

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: P481689

Luminaire Tested: **IFLD-M-SA4D-740-U-T2-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481689
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4D-740-U-T2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens with House Side Shield
Light Source: (64) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

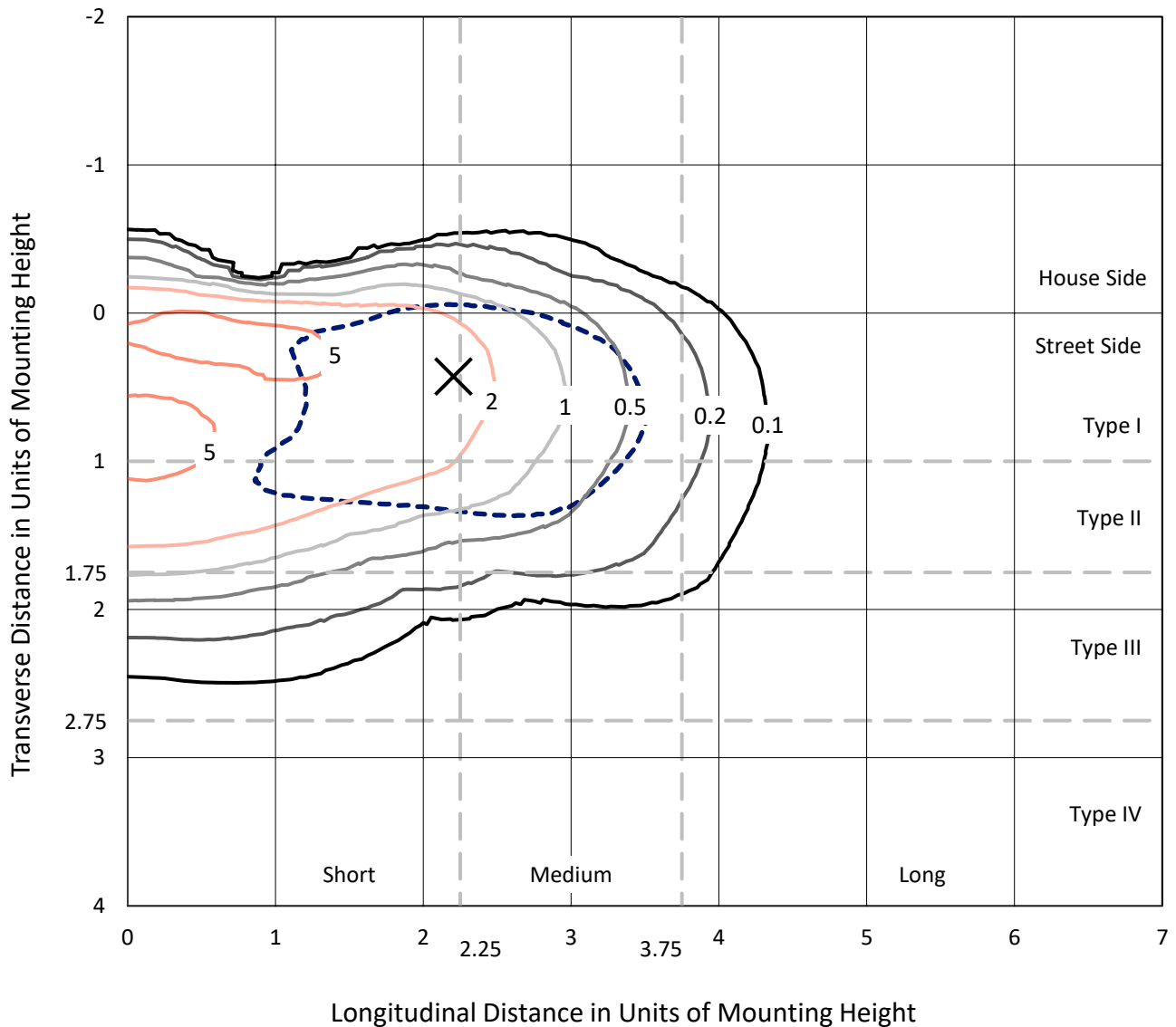
Lumens per Lamp: N/A
Luminaire Lumens: 22528.7 lumens
Efficiency: N/A
Efficacy: 90.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 249.7
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

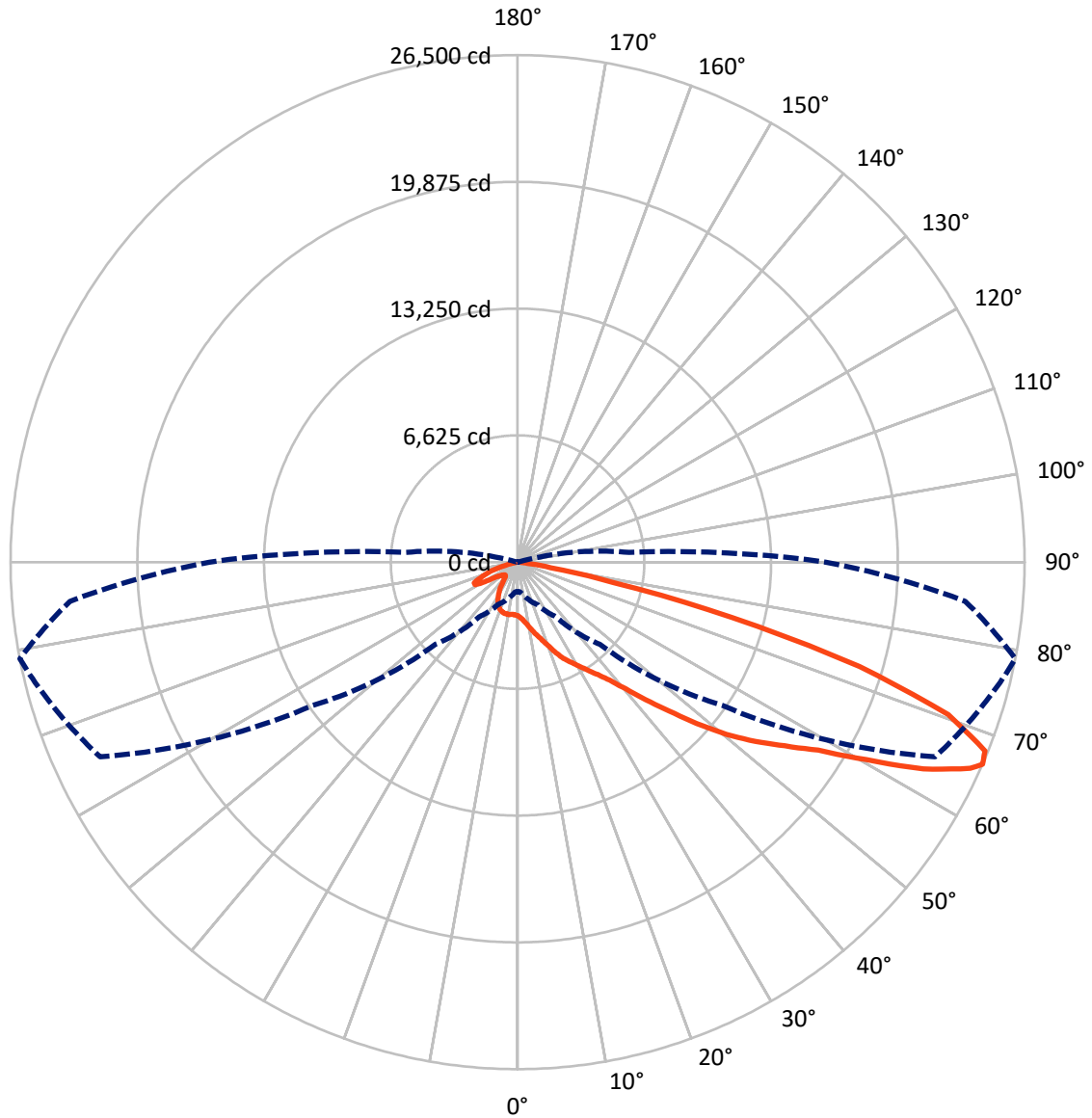
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 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	1691.6	0.0	1691.6
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	20837.2	0.0	20837.2
	% Fixture	92.5	0.0	92.5
Total	Lumens	22528.7	0.0	22528.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	265.1	1.2
10°-20°	729.5	3.2
20°-30°	1211.9	5.4
30°-40°	2081.6	9.2
40°-50°	3771.1	16.7
50°-60°	5961.0	26.5
60°-70°	6065.7	26.9
70°-80°	2313.2	10.3
80°-90°	129.7	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°	22528.7	100.0
0°-180°	22528.7	100.0

Coefficient of Utilization

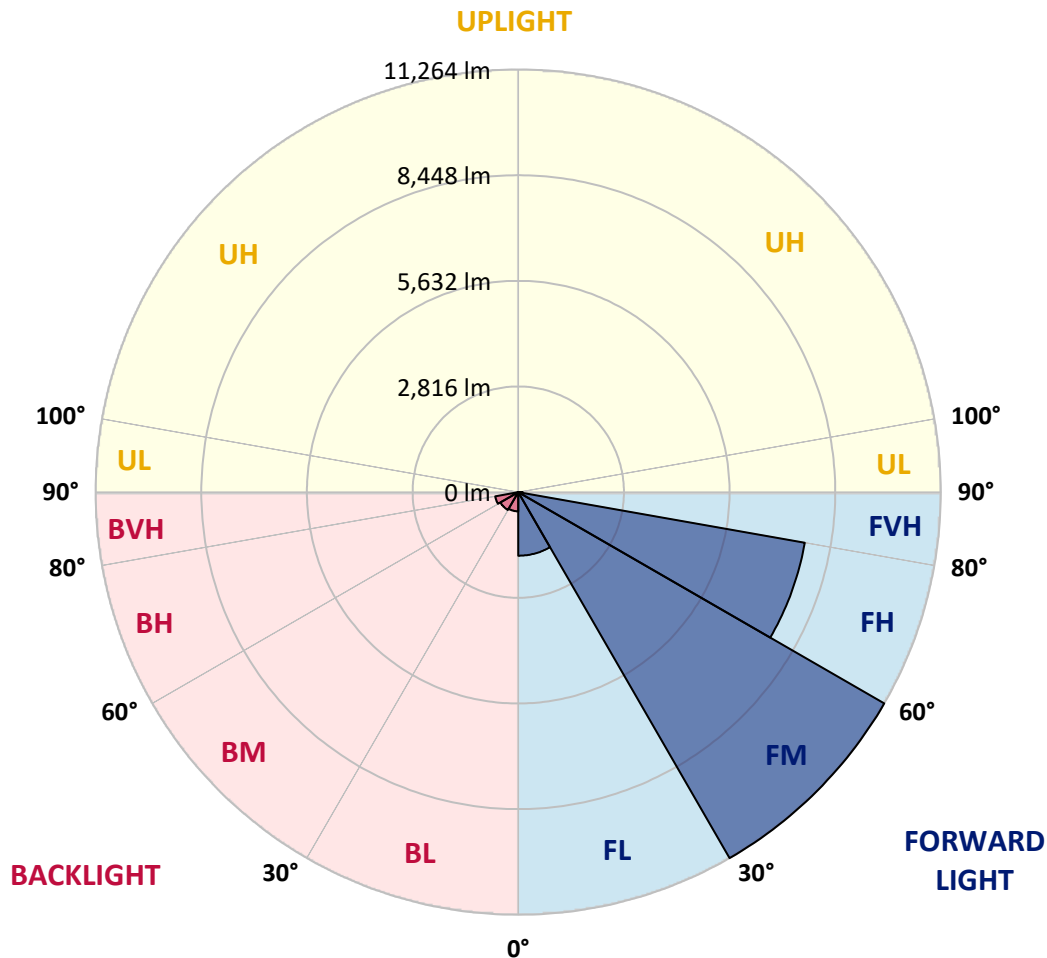


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1694.9	7.5			
FM (30°-60°)	11263.9	50.0			
FH (60°-80°)	7755.3	34.4			G4/12000
FVH (80°-90°)	123.1	0.5			G2/225
BL (0°-30°)	511.6	2.3	B2/1000		
