

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: P481657

Luminaire Tested: **IFLD-L-SA8A-735-U-T2-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481657
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8A-735-U-T2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens with House Side Shield
Light Source: (128) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

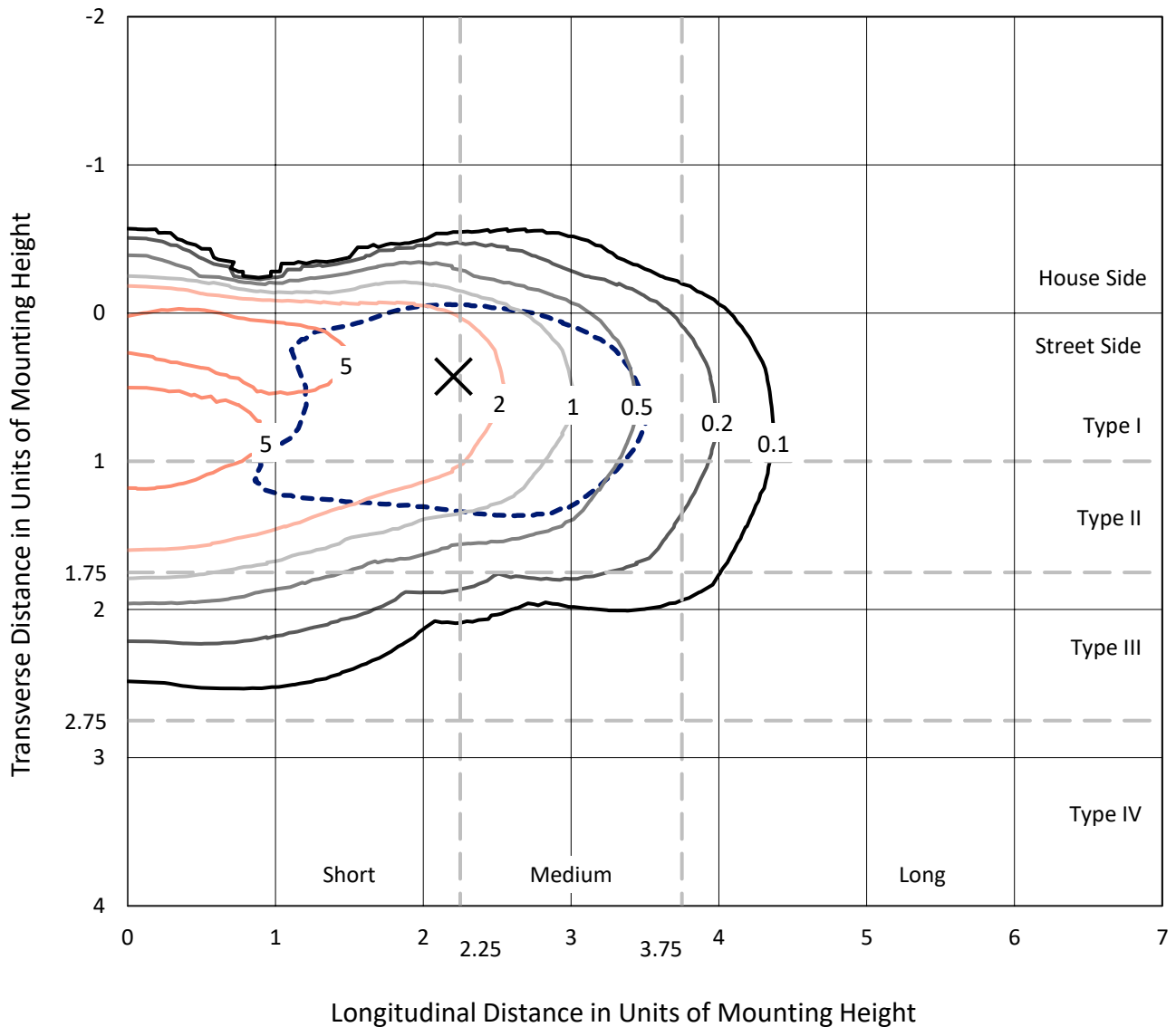
Lumens per Lamp: N/A
Luminaire Lumens: 24331.3 lumens
Efficiency: N/A
Efficacy: 98.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G4

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

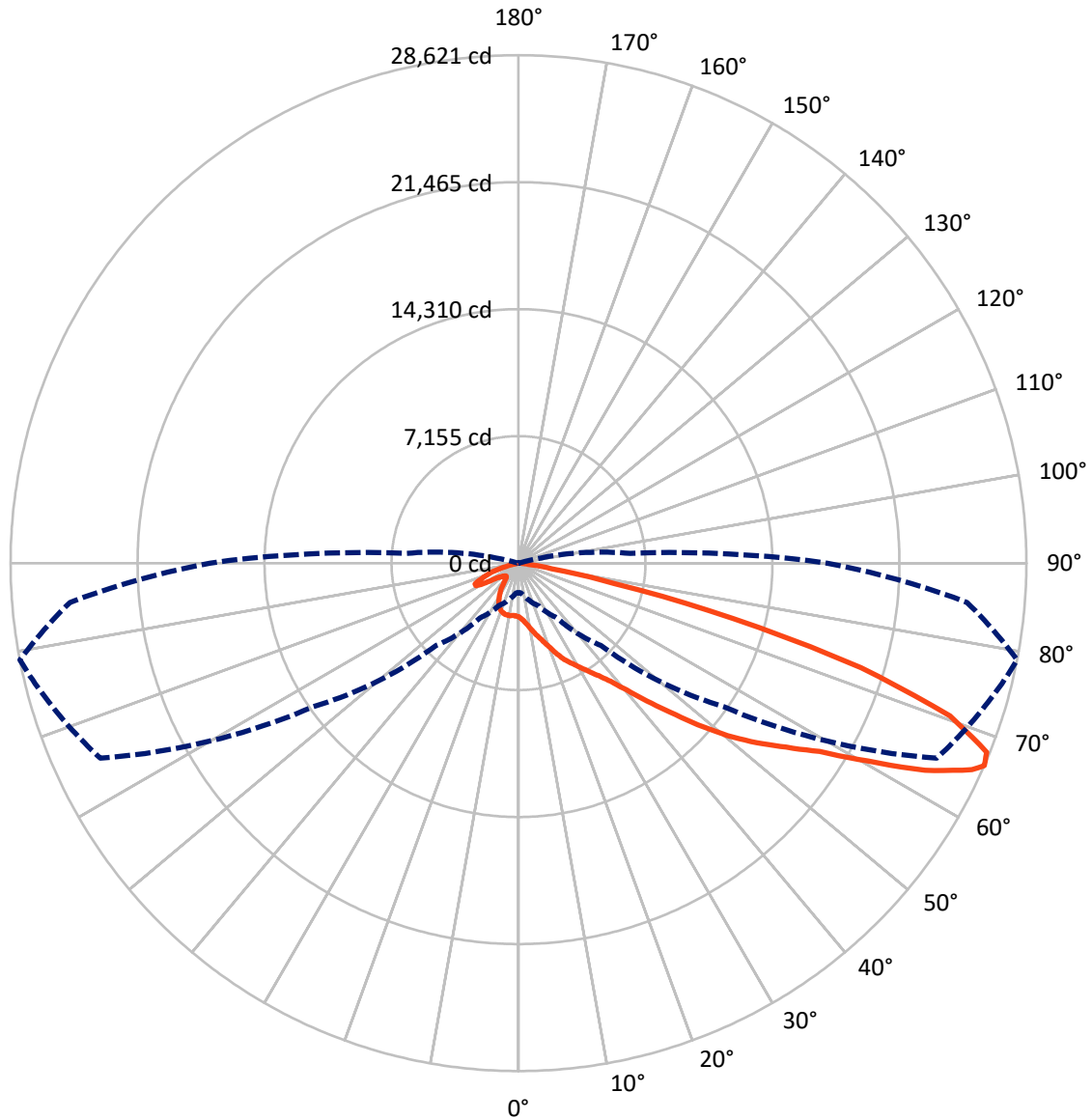
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 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	1827.0	0.0	1827.0
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	22504.3	0.0	22504.3
	% Fixture	92.5	0.0	92.5
Total	Lumens	24331.3	0.0	24331.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	286.3	1.2
10°-20°	787.9	3.2
20°-30°	1308.9	5.4
30°-40°	2248.2	9.2
40°-50°	4072.8	16.7
50°-60°	6437.9	26.5
60°-70°	6551.1	26.9
70°-80°	2498.3	10.3
80°-90°	140.1	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°	24331.3	100.0
0°-180°	24331.3	100.0

Coefficient of Utilization

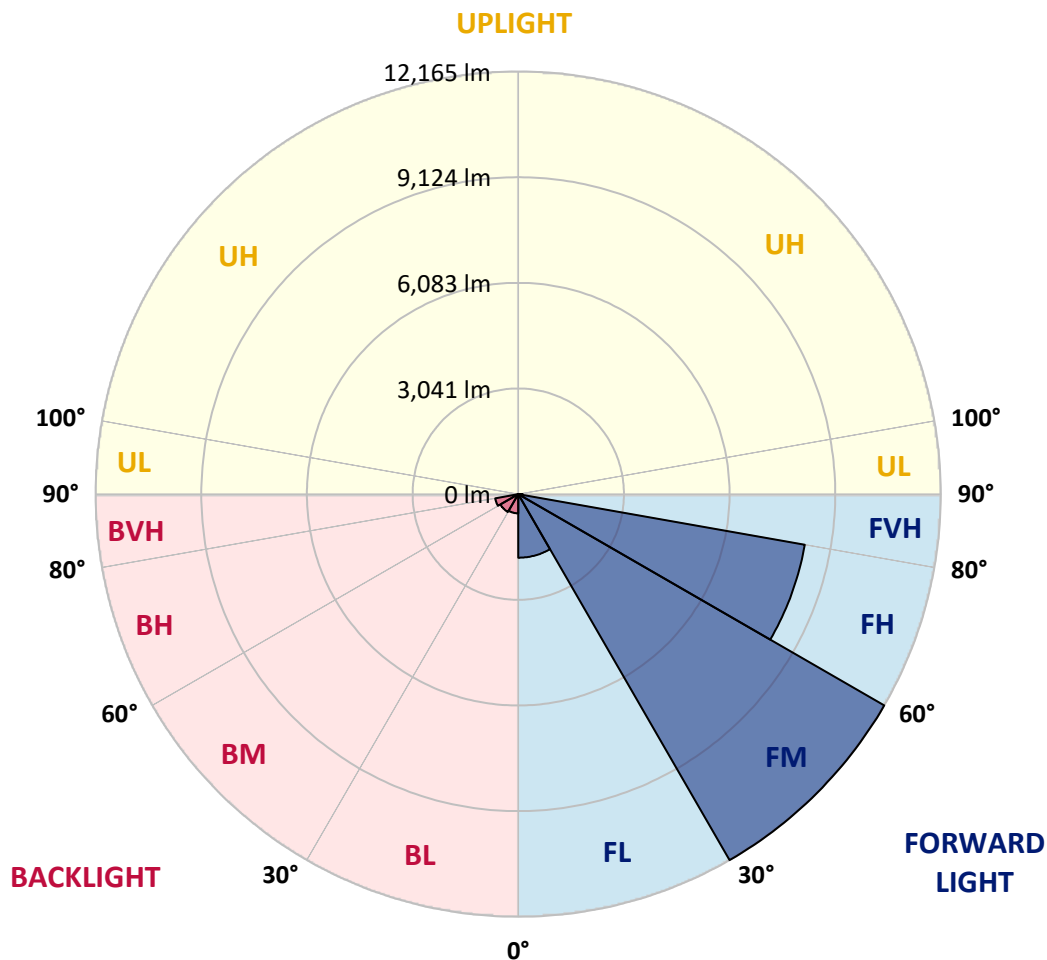


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1830.5	7.5			
FM (30°-60°)	12165.1	50.0			
FH (60°-80°)	8375.8	34.4			G4/12000
FVH (80°-90°)	132.9	0.5			G2/225
