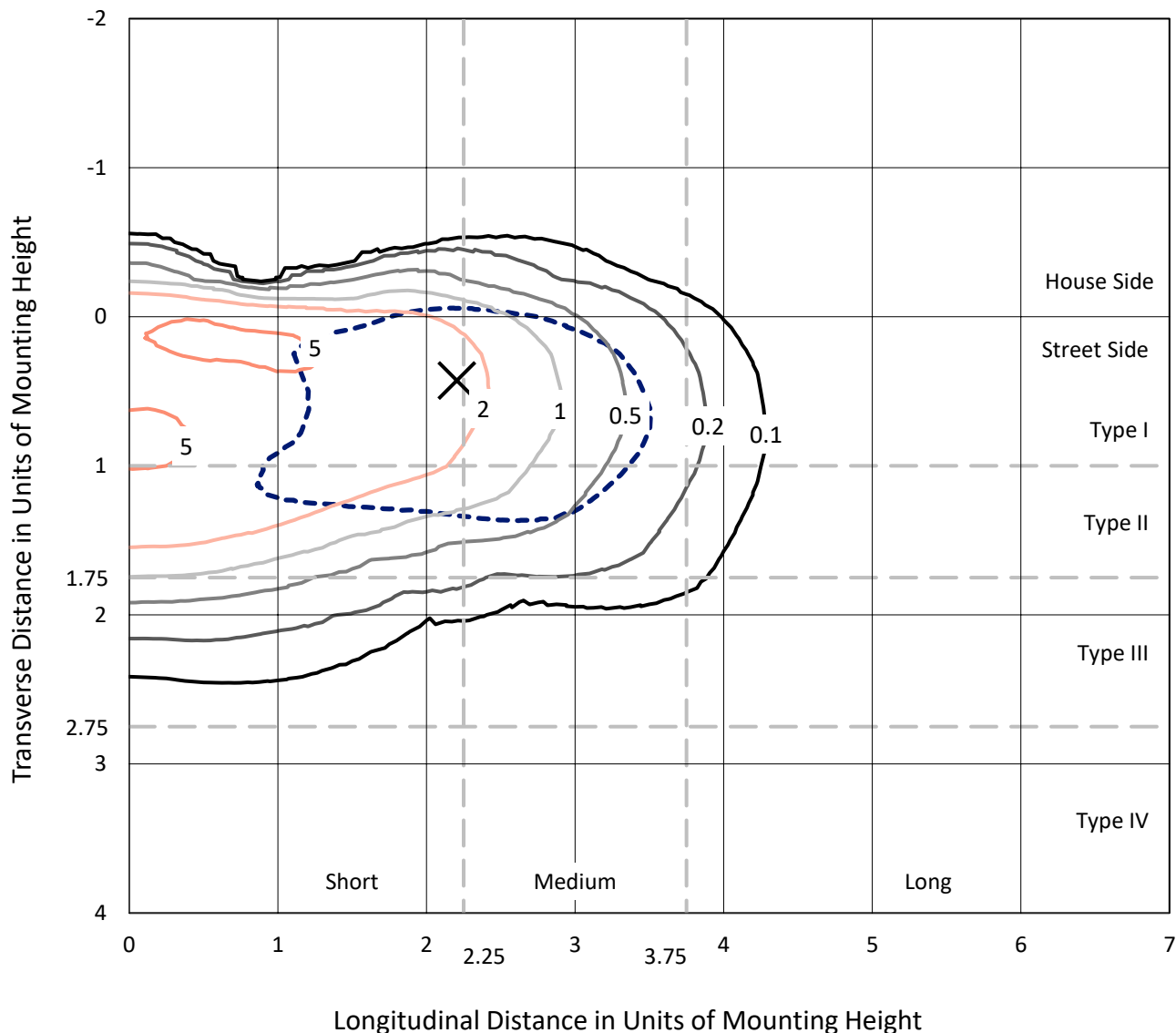
Lumens per Lamp: N/A  
Luminaire Lumens: 20630.9 lumens  
Efficiency: N/A  
Efficacy: 83.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G3

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

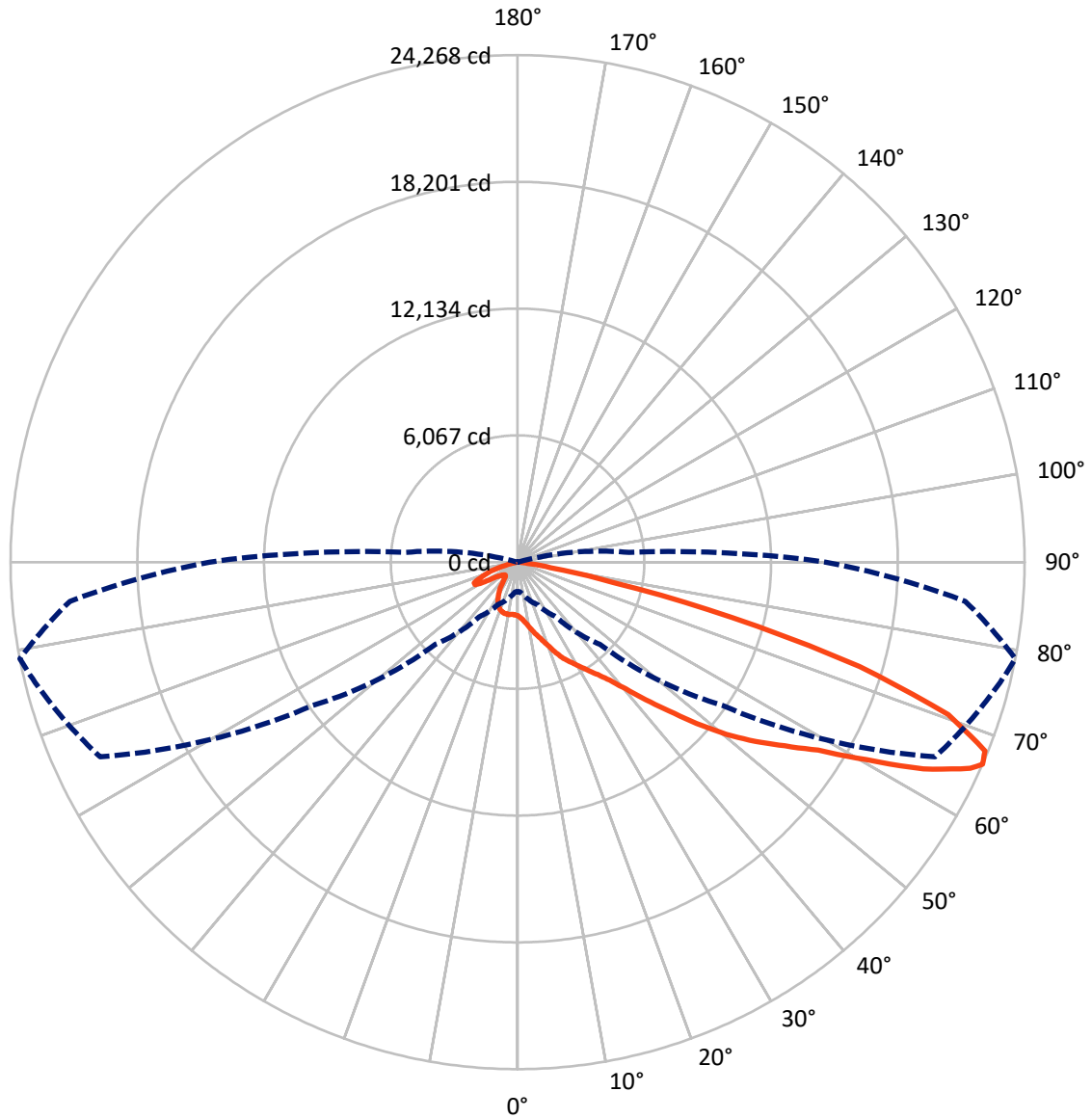
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 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	1549.1	0.0	1549.1
	% Fixture	7.5	0.0	7.5
<b>Street Side</b>	Lumens	19081.8	0.0	19081.8
	% Fixture	92.5	0.0	92.5
<b>Total</b>	Lumens	20630.9	0.0	20630.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	242.7	1.2
10°-20°	668.1	3.2
20°-30°	1109.8	5.4
30°-40°	1906.2	9.2
40°-50°	3453.4	16.7
50°-60°	5458.8	26.5
60°-70°	5554.7	26.9
70°-80°	2118.3	10.3
80°-90°	118.8	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°	20630.9	100.0
0°-180°	20630.9	100.0

**Coefficient of Utilization**



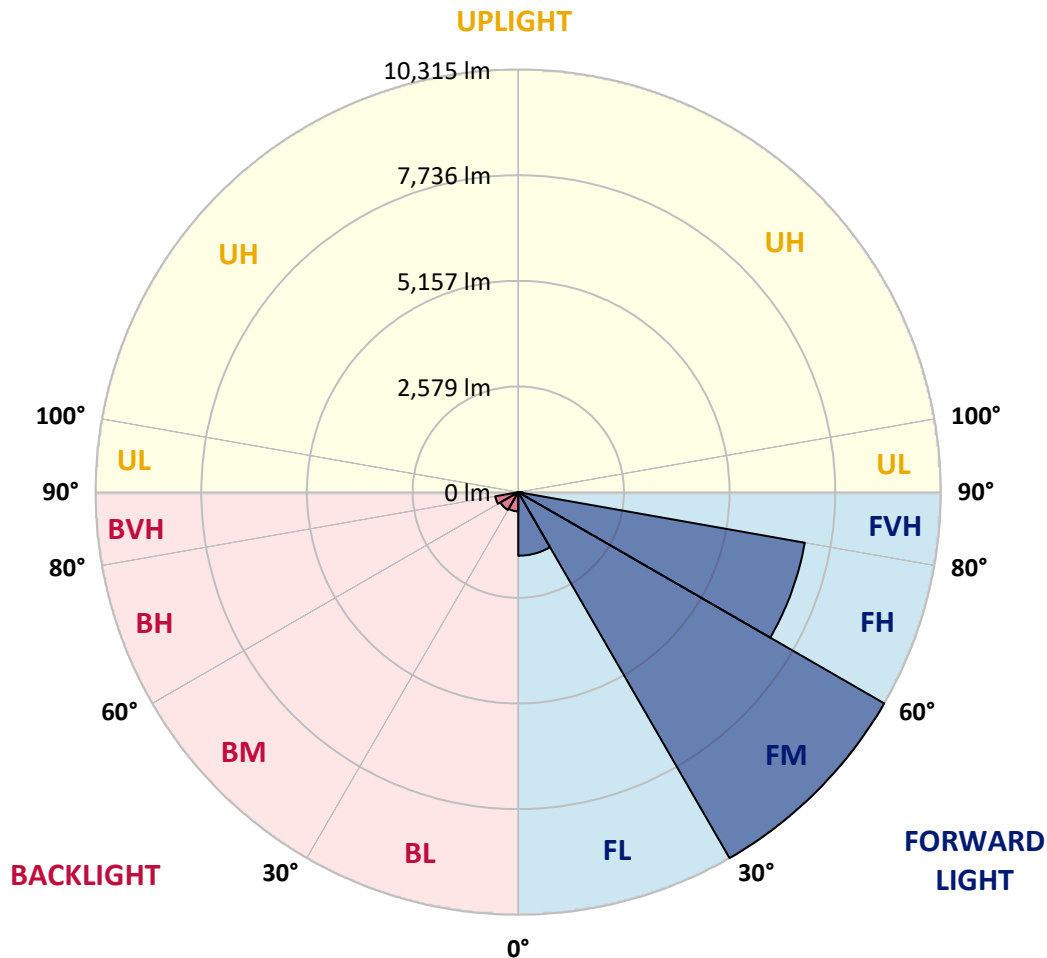
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1552.1	7.5			
FM (30°-60°)	10315.0	50.0			
FH (60°-80°)	7102.0	34.4			G3/7500
FVH (80°-90°)	112.7	0.5			G2/225
BL (0°-30°)	468.5	2.3	B1/500		
BM (30°-60°)	503.5	2.4	B1/1000		
BH (60°-80°)	571.1	2.8	B2/1000		G2/1000
BVH (80°-90°)	6.1	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-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	2566.7	2566.7	2566.7	2566.7	2566.7	2566.7	2566.7	2566.7	2566.7	2566.7	2566.7