BM (30°-60°)	549.8	2.4	B1/1000		
BH (60°-80°)	623.6	2.8	B2/1000		G2/1000
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: 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°	2802.8	2802.8	2802.8	2802.8	2802.8	2802.8	2802.8	2802.8	2802.8	2802.8	2802.8
2.5°	3174.5	3171.0	3157.1	3132.8	3101.5	3091.1	3046.0	2983.5	2948.7	2910.5	2893.1
5°	3393.3	3375.9	3417.6	3400.2	3407.2	3323.8	3268.3	3223.1	3091.1	3039.0	2955.7
7.5°	3441.9	3459.3	3455.8	3483.6	3511.4	3542.6	3504.4	3438.4	3306.5	3230.0	3139.7
10°	3441.9	3435.0	3462.7	3501.0	3580.8	3650.3	3754.5	3667.7	3566.9	3476.6	3313.4
12.5°	3379.4	3369.0	3396.8	3476.6	3619.0	3761.4	3876.1	3959.4	3817.0	3744.1	3532.2
15°	3188.4	3177.9	3292.6	3435.0	3622.5	3855.2	4094.9	4230.3	4133.1	4018.5	3782.3
17.5°	2952.2	2966.1	3087.6	3323.8	3622.5	3900.4	4206.0	4501.2	4487.3	4341.5	4094.9
20°	2872.3	2882.7	3004.3	3174.5	3514.8	3931.6	4379.7	4796.4	4879.8	4706.1	4383.1
22.5°	3025.1	3014.7	3025.1	3129.3	3441.9	3903.8	4494.3	5133.3	5282.7	5147.2	4761.7
25°	3546.1	3539.2	3452.3	3292.6	3400.2	3841.3	4553.3	5355.6	5699.5	5574.4	5067.4
27.5°	4310.2	4282.4	4147.0	3813.5	3594.7	3879.5	4650.6	5571.0	6064.2	5921.8	5341.7
30°	5129.9	5063.9	4886.7	4470.0	4098.3	4021.9	4706.1	5730.7	6470.5	6289.9	5581.4
32.5°	5696.0	5782.8	5727.3	5303.5	4733.9	4351.9	4796.4	5932.2	6845.6	6727.5	5991.2
35°	6571.2	6672.0	6439.3	6064.2	5491.1	4876.3	4987.5	6095.4	7422.2	7224.2	6373.3
37.5°	7675.7	7752.1	7585.4	6873.4	6269.1	5522.3	5379.9	6435.8	7918.8	7825.0	6863.0