BL (0°-30°)	552.5	2.3	B2/1000		
BM (30°-60°)	593.8	2.4	B1/1000		
BH (60°-80°)	673.5	2.8	B2/1000		G2/1000
BVH (80°-90°)	7.2	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°	3027.1	3027.1	3027.1	3027.1	3027.1	3027.1	3027.1	3027.1	3027.1	3027.1	3027.1
2.5°	3428.5	3424.7	3409.7	3383.5	3349.7	3338.4	3289.7	3222.2	3184.6	3143.4	3124.6
5°	3664.8	3646.0	3691.0	3672.3	3679.8	3589.8	3529.7	3481.0	3338.4	3282.2	3192.1
7.5°	3717.3	3736.0	3732.3	3762.3	3792.3	3826.1	3784.8	3713.5	3571.0	3488.5	3391.0
10°	3717.3	3709.8	3739.8	3781.1	3867.3	3942.4	4054.9	3961.1	3852.3	3754.8	3578.5
12.5°	3649.8	3638.5	3668.5	3754.8	3908.6	4062.4	4186.2	4276.2	4122.4	4043.6	3814.8
15°	3443.5	3432.2	3556.0	3709.8	3912.3	4163.7	4422.5	4568.8	4463.8	4340.0	4084.9
17.5°	3188.4	3203.4	3334.7	3589.8	3912.3	4212.4	4542.5	4861.4	4846.4	4688.8	4422.5
20°	3102.1	3113.4	3244.7	3428.5	3796.1	4246.2	4730.1	5180.2	5270.2	5082.7	4733.8
22.5°	3267.2	3255.9	3267.2	3379.7	3717.3	4216.2	4853.9	5544.1	5705.4	5559.1	5142.7
25°	3829.8	3822.3	3728.5	3556.0	3672.3	4148.7	4917.6	5784.1	6155.5	6020.4	5472.8
27.5°	4655.1	4625.0	4478.8	4118.7	3882.3	4189.9	5022.7	6016.7	6549.3	6395.5	5769.1
30°	5540.3	5469.0	5277.7	4827.6	4426.2	4343.7	5082.7	6189.2	6988.2	6793.2	6027.9
32.5°	6151.7	6245.5	6185.5	5727.9	5112.7	4700.1	5180.2	6406.8	7393.3	7265.8	6470.6
35°	7097.0	7205.8	6954.5	6549.3	5930.4	5266.5	5386.5	6583.1	8016.0	7802.2	6883.2
37.5°	8289.8	8372.4	8192.3	7423.3	6770.7	5964.2	5810.4	6950.7	8552.4	8451.1	7412.1
