

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: P481576

Luminaire Tested: **IFLD-L-SA7C-727-U-T2-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481576
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7C-727-U-T2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens with House Side Shield
Light Source: (112) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

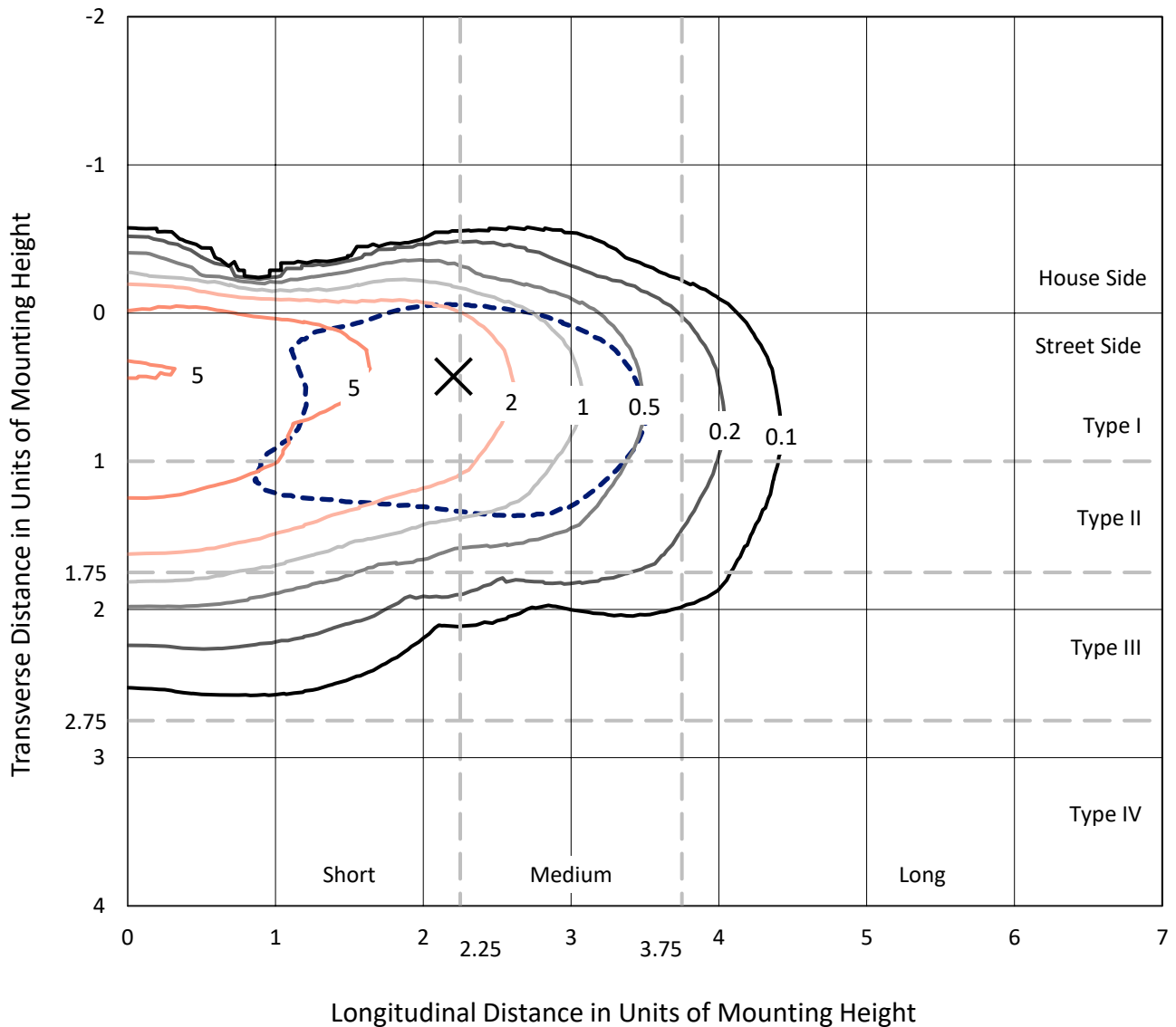
Lumens per Lamp: N/A
Luminaire Lumens: 26698.3 lumens
Efficiency: N/A
Efficacy: 72.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G4

