

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: P481696

Luminaire Tested: **IFLD-L-SA8A-740-U-T2-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481696
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8A-740-U-T2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens with House Side Shield
Light Source: (128) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

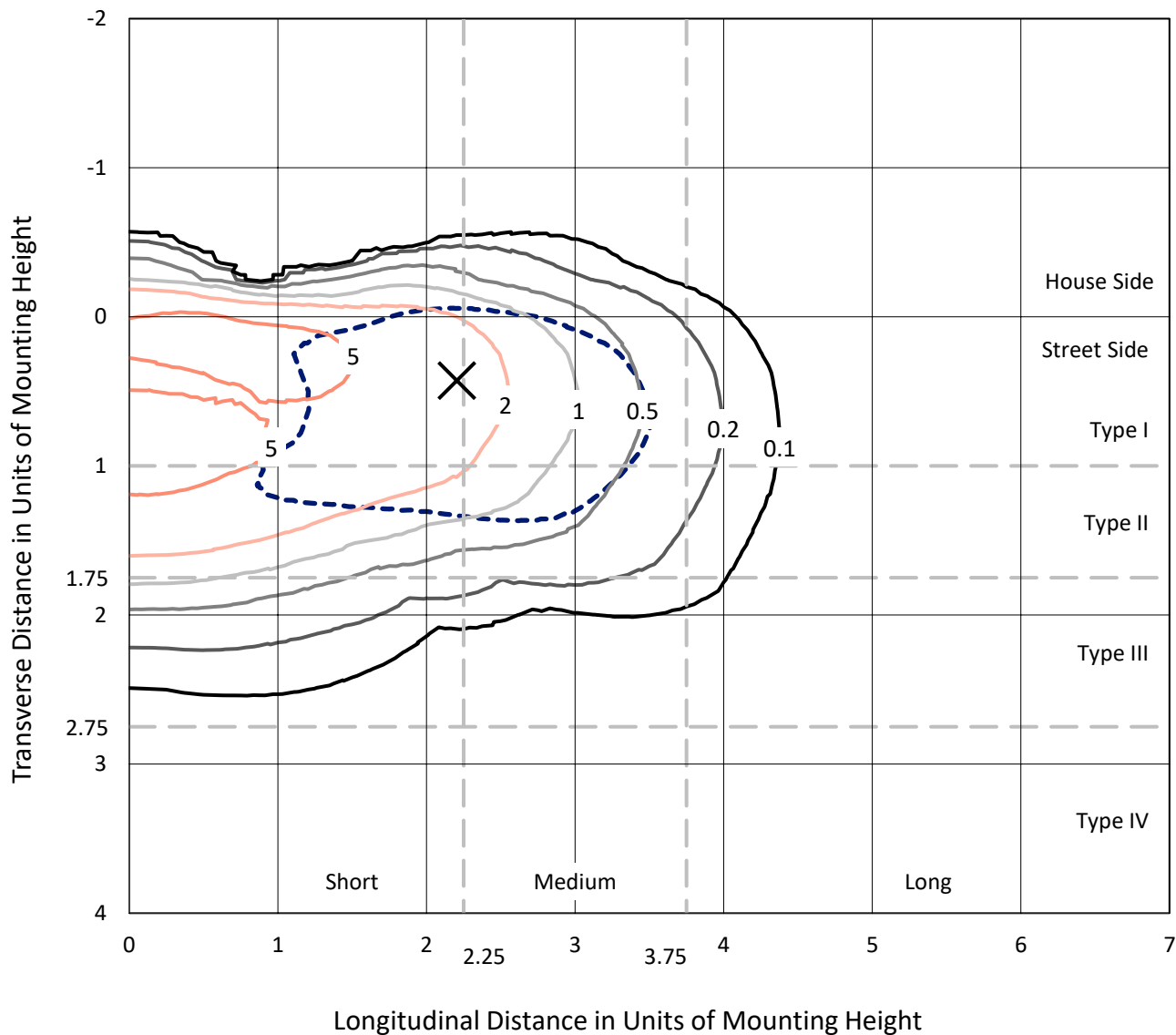
Lumens per Lamp: N/A
Luminaire Lumens: 24669.2 lumens
Efficiency: N/A
Efficacy: 99.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 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

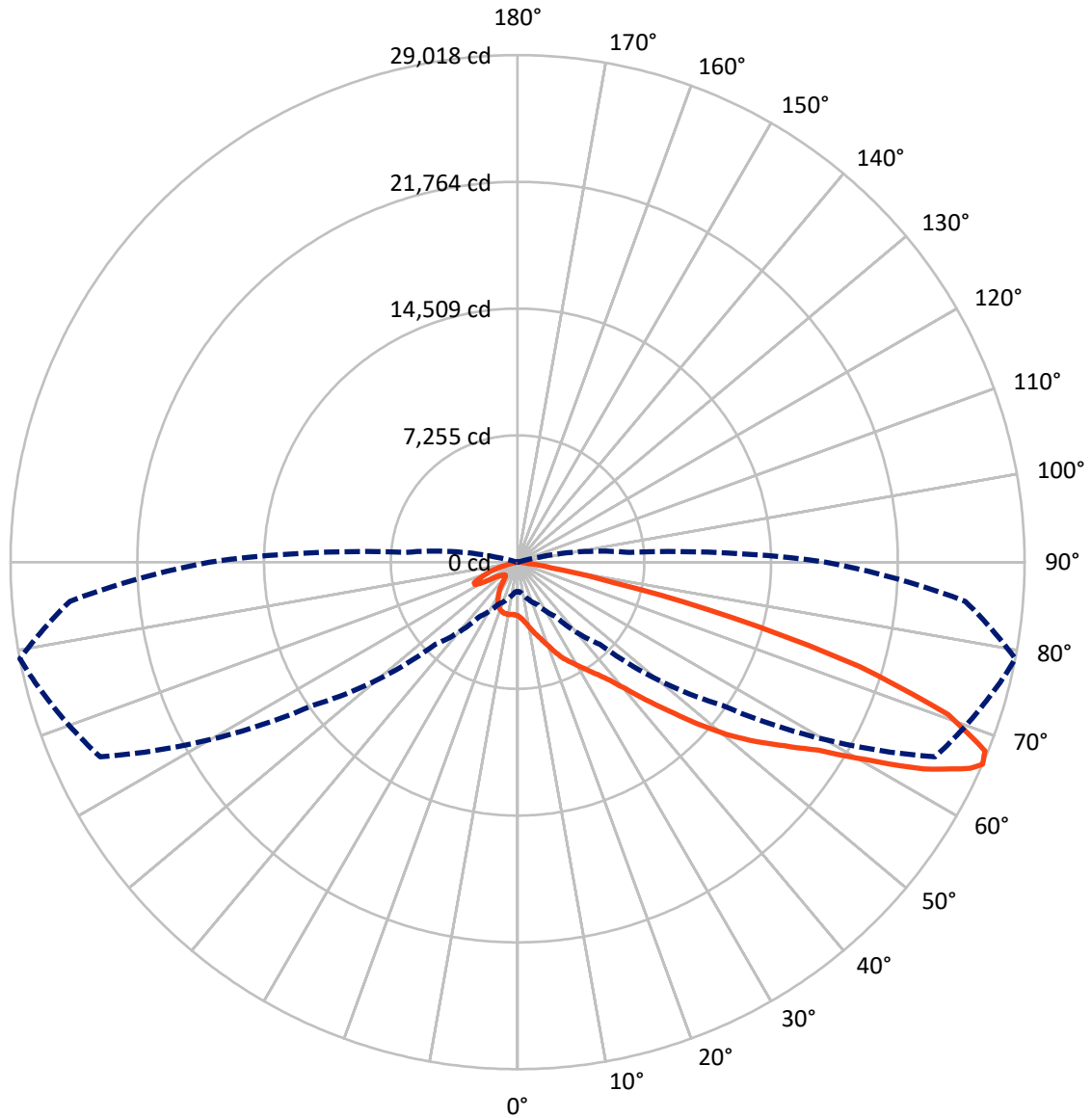
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 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	1852.3	0.0	1852.3
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	22816.9	0.0	22816.9
	% Fixture	92.5	0.0	92.5
Total	Lumens	24669.2	0.0	24669.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	290.3	1.2
10°-20°	798.8	3.2
20°-30°	1327.1	5.4
30°-40°	2279.4	9.2
40°-50°	4129.4	16.7
50°-60°	6527.3	26.5
60°-70°	6642.1	26.9
70°-80°	2532.9	10.3
80°-90°	142.0	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°	24669.2	100.0
0°-180°	24669.2	100.0

Coefficient of Utilization

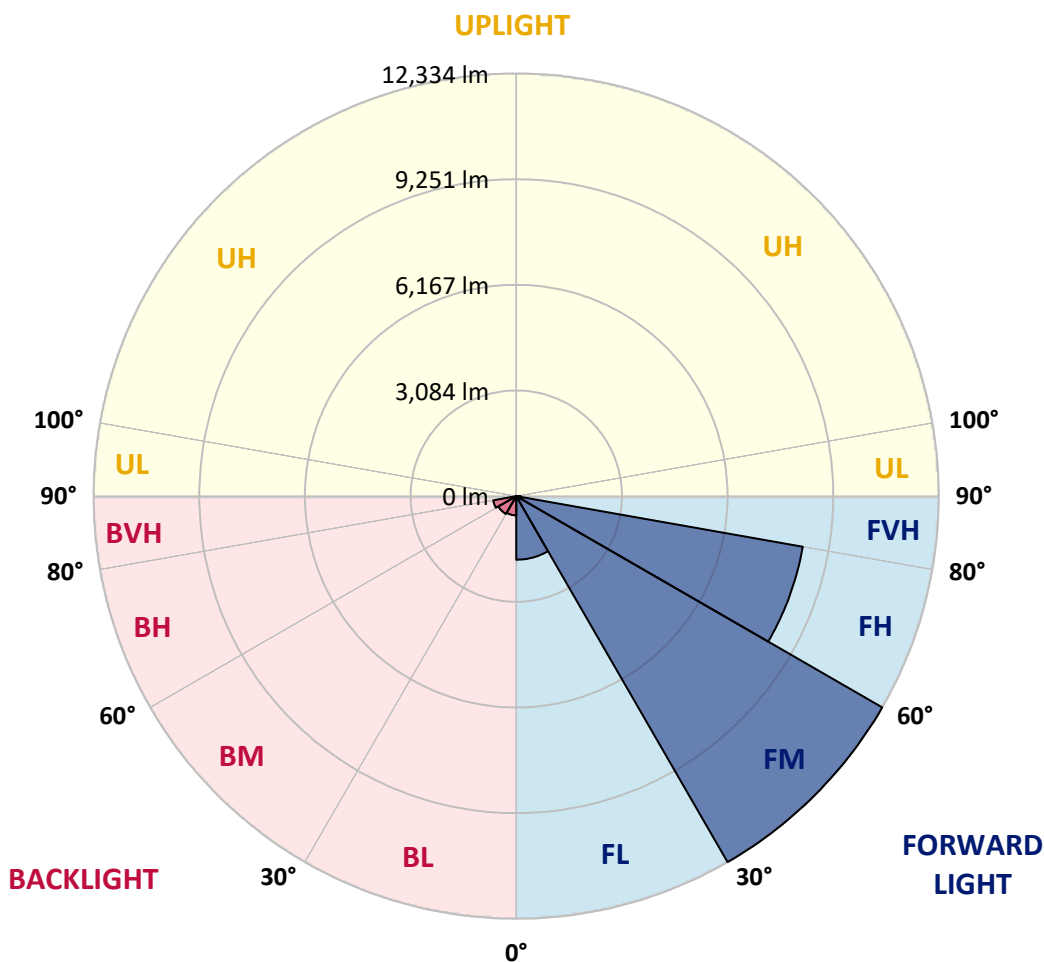


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1855.9	7.5			
FM (30°-60°)	12334.1	50.0			
FH (60°-80°)	8492.2	34.4			G4/12000
FVH (80°-90°)	134.7	0.5			G2/225
BL (0°-30°)	560.2	2.3	B2/1000		