40°	8890.0	9287.6	9032.5	8338.6	7637.1	6939.5	6511.8	7382.1	9486.4	9403.9	8143.5
42.5°	9719.0	9917.8	9786.5	9272.6	8541.2	7982.2	7378.3	8222.3	10619.2	10619.2	9133.8
45°	10596.7	10604.2	10596.7	10176.6	9527.7	9238.8	8548.7	9276.4	11838.3	11973.4	10319.1
47.5°	11316.9	11542.0	11523.2	11271.9	10769.3	10660.5	9719.0	10476.7	13368.8	13605.1	11474.5
50°	11688.3	11939.6	12014.6	12145.9	12123.4	12352.2	10998.1	11868.3	14689.1	15270.5	12959.9
52.5°	11587.0	11605.8	12067.1	12584.8	13410.0	14051.4	12539.8	13447.5	16234.6	16808.5	14107.7
55°	10758.0	10686.8	11635.8	12228.4	13935.2	15090.5	14674.1	15416.8	17438.7	18312.6	15293.0
57.5°	8938.8	8957.5	9835.3	11039.4	13545.1	15503.1	16954.8	17990.1	19126.6	20008.1	16958.5
60°	6170.5	6148.0	7130.8	8522.4	11253.2	14734.1	18267.6	21324.7	21384.8	22633.9	19948.1
62.5°	3469.7	3477.2	4223.7	5412.8	7873.5	12040.9	18203.9	24865.7	24610.7	25706.0	23346.6
65°	1965.6	2014.3	2528.2	3207.2	4715.1	8083.5	15656.9	26276.1	27097.6	28072.9	25409.6
66°	1661.7	1695.5	2134.3	2648.2	3762.3	6556.8	14092.7	26002.3	27877.8	28620.5	25368.4
67.5°	1286.6	1331.6	1699.2	2100.6	2760.8	4538.8	11343.2	24640.7	28020.4	28455.5	24651.9
70°	881.5	911.5	1192.8	1594.2	1886.8	2321.9	6781.9	20372.0	25424.6	25792.2	21426.0
72.5°	618.9	633.9	836.5	1207.8	1451.7	1327.9	3364.7	14494.1	19456.7	20173.2	16665.9
75°	446.4	461.4	573.9	866.5	1132.8	870.2	1541.7	9257.6	11932.1	12494.8	10037.8
77.5°	322.6	341.3	390.1	558.9	821.5	611.4	757.7	4835.1	5626.6	5529.1	4317.5