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

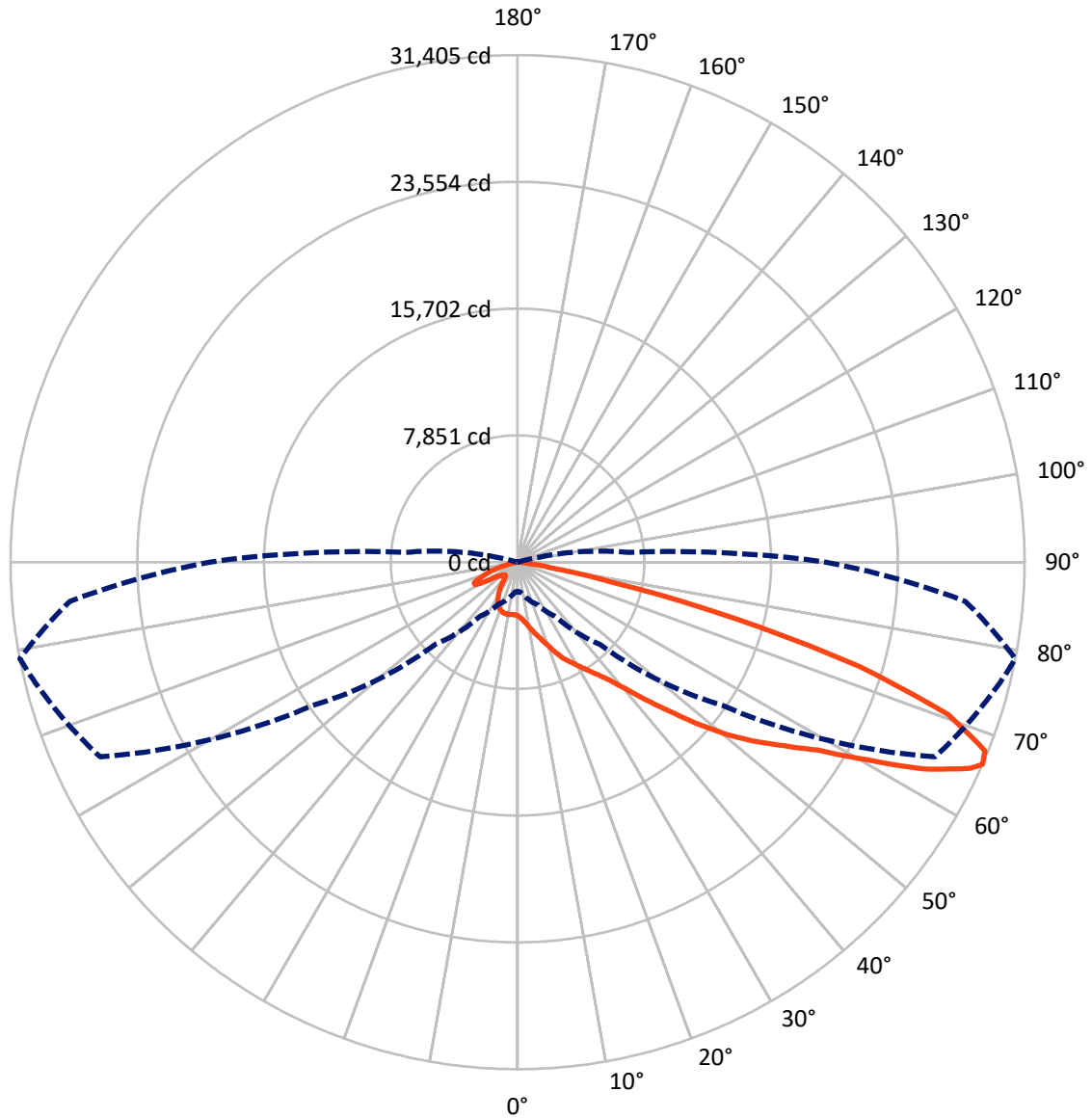
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 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	2004.7	0.0	2004.7
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	24693.6	0.0	24693.6
	% Fixture	92.5	0.0	92.5
Total	Lumens	26698.3	0.0	26698.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	314.1	1.2
10°-20°	864.5	3.2
20°-30°	1436.2	5.4
30°-40°	2466.9	9.2
40°-50°	4469.0	16.7
50°-60°	7064.2	26.5
60°-70°	7188.4	26.9
70°-80°	2741.3	10.3
80°-90°	153.7	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°	26698.3	100.0
0°-180°	26698.3	100.0

