

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: P481810

Luminaire Tested: **IFLD-L-SA7C-827-U-T2-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481810
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7C-827-U-T2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens with House Side Shield
Light Source: (112) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

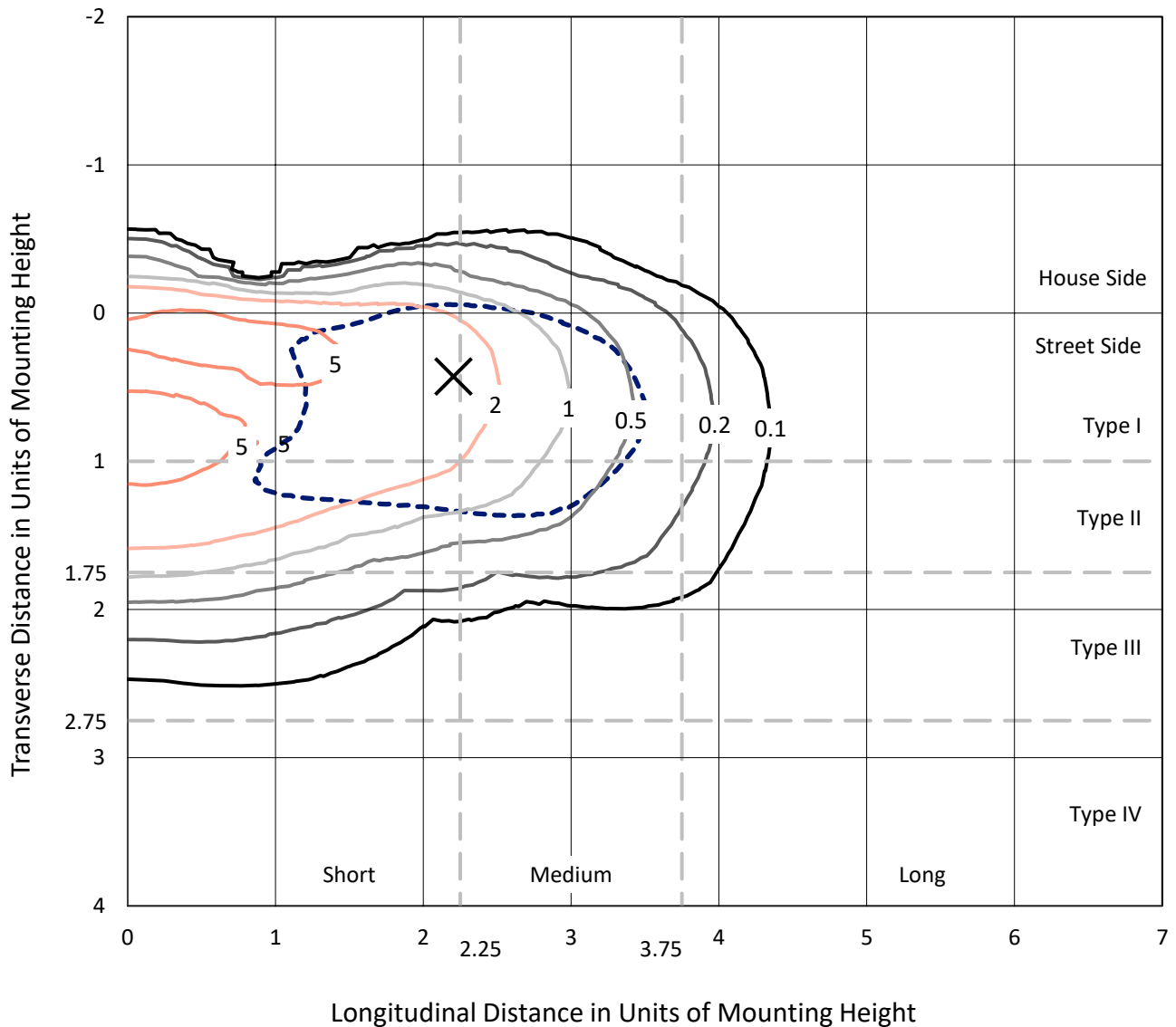
Lumens per Lamp: N/A
Luminaire Lumens: 23467.6 lumens
Efficiency: N/A
Efficacy: 63.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G4

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

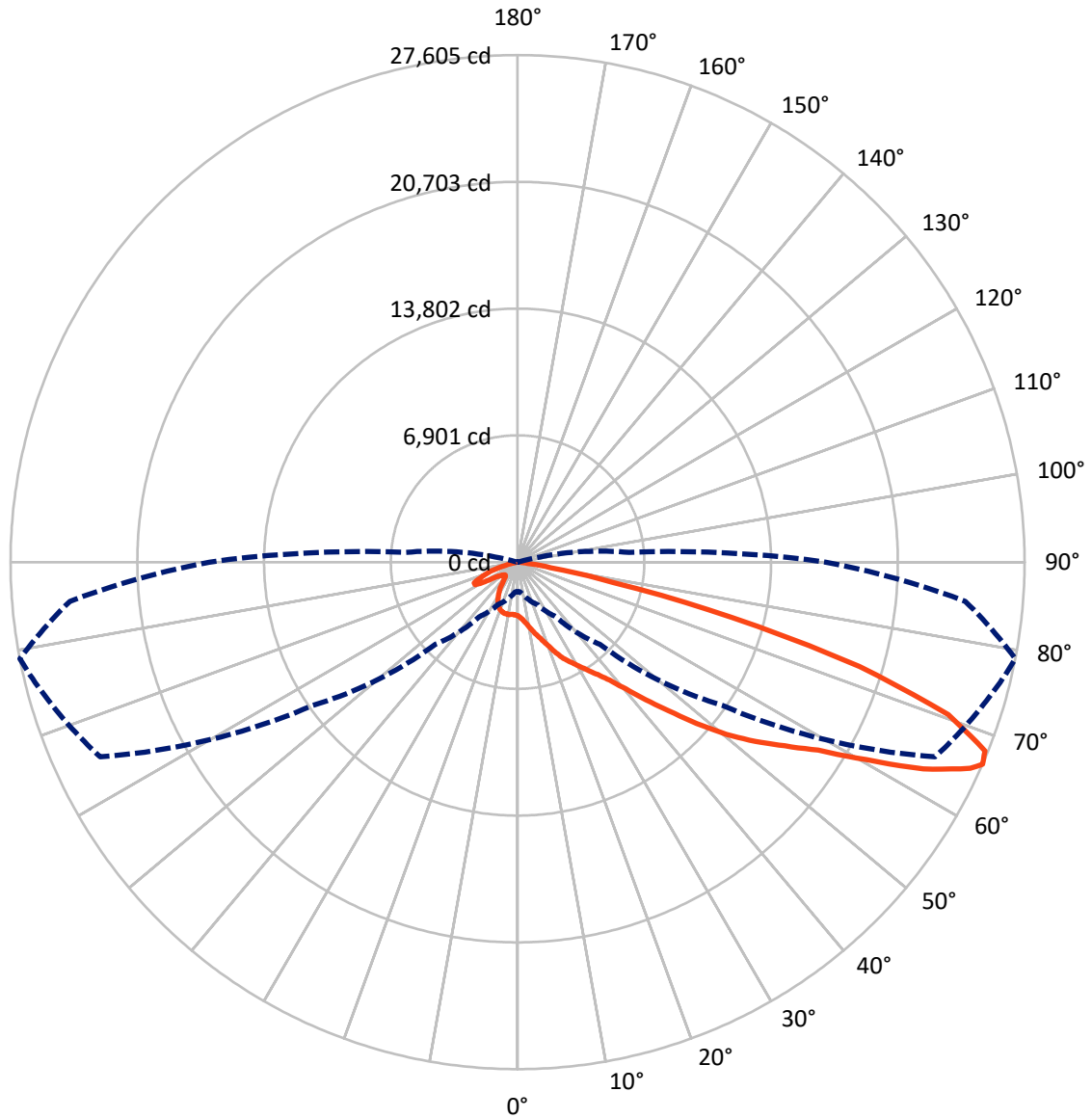
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 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
House Side	Lumens	1762.1	0.0	1762.1
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	21705.5	0.0	21705.5
	% Fixture	92.5	0.0	92.5
Total	Lumens	23467.6	0.0	23467.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	276.1	1.2
10°-20°	759.9	3.2
20°-30°	1262.4	5.4
30°-40°	2168.3	9.2
40°-50°	3928.2	16.7
50°-60°	6209.4	26.5
60°-70°	6318.5	26.9
70°-80°	2409.6	10.3
80°-90°	135.1	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°	23467.6	100.0
0°-180°	23467.6	100.0

Coefficient of Utilization

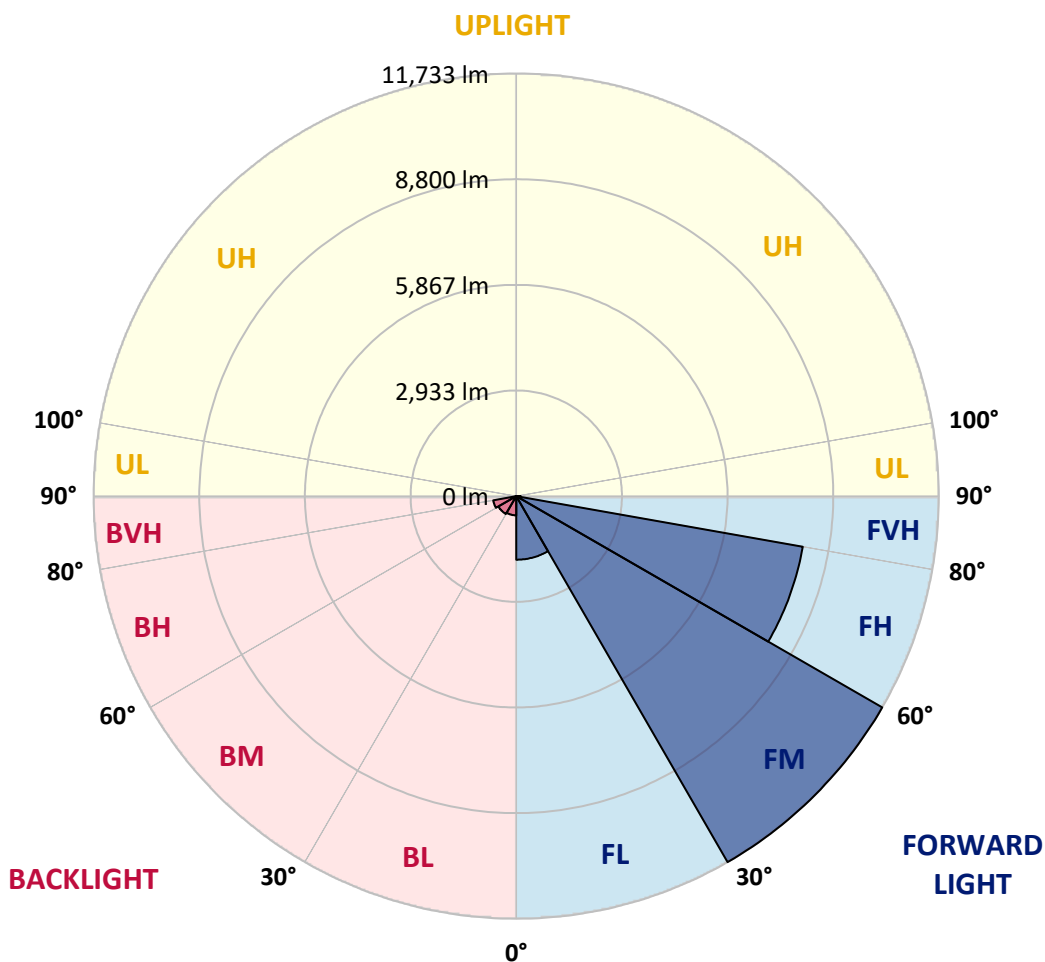


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1765.5	7.5			
FM (30°-60°)	11733.3	50.0			
FH (60°-80°)	8078.5	34.4			G4/12000
FVH (80°-90°)	128.2	0.5			G2/225