2.5°	2907.1	2903.9	2891.1	2868.9	2840.3	2830.7	2789.4	2732.1	2700.3	2665.3	2649.4
5°	3107.4	3091.5	3129.7	3113.8	3120.1	3043.8	2992.9	2951.6	2830.7	2783.0	2706.7
7.5°	3152.0	3167.9	3164.7	3190.1	3215.6	3244.2	3209.2	3148.8	3027.9	2957.9	2875.2
10°	3152.0	3145.6	3171.0	3206.0	3279.2	3342.8	3438.2	3358.7	3266.5	3183.8	3034.3
12.5°	3094.7	3085.2	3110.6	3183.8	3314.2	3444.6	3549.5	3625.9	3495.5	3428.7	3234.7
15°	2919.8	2910.2	3015.2	3145.6	3317.3	3530.4	3749.9	3873.9	3784.9	3679.9	3463.7
17.5°	2703.5	2716.2	2827.5	3043.8	3317.3	3571.8	3851.7	4122.0	4109.3	3975.7	3749.9
20°	2630.3	2639.9	2751.2	2907.1	3218.7	3600.4	4010.7	4392.4	4468.7	4309.7	4013.9
22.5°	2770.3	2760.7	2770.3	2865.7	3152.0	3575.0	4115.7	4700.9	4837.7	4713.6	4360.6
25°	3247.4	3241.0	3161.5	3015.2	3113.8	3517.7	4169.7	4904.5	5219.3	5104.8	4640.5
27.5°	3947.1	3921.7	3797.6	3492.3	3291.9	3552.7	4258.8	5101.7	5553.3	5422.9	4891.7
30°	4697.7	4637.3	4475.1	4093.4	3753.1	3683.1	4309.7	5248.0	5925.4	5760.0	5111.2
32.5°	5216.2	5295.7	5244.8	4856.7	4335.1	3985.3	4392.4	5432.4	6268.9	6160.8	5486.5
35°	6017.7	6109.9	5896.8	5553.3	5028.5	4465.5	4567.3	5581.9	6796.9	6615.6	5836.4
37.5°	7029.1	7099.1	6946.4	6294.4	5740.9	5057.1	4926.7	5893.6	7251.7	7165.8	6284.8
40°	7538.0	7875.1	7658.8	7070.4	6475.7	5884.1	5521.5	6259.4	8043.7	7973.7	6905.0
42.5°	8240.9	8409.5	8298.1	7862.4	7242.2	6768.3	6256.2	6971.8	9004.2	9004.2	7744.7