40°	8231.4	8599.6	8363.4	7720.9	7071.4	6425.4	6029.4	6835.2	8783.6	8707.2	7540.2
42.5°	8999.0	9183.1	9061.5	8585.7	7908.4	7390.9	6831.7	7613.2	9832.5	9832.5	8457.2
45°	9811.7	9818.6	9811.7	9422.7	8821.8	8554.4	7915.4	8589.1	10961.3	11086.4	9554.7
47.5°	10478.6	10686.9	10669.6	10436.9	9971.5	9870.7	8999.0	9700.6	12378.4	12597.2	10624.4
50°	10822.4	11055.1	11124.6	11246.1	11225.3	11437.1	10183.3	10989.1	13600.9	14139.3	11999.8
52.5°	10728.6	10746.0	11173.2	11652.5	12416.6	13010.5	11610.8	12451.3	15031.9	15563.3	13062.6
55°	9961.0	9895.1	10773.8	11322.5	12902.8	13972.6	13587.0	14274.7	16146.8	16956.0	14160.1
57.5°	8276.6	8293.9	9106.6	10221.5	12541.6	14354.6	15698.7	16657.3	17709.7	18525.9	15702.2
60°	5713.4	5692.5	6602.5	7891.0	10419.5	13642.6	16914.3	19745.0	19800.5	20957.1	18470.3
62.5°	3212.7	3219.6	3910.8	5011.8	7290.2	11148.9	16855.3	23023.6	22787.5	23801.6	21617.0
65°	1819.9	1865.1	2340.9	2969.6	4365.8	7484.7	14497.0	24329.5	25090.2	25993.2	23527.2
66°	1538.6	1569.9	1976.2	2452.1	3483.6	6071.1	13048.7	24076.0	25812.6	26500.3	23489.0
67.5°	1191.3	1233.0	1573.3	1945.0	2556.3	4202.5	10502.9	22815.2	25944.6	26347.5	22825.7
70°	816.2	844.0	1104.5	1476.1	1747.0	2149.9	6279.5	18862.8	23541.1	23881.5	19838.7
72.5°	573.1	587.0	774.5	1118.4	1344.1	1229.5	3115.4	13420.3	18015.3	18678.7	15431.3
75°	413.3	427.2	531.4	802.3	1048.9	805.8	1427.5	8571.8	11048.2	11569.1	9294.2
77.5°	298.7	316.1	361.2	517.5	760.6	566.1	701.6	4476.9	5209.8	5119.5	3997.6