80°	195.1	213.8	288.8	360.1	600.2	431.4	416.4	2018.1	1995.6	1894.3	1357.9
82.5°	90.0	105.0	153.8	243.8	420.1	300.1	198.8	720.2	630.2	577.7	382.6
85°	26.3	33.8	90.0	183.8	213.8	146.3	120.0	247.6	258.8	221.3	127.5
87.5°	0.0	3.8	41.3	45.0	63.8	48.8	45.0	63.8	120.0	97.5	41.3
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°	3027.1	3027.1	3027.1	3027.1	3027.1	3027.1	3027.1	3027.1	3027.1	3027.1	3027.1
2.5°	3057.1	3030.9	2967.1	2869.6	2783.3	2738.3	2674.5	2618.2	2588.2	2584.5	2580.7
5°	3132.1	3060.9	2907.1	2730.8	2599.5	2456.9	2359.4	2288.1	2220.6	2156.9	2194.4
7.5°	3233.4	3120.9	2869.6	2640.7	2355.7	2171.9	1999.3	1898.0	1838.0	1781.8	1774.2
10°	3391.0	3248.4	2843.3	2430.7	2104.3	1834.3	1658.0	1511.7	1429.2	1331.6	1369.1
12.5°	3604.8	3349.7	2745.8	2239.4	1819.3	1534.2	1282.9	1046.5	915.3	814.0	817.7
15°	3818.6	3484.7	2655.7	2006.8	1560.4	1185.3	817.7	656.4	618.9	596.4	603.9
17.5°	4028.6	3593.5	2517.0	1770.5	1264.1	754.0	596.4	562.7	543.9	521.4	521.4
20°	4283.7	3664.8	2344.4	1552.9	870.2	558.9	510.1	487.6	457.6	427.6	431.4
22.5°	4531.3	3724.8	2145.6	1275.4	585.2	483.9	427.6	397.6	371.4	341.3	341.3
25°	4778.8	3743.6	1886.8	915.3	472.6	386.4	333.8	292.6	266.3	240.1	243.8
27.5°	4947.6	3627.3	1643.0	585.2	378.9	292.6	232.6	198.8	176.3	150.0	150.0
30°	5045.2	3413.5	1380.4	412.6	285.1	198.8	138.8	105.0	82.5	63.8	60.0
32.5°	5142.7	3240.9	1084.1	315.1	187.6	105.0	52.5	18.8	0.0	0.0	0.0
35°	5337.8	3045.9	727.7	176.3	63.8	3.8	0.0	0.0	0.0	0.0	0.0
37.5°	5461.5	2775.8	333.8	26.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	5772.9	2640.7	82.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	6279.3	2547.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	6834.4	2509.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	7573.4	2610.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	8353.6	2884.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	9208.8	3143.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	9955.3	3454.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	11328.2	4189.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	13792.6	5634.1	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	16568.4	6706.9	41.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	17584.9	6680.6	71.3	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	17404.9	6313.0	71.3	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	16470.9	5607.8	63.8	7.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	14145.2	4632.6	63.8	11.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	10784.3	3608.5	60.0	15.0	3.8	0.0	0.0	0.0	0.0	0.0	0.0
75°	6508.1	1920.5	48.8	18.8	7.5	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	2592.0	675.2	37.5	15.0	7.5	0.0	0.0	0.0	0.0	0.0	0.0
80°	701.4	202.6	22.5	15.0	11.3	3.8	0.0	0.0	0.0	0.0	0.0
82.5°	183.8	75.0	18.8	15.0	7.5	3.8	0.0	0.0	0.0	0.0	0.0
85°	71.3	30.0	15.0	11.3	11.3	7.5	3.8	0.0	0.0	0.0	0.0
87.5°	22.5	11.3	11.3	7.5	7.5	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)