BL (0°-30°)	532.9	2.3	B2/1000		
BM (30°-60°)	572.7	2.4	B1/1000		
BH (60°-80°)	649.6	2.8	B2/1000		G2/1000
BVH (80°-90°)	6.9	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°	2919.6	2919.6	2919.6	2919.6	2919.6	2919.6	2919.6	2919.6	2919.6	2919.6	2919.6
2.5°	3306.8	3303.1	3288.7	3263.4	3230.8	3219.9	3172.9	3107.8	3071.6	3031.8	3013.7
5°	3534.7	3516.6	3560.0	3541.9	3549.2	3462.3	3404.4	3357.4	3219.9	3165.7	3078.8
7.5°	3585.3	3603.4	3599.8	3628.8	3657.7	3690.3	3650.5	3581.7	3444.2	3364.7	3270.6
10°	3585.3	3578.1	3607.1	3646.8	3730.1	3802.4	3911.0	3820.5	3715.6	3621.5	3451.5
12.5°	3520.2	3509.4	3538.3	3621.5	3769.9	3918.2	4037.6	4124.4	3976.1	3900.1	3679.4
15°	3321.2	3310.4	3429.8	3578.1	3773.5	4015.9	4265.5	4406.6	4305.3	4185.9	3939.9
17.5°	3075.2	3089.7	3216.3	3462.3	3773.5	4062.9	4381.3	4688.8	4674.3	4522.4	4265.5
20°	2992.0	3002.9	3129.5	3306.8	3661.3	4095.5	4562.2	4996.3	5083.2	4902.3	4565.8
22.5°	3151.2	3140.3	3151.2	3259.7	3585.3	4066.5	4681.6	5347.3	5502.8	5361.7	4960.1
25°	3693.9	3686.6	3596.2	3429.8	3541.9	4001.4	4743.1	5578.8	5937.0	5806.7	5278.5
27.5°	4489.8	4460.9	4319.8	3972.5	3744.5	4041.2	4844.4	5803.1	6316.9	6168.5	5564.3
30°	5343.6	5274.9	5090.4	4656.2	4269.1	4189.5	4902.3	5969.5	6740.2	6552.0	5814.0
32.5°	5933.4	6023.8	5965.9	5524.5	4931.2	4533.2	4996.3	6179.4	7130.9	7007.9	6240.9
35°	6845.1	6950.0	6707.6	6316.9	5719.9	5079.5	5195.3	6349.4	7731.5	7525.2	6638.9
37.5°	7995.6	8075.2	7901.5	7159.8	6530.3	5752.5	5604.1	6704.0	8248.8	8151.1	7149.0