BM (30°-60°)	602.0	2.4	B1/1000		
BH (60°-80°)	682.8	2.8	B2/1000		G2/1000
BVH (80°-90°)	7.3	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°	3069.1	3069.1	3069.1	3069.1	3069.1	3069.1	3069.1	3069.1	3069.1	3069.1	3069.1
2.5°	3476.1	3472.3	3457.1	3430.4	3396.2	3384.8	3335.4	3266.9	3228.9	3187.0	3168.0
5°	3715.7	3696.7	3742.3	3723.3	3730.9	3639.6	3578.8	3529.3	3384.8	3327.8	3236.5
7.5°	3768.9	3787.9	3784.1	3814.6	3845.0	3879.2	3837.4	3765.1	3620.6	3536.9	3438.1
10°	3768.9	3761.3	3791.7	3833.6	3921.1	3997.1	4111.2	4016.1	3905.8	3807.0	3628.2
12.5°	3700.5	3689.1	3719.5	3807.0	3962.9	4118.8	4244.3	4335.6	4179.7	4099.8	3867.8
15°	3491.3	3479.9	3605.4	3761.3	3966.7	4221.5	4483.9	4632.2	4525.8	4400.3	4141.6
17.5°	3232.7	3247.9	3381.0	3639.6	3966.7	4270.9	4605.6	4928.9	4913.7	4753.9	4483.9
20°	3145.2	3156.6	3289.7	3476.1	3848.8	4305.2	4795.8	5252.2	5343.4	5153.3	4799.6
22.5°	3312.6	3301.1	3312.6	3426.6	3768.9	4274.7	4921.3	5621.1	5784.6	5636.3	5214.1
25°	3883.0	3875.4	3780.3	3605.4	3723.3	4206.3	4985.9	5864.5	6241.0	6104.1	5548.8
27.5°	4719.7	4689.3	4541.0	4175.9	3936.3	4248.1	5092.4	6100.3	6640.3	6484.4	5849.3
30°	5617.3	5545.0	5351.0	4894.7	4487.7	4404.1	5153.3	6275.2	7085.3	6887.5	6111.7
32.5°	6237.2	6332.3	6271.4	5807.4	5183.7	4765.4	5252.2	6495.8	7496.0	7366.7	6560.4
35°	7195.6	7305.9	7051.1	6640.3	6012.8	5339.6	5461.3	6674.5	8127.3	7910.6	6978.8
37.5°	8405.0	8488.6	8306.1	7526.4	6864.7	6047.0	5891.1	7047.3	8671.2	8568.5	7515.0