Coefficient of Utilization



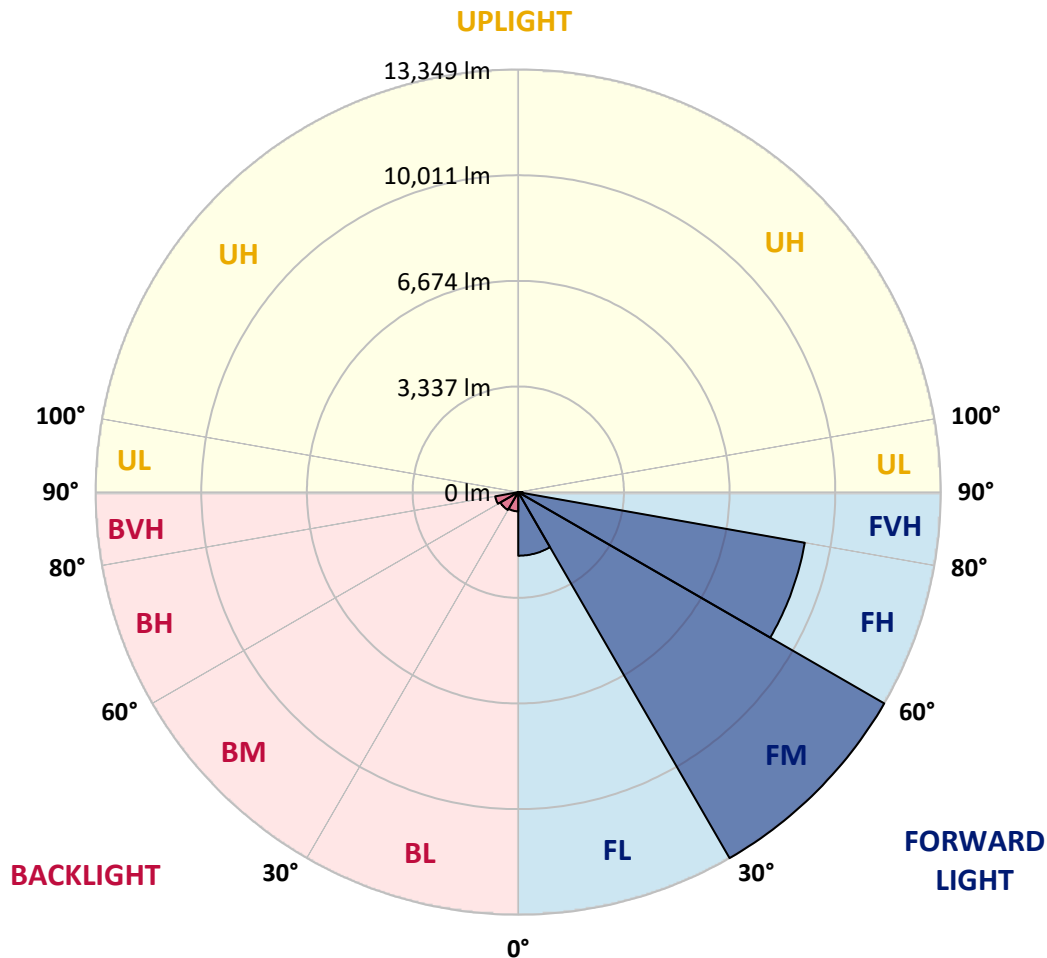
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2008.6	7.5			
FM (30°-60°)	13348.6	50.0			
FH (60°-80°)	9190.7	34.4			G4/12000
FVH (80°-90°)	145.8	0.5			G2/225
BL (0°-30°)	606.3	2.3	B2/1000		
BM (30°-60°)	651.5	2.4	B1/1000		
BH (60°-80°)	739.0	2.8	B2/1000		G2/1000
BVH (80°-90°)	7.9	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°	3321.6	3321.6	3321.6	3321.6	3321.6	3321.6	3321.6	3321.6	3321.6	3321.6	3321.6
2.5°	3762.0	3757.9	3741.4	3712.6	3675.6	3663.2	3609.7	3535.6	3494.5	3449.2	3428.6
5°	4021.3	4000.7	4050.1	4029.5	4037.8	3939.0	3873.1	3819.6	3663.2	3601.5	3502.7
7.5°	4078.9	4099.5	4095.4	4128.3	4161.3	4198.3	4153.0	4074.8	3918.4	3827.9	3720.8
10°	4078.9	4070.7	4103.6	4148.9	4243.6	4325.9	4449.4	4346.5	4227.1	4120.1	3926.6
12.5°	4004.8	3992.5	4025.4	4120.1	4288.8	4457.6	4593.4	4692.2	4523.5	4437.0	4185.9
15°	3778.5	3766.1	3901.9	4070.7	4293.0	4568.7	4852.7	5013.3	4898.0	4762.2	4482.3
17.5°	3498.6	3515.0	3659.1	3939.0	4293.0	4622.2	4984.4	5334.3	5317.8	5145.0	4852.7
20°	3403.9	3416.3	3560.3	3762.0	4165.4	4659.3	5190.2	5684.2	5782.9	5577.1	5194.4
22.5°	3585.0	3572.7	3585.0	3708.5	4078.9	4626.4	5326.1	6083.4	6260.4	6099.9	5643.0
25°	4202.4	4194.2	4091.3	3901.9	4029.5	4552.3	5396.0	6346.8	6754.3	6606.1	6005.2
27.5°	5107.9	5075.0	4914.5	4519.3	4260.0	4597.5	5511.3	6602.0	7186.5	7017.7	6330.4
30°	6079.3	6001.1	5791.2	5297.3	4856.9	4766.3	5577.1	6791.4	7668.1	7454.0	6614.4
32.5°	6750.2	6853.1	6787.2	6285.1	5610.1	5157.3	5684.2	7030.1	8112.6	7972.6	7100.1
35°	7787.4	7906.8	7631.0	7186.5	6507.4	5778.8	5910.5	7223.5	8795.8	8561.2	7552.8
37.5°	9096.3	9186.9	8989.3	8145.5	7429.3	6544.4	6375.6	7626.9	9384.4	9273.3	8133.2
40°	9754.9	10191.2	9911.3	9149.8	8380.1	7614.6	7145.3	8100.2	10409.3	10318.8	8935.8
42.5°	10664.5	10882.6	10738.6	10174.7	9372.1	8758.8	8096.1	9022.2	11652.3	11652.3	10022.4
45°	11627.6	11635.9	11627.6	11166.6	10454.6	10137.6	9380.3	10178.8	12990.0	13138.2	11323.1
47.5°	12417.9	12664.9	12644.3	12368.5	11817.0	11697.6	10664.5	11495.9	14669.3	14928.6	12590.8
50°	12825.4	13101.2	13183.5	13327.5	13302.8	13553.9	12068.0	13022.9	16118.2	16756.1	14220.7