40°	8574.4	8957.9	8711.9	8042.6	7366.1	6693.1	6280.7	7120.0	9149.7	9070.1	7854.5
42.5°	9374.0	9565.7	9439.1	8943.5	8238.0	7698.9	7116.4	7930.4	10242.3	10242.3	8809.6
45°	10220.6	10227.8	10220.6	9815.4	9189.5	8910.9	8245.2	8947.1	11418.1	11548.4	9952.9
47.5°	10915.2	11132.3	11114.2	10871.8	10387.0	10282.1	9374.0	10104.8	12894.2	13122.1	11067.2
50°	11273.4	11515.8	11588.1	11714.8	11693.1	11913.8	10607.7	11447.1	14167.7	14728.5	12499.9
52.5°	11175.7	11193.8	11638.8	12138.1	12934.0	13552.7	12094.7	12970.2	15658.3	16211.8	13606.9
55°	10376.2	10307.4	11222.7	11794.4	13440.5	14554.8	14153.2	14869.6	16819.6	17662.6	14750.2
57.5°	8621.5	8639.6	9486.1	10647.5	13064.3	14952.8	16352.9	17351.5	18447.7	19297.9	16356.5
60°	5951.5	5929.7	6877.6	8219.9	10853.7	14211.1	17619.2	20567.8	20625.7	21830.4	19240.0
62.5°	3346.6	3353.8	4073.8	5220.6	7594.0	11613.5	17557.7	23983.1	23737.1	24793.5	22517.8
65°	1895.8	1942.8	2438.5	3093.3	4547.7	7796.6	15101.1	25343.4	26135.7	27076.4	24507.7
66°	1602.7	1635.3	2058.6	2554.2	3628.8	6324.1	13592.5	25079.3	26888.3	27604.6	24467.9
67.5°	1240.9	1284.4	1638.9	2026.0	2662.8	4377.7	10940.5	23766.0	27025.8	27445.4	23776.9
70°	850.2	879.2	1150.5	1537.6	1819.8	2239.5	6541.2	19648.8	24522.2	24876.7	20665.5
72.5°	597.0	611.4	806.8	1165.0	1400.1	1280.7	3245.3	13979.6	18766.1	19457.1	16074.4
75°	430.5	445.0	553.5	835.7	1092.6	839.4	1487.0	8929.0	11508.6	12051.2	9681.5
77.5°	311.1	329.2	376.3	539.1	792.3	589.7	730.8	4663.5	5426.9	5332.8	4164.2