40°	9013.5	9416.6	9158.0	8454.4	7743.2	7035.8	6602.3	7484.6	9618.2	9534.5	8256.7
42.5°	9854.0	10055.5	9922.4	9401.4	8659.8	8093.1	7480.8	8336.5	10766.7	10766.7	9260.7
45°	10743.9	10751.5	10743.9	10318.0	9660.0	9367.2	8667.4	9405.2	12002.8	12139.7	10462.5
47.5°	11474.1	11702.3	11683.3	11428.5	10918.9	10808.6	9854.0	10622.2	13554.5	13794.1	11633.9
50°	11850.6	12105.4	12181.5	12314.6	12291.8	12523.8	11150.9	12033.2	14893.2	15482.7	13139.9
52.5°	11748.0	11767.0	12234.8	12759.6	13596.3	14246.6	12714.0	13634.3	16460.1	17041.9	14303.7
55°	10907.5	10835.2	11797.4	12398.3	14128.7	15300.1	14878.0	15631.0	17680.9	18567.0	15505.5
57.5°	9062.9	9081.9	9971.9	11192.7	13733.2	15718.4	17190.3	18239.9	19392.3	20286.0	17194.1
60°	6256.2	6233.4	7229.8	8640.8	11409.5	14938.8	18521.4	21620.9	21681.8	22948.3	20225.2
62.5°	3517.9	3525.5	4282.4	5488.0	7982.8	12208.1	18456.7	25211.1	24952.5	26063.0	23670.9
65°	1992.9	2042.3	2563.3	3251.7	4780.6	8195.8	15874.4	26641.1	27474.0	28462.8	25762.6
66°	1684.8	1719.0	2164.0	2685.0	3814.6	6647.9	14288.5	26363.5	28265.1	29018.1	25720.8
67.5°	1304.5	1350.1	1722.8	2129.8	2799.1	4601.8	11500.7	24982.9	28409.6	28850.8	24994.4
70°	893.7	924.2	1209.4	1616.3	1913.0	2354.2	6876.1	20654.9	25777.8	26150.5	21723.6
72.5°	627.5	642.7	848.1	1224.6	1471.8	1346.3	3411.4	14695.4	19727.0	20453.4	16897.4
75°	452.6	467.8	581.9	878.5	1148.6	882.3	1563.1	9386.2	12097.8	12668.3	10177.2
77.5°	327.1	346.1	395.5	566.7	832.9	619.9	768.2	4902.3	5704.7	5605.9	4377.4