80°	180.6	198.0	267.4	333.4	555.7	399.4	385.5	1868.6	1847.7	1754.0	1257.3
82.5°	83.4	97.2	142.4	225.8	389.0	277.9	184.1	666.8	583.5	534.9	354.3
85°	24.3	31.3	83.4	170.2	198.0	135.5	111.1	229.2	239.6	204.9	118.1
87.5°	0.0	3.5	38.2	41.7	59.0	45.2	41.7	59.0	111.1	90.3	38.2
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°	2802.8	2802.8	2802.8	2802.8	2802.8	2802.8	2802.8	2802.8	2802.8	2802.8	2802.8
2.5°	2830.6	2806.3	2747.3	2657.0	2577.1	2535.4	2476.4	2424.3	2396.5	2393.0	2389.5
5°	2900.1	2834.1	2691.7	2528.5	2406.9	2274.9	2184.6	2118.6	2056.1	1997.1	2031.8
7.5°	2993.9	2889.7	2657.0	2445.1	2181.2	2011.0	1851.2	1757.4	1701.9	1649.8	1642.8
10°	3139.7	3007.8	2632.7	2250.6	1948.4	1698.4	1535.1	1399.7	1323.3	1233.0	1267.7
12.5°	3337.7	3101.5	2542.4	2073.5	1684.5	1420.5	1187.8	969.0	847.5	753.7	757.2
15°	3535.7	3226.6	2459.0	1858.1	1444.8	1097.5	757.2	607.8	573.1	552.2	559.2
17.5°	3730.2	3327.3	2330.5	1639.3	1170.5	698.1	552.2	521.0	503.6	482.8	482.8
20°	3966.4	3393.3	2170.7	1437.9	805.8	517.5	472.4	451.5	423.7	395.9	399.4
22.5°	4195.6	3448.9	1986.7	1180.9	541.8	448.0	395.9	368.2	343.8	316.1	316.1
25°	4424.8	3466.2	1747.0	847.5	437.6	357.7	309.1	270.9	246.6	222.3	225.8
27.5°	4581.1	3358.6	1521.2	541.8	350.8	270.9	215.3	184.1	163.2	138.9	138.9
30°	4671.4	3160.6	1278.1	382.0	264.0	184.1	128.5	97.2	76.4	59.0	55.6
32.5°	4761.7	3000.8	1003.7	291.7	173.7	97.2	48.6	17.4	0.0	0.0	0.0
35°	4942.3	2820.2	673.8	163.2	59.0	3.5	0.0	0.0	0.0	0.0	0.0
37.5°	5056.9	2570.1	309.1	24.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	5345.2	2445.1	76.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	5814.1	2358.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	6328.1	2323.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	7012.3	2417.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	7734.7	2670.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	8526.6	2910.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	9217.8	3198.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	10489.0	3879.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	12770.8	5216.7	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	15341.0	6210.0	38.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	16282.2	6185.7	66.0	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	16115.5	5845.3	66.0	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	15250.7	5192.4	59.0	6.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	13097.3	4289.4	59.0	10.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	9985.4	3341.2	55.6	13.9	3.5	0.0	0.0	0.0	0.0	0.0	0.0
75°	6025.9	1778.3	45.2	17.4	6.9	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	2400.0	625.2	34.7	13.9	6.9	0.0	0.0	0.0	0.0	0.0	0.0
80°	649.5	187.6	20.8	13.9	10.4	3.5	0.0	0.0	0.0	0.0	0.0
82.5°	170.2	69.5	17.4	13.9	6.9	3.5	0.0	0.0	0.0	0.0	0.0
85°	66.0	27.8	13.9	10.4	10.4	6.9	3.5	0.0	0.0	0.0	0.0
87.5°	20.8	10.4	10.4	6.9	6.9	3.5	3.5	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)