45°	8985.1	8991.5	8985.1	8628.9	8078.7	7833.8	7248.5	7865.6	10037.9	10152.4	8749.8
47.5°	9595.8	9786.6	9770.7	9557.6	9131.4	9039.2	8240.9	8883.4	11335.6	11536.0	9729.4
50°	9910.7	10123.8	10187.4	10298.7	10279.6	10473.7	9325.5	10063.4	12455.2	12948.1	10988.9
52.5°	9824.8	9840.7	10231.9	10670.8	11370.6	11914.5	10632.7	11402.4	13765.6	14252.2	11962.2
55°	9121.9	9061.5	9866.2	10368.7	11815.9	12795.5	12442.4	13072.2	14786.5	15527.6	12967.2
57.5°	7579.3	7595.2	8339.5	9360.4	11485.1	13145.3	14376.2	15254.1	16217.8	16965.2	14379.4
60°	5232.1	5213.0	6046.3	7226.3	9541.7	12493.3	15489.4	18081.6	18132.5	19191.6	16914.3
62.5°	2942.0	2948.4	3581.3	4589.6	6676.0	10209.7	15435.4	21084.1	20867.8	21796.5	19795.9
65°	1666.6	1708.0	2143.7	2719.4	3998.0	6854.2	13275.7	22280.0	22976.5	23803.5	21545.3
66°	1409.0	1437.6	1809.8	2245.5	3190.1	5559.7	11949.4	22047.8	23638.1	24267.8	21510.3
67.5°	1090.9	1129.1	1440.8	1781.1	2340.9	3848.5	9618.1	20893.2	23758.9	24127.9	20902.8
70°	747.4	772.9	1011.4	1351.7	1599.8	1968.8	5750.5	17273.7	21558.0	21869.7	18167.5
72.5°	524.8	537.5	709.3	1024.1	1230.9	1125.9	2853.0	12289.8	16497.7	17105.2	14131.3
75°	378.5	391.2	486.6	734.7	960.5	737.9	1307.2	7849.7	10117.4	10594.5	8511.2
77.5°	273.5	289.4	330.8	473.9	696.5	518.4	642.5	4099.8	4770.9	4688.2	3660.8
80°	165.4	181.3	244.9	305.3	508.9	365.8	353.0	1711.2	1692.1	1606.2	1151.4
82.5°	76.3	89.1	130.4	206.7	356.2	254.4	168.6	610.7	534.3	489.8	324.4