80°	188.1	206.2	278.6	347.3	578.9	416.1	401.6	1946.4	1924.7	1827.0	1309.7
82.5°	86.8	101.3	148.3	235.2	405.2	289.4	191.7	694.6	607.8	557.2	369.0
85°	25.3	32.6	86.8	177.3	206.2	141.1	115.8	238.8	249.6	213.5	123.0
87.5°	0.0	3.6	39.8	43.4	61.5	47.0	43.4	61.5	115.8	94.1	39.8
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°	2919.6	2919.6	2919.6	2919.6	2919.6	2919.6	2919.6	2919.6	2919.6	2919.6	2919.6
2.5°	2948.6	2923.3	2861.8	2767.7	2684.5	2641.1	2579.6	2525.3	2496.4	2492.7	2489.1
5°	3021.0	2952.2	2803.9	2633.8	2507.2	2369.7	2275.7	2206.9	2141.8	2080.3	2116.5
7.5°	3118.6	3010.1	2767.7	2547.0	2272.0	2094.8	1928.3	1830.7	1772.8	1718.5	1711.3
10°	3270.6	3133.1	2742.4	2344.4	2029.6	1769.2	1599.1	1458.0	1378.4	1284.4	1320.5
12.5°	3476.8	3230.8	2648.3	2159.9	1754.7	1479.7	1237.3	1009.4	882.8	785.1	788.7
15°	3683.0	3361.0	2561.5	1935.6	1505.0	1143.3	788.7	633.1	597.0	575.2	582.5
17.5°	3885.6	3466.0	2427.6	1707.7	1219.2	727.2	575.2	542.7	524.6	502.9	502.9
20°	4131.6	3534.7	2261.2	1497.8	839.4	539.1	492.0	470.3	441.4	412.4	416.1
22.5°	4370.4	3592.6	2069.4	1230.1	564.4	466.7	412.4	383.5	358.2	329.2	329.2
25°	4609.2	3610.7	1819.8	882.8	455.9	372.6	322.0	282.2	256.9	231.5	235.2
27.5°	4772.0	3498.5	1584.6	564.4	365.4	282.2	224.3	191.7	170.0	144.7	144.7
30°	4866.1	3292.3	1331.4	398.0	275.0	191.7	133.9	101.3	79.6	61.5	57.9
32.5°	4960.1	3125.9	1045.6	303.9	180.9	101.3	50.7	18.1	0.0	0.0	0.0
35°	5148.3	2937.7	701.9	170.0	61.5	3.6	0.0	0.0	0.0	0.0	0.0
37.5°	5267.7	2677.2	322.0	25.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	5568.0	2547.0	79.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	6056.4	2456.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	6591.8	2420.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	7304.6	2518.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	8057.1	2782.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	8882.0	3031.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	9601.9	3332.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	10926.1	4041.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	13303.0	5434.1	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	15980.3	6468.8	39.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	16960.7	6443.5	68.7	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	16787.1	6088.9	68.7	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	15886.2	5408.8	61.5	7.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	13643.1	4468.1	61.5	10.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	10401.5	3480.4	57.9	14.5	3.6	0.0	0.0	0.0	0.0	0.0	0.0
75°	6277.1	1852.4	47.0	18.1	7.2	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	2500.0	651.2	36.2	14.5	7.2	0.0	0.0	0.0	0.0	0.0	0.0
80°	676.5	195.4	21.7	14.5	10.9	3.6	0.0	0.0	0.0	0.0	0.0
82.5°	177.3	72.4	18.1	14.5	7.2	3.6	0.0	0.0	0.0	0.0	0.0
85°	68.7	28.9	14.5	10.9	10.9	7.2	3.6	0.0	0.0	0.0	0.0
87.5°	21.7	10.9	10.9	7.2	7.2	3.6	3.6	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)