80°	197.8	216.8	292.8	365.1	608.5	437.4	422.2	2046.1	2023.3	1920.6	1376.7
82.5°	91.3	106.5	155.9	247.2	426.0	304.3	201.6	730.2	638.9	585.7	387.9
85°	26.6	34.2	91.3	186.4	216.8	148.3	121.7	251.0	262.4	224.4	129.3
87.5°	0.0	3.8	41.8	45.6	64.7	49.4	45.6	64.7	121.7	98.9	41.8
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°	3069.1	3069.1	3069.1	3069.1	3069.1	3069.1	3069.1	3069.1	3069.1	3069.1	3069.1
2.5°	3099.6	3073.0	3008.3	2909.4	2821.9	2776.3	2711.7	2654.6	2624.2	2620.4	2616.6
5°	3175.6	3103.4	2947.4	2768.7	2635.6	2491.1	2392.2	2319.9	2251.5	2186.8	2224.8
7.5°	3278.3	3164.2	2909.4	2677.4	2388.4	2202.0	2027.1	1924.4	1863.5	1806.5	1798.9
10°	3438.1	3293.5	2882.8	2464.4	2133.6	1859.7	1681.0	1532.7	1449.0	1350.1	1388.2
12.5°	3654.8	3396.2	2783.9	2270.5	1844.5	1555.5	1300.7	1061.1	928.0	825.3	829.1
15°	3871.6	3533.1	2692.6	2034.7	1582.1	1201.8	829.1	665.6	627.5	604.7	612.3
17.5°	4084.6	3643.4	2551.9	1795.1	1281.7	764.4	604.7	570.5	551.5	528.6	528.6
20°	4343.2	3715.7	2377.0	1574.5	882.3	566.7	517.2	494.4	464.0	433.6	437.4
22.5°	4594.2	3776.5	2175.4	1293.1	593.3	490.6	433.6	403.1	376.5	346.1	346.1
25°	4845.2	3795.6	1913.0	928.0	479.2	391.7	338.5	296.6	270.0	243.4	247.2
27.5°	5016.4	3677.7	1665.8	593.3	384.1	296.6	235.8	201.6	178.7	152.1	152.1
30°	5115.2	3460.9	1399.6	418.3	289.0	201.6	140.7	106.5	83.7	64.7	60.9
32.5°	5214.1	3285.9	1099.1	319.5	190.2	106.5	53.2	19.0	0.0	0.0	0.0
35°	5411.9	3088.2	737.8	178.7	64.7	3.8	0.0	0.0	0.0	0.0	0.0
37.5°	5537.4	2814.3	338.5	26.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	5853.1	2677.4	83.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	6366.5	2582.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	6929.4	2544.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	7678.6	2647.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	8469.6	2924.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	9336.8	3187.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	10093.6	3502.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	11485.5	4248.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	13984.2	5712.3	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	16798.5	6800.0	41.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	17829.2	6773.4	72.3	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	17646.7	6400.7	72.3	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	16699.7	5685.7	64.7	7.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	14341.7	4696.9	64.7	11.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	10934.1	3658.6	60.9	15.2	3.8	0.0	0.0	0.0	0.0	0.0	0.0
75°	6598.5	1947.2	49.4	19.0	7.6	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	2628.0	684.6	38.0	15.2	7.6	0.0	0.0	0.0	0.0	0.0	0.0
80°	711.2	205.4	22.8	15.2	11.4	3.8	0.0	0.0	0.0	0.0	0.0
82.5°	186.4	76.1	19.0	15.2	7.6	3.8	0.0	0.0	0.0	0.0	0.0
85°	72.3	30.4	15.2	11.4	11.4	7.6	3.8	0.0	0.0	0.0	0.0
87.5°	22.8	11.4	11.4	7.6	7.6	3.8	3.8	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)