85°	22.3	28.6	76.3	155.8	181.3	124.0	101.8	209.9	219.5	187.7	108.1
87.5°	0.0	3.2	35.0	38.2	54.1	41.3	38.2	54.1	101.8	82.7	35.0
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°	2566.7	2566.7	2566.7	2566.7	2566.7	2566.7	2566.7	2566.7	2566.7	2566.7	2566.7
2.5°	2592.2	2569.9	2515.8	2433.1	2360.0	2321.8	2267.8	2220.0	2194.6	2191.4	2188.2
5°	2655.8	2595.4	2464.9	2315.5	2204.1	2083.3	2000.6	1940.2	1882.9	1828.8	1860.6
7.5°	2741.7	2646.2	2433.1	2239.1	1997.4	1841.6	1695.2	1609.4	1558.5	1510.8	1504.4
10°	2875.2	2754.4	2410.9	2061.0	1784.3	1555.3	1405.8	1281.8	1211.8	1129.1	1160.9
12.5°	3056.5	2840.3	2328.2	1898.8	1542.6	1300.9	1087.8	887.4	776.1	690.2	693.4
15°	3237.8	2954.8	2251.9	1701.6	1323.1	1005.1	693.4	556.6	524.8	505.7	512.1
17.5°	3415.9	3047.0	2134.2	1501.2	1071.9	639.3	505.7	477.1	461.2	442.1	442.1
20°	3632.2	3107.4	1987.9	1316.8	737.9	473.9	432.6	413.5	388.0	362.6	365.8
22.5°	3842.1	3158.3	1819.3	1081.4	496.2	410.3	362.6	337.1	314.9	289.4	289.4
25°	4052.1	3174.2	1599.8	776.1	400.8	327.6	283.1	248.1	225.8	203.6	206.7
27.5°	4195.2	3075.6	1393.1	496.2	321.2	248.1	197.2	168.6	149.5	127.2	127.2
30°	4277.9	2894.3	1170.5	349.9	241.7	168.6	117.7	89.1	70.0	54.1	50.9
32.5°	4360.6	2748.0	919.2	267.2	159.0	89.1	44.5	15.9	0.0	0.0	0.0
35°	4526.0	2582.6	617.0	149.5	54.1	3.2	0.0	0.0	0.0	0.0	0.0
37.5°	4630.9	2353.6	283.1	22.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	4894.9	2239.1	70.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	5324.3	2159.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	5795.0	2127.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	6421.6	2213.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	7083.2	2445.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	7808.3	2665.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	8441.3	2929.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	9605.4	3552.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	11695.0	4777.2	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	14048.6	5686.9	35.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	14910.6	5664.6	60.4	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	14757.9	5352.9	60.4	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	13965.9	4755.0	54.1	6.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	11994.0	3928.0	54.1	9.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	9144.2	3059.7	50.9	12.7	3.2	0.0	0.0	0.0	0.0	0.0	0.0
75°	5518.3	1628.5	41.3	15.9	6.4	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	2197.8	572.5	31.8	12.7	6.4	0.0	0.0	0.0	0.0	0.0	0.0
80°	594.8	171.8	19.1	12.7	9.5	3.2	0.0	0.0	0.0	0.0	0.0
82.5°	155.8	63.6	15.9	12.7	6.4	3.2	0.0	0.0	0.0	0.0	0.0
85°	60.4	25.4	12.7	9.5	9.5	6.4	3.2	0.0	0.0	0.0	0.0
87.5°	19.1	9.5	9.5	6.4	6.4	3.2	3.2	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)