52.5°	12714.3	12734.8	13241.1	13809.1	14714.6	15418.4	13759.7	14755.8	17813.9	18443.7	15480.2
55°	11804.6	11726.4	12767.8	13418.1	15290.9	16558.6	16101.7	16916.7	19135.2	20094.2	16780.8
57.5°	9808.4	9829.0	10792.1	12113.3	14862.8	17011.3	18604.2	19740.2	20987.4	21954.6	18608.3
60°	6770.8	6746.1	7824.5	9351.5	12347.9	16167.6	20044.8	23399.3	23465.2	24835.8	21888.8
62.5°	3807.3	3815.5	4634.6	5939.4	8639.4	13212.3	19974.8	27284.8	27004.9	28206.8	25617.8
65°	2156.8	2210.3	2774.2	3519.2	5173.8	8869.9	17180.1	28832.4	29733.8	30804.0	27881.6
66°	1823.4	1860.4	2342.0	2905.9	4128.3	7194.7	15463.7	28531.9	30589.9	31404.9	27836.3
67.5°	1411.8	1461.2	1864.5	2304.9	3029.4	4980.3	12446.7	27037.8	30746.3	31223.8	27050.2
70°	967.3	1000.2	1308.9	1749.3	2070.3	2547.8	7441.7	22353.9	27898.1	28301.5	23510.5
72.5°	679.1	695.6	917.9	1325.3	1592.9	1457.1	3692.0	15904.1	21349.6	22135.7	18287.3
75°	489.8	506.3	629.7	950.8	1243.0	954.9	1691.7	10158.2	13092.9	13710.3	11014.4
77.5°	354.0	374.6	428.1	613.3	901.4	670.9	831.4	5305.5	6174.0	6066.9	4737.5
80°	214.0	234.6	316.9	395.1	658.6	473.3	456.9	2214.4	2189.7	2078.6	1490.0
82.5°	98.8	115.2	168.8	267.5	461.0	329.3	218.1	790.3	691.5	633.9	419.8
85°	28.8	37.0	98.8	201.7	234.6	160.5	131.7	271.7	284.0	242.8	139.9
87.5°	0.0	4.1	45.3	49.4	70.0	53.5	49.4	70.0	131.7	107.0	45.3
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°	3321.6	3321.6	3321.6	3321.6	3321.6	3321.6	3321.6	3321.6	3321.6	3321.6	3321.6
2.5°	3354.5	3325.7	3255.7	3148.7	3054.1	3004.7	2934.7	2873.0	2840.0	2835.9	2831.8
5°	3436.8	3358.6	3189.9	2996.4	2852.4	2696.0	2588.9	2510.7	2436.7	2366.7	2407.8
7.5°	3548.0	3424.5	3148.7	2897.6	2584.8	2383.2	2193.8	2082.7	2016.8	1955.1	1946.9
10°	3720.8	3564.4	3119.9	2667.2	2309.1	2012.7	1819.3	1658.7	1568.2	1461.2	1502.3
12.5°	3955.5	3675.6	3012.9	2457.2	1996.2	1683.4	1407.7	1148.4	1004.3	893.2	897.3
15°	4190.1	3823.7	2914.1	2202.0	1712.2	1300.6	897.3	720.3	679.1	654.4	662.7
17.5°	4420.6	3943.1	2761.8	1942.7	1387.1	827.3	654.4	617.4	596.8	572.1	572.1
20°	4700.4	4021.3	2572.5	1704.0	954.9	613.3	559.8	535.1	502.1	469.2	473.3
22.5°	4972.1	4087.2	2354.3	1399.4	642.1	531.0	469.2	436.3	407.5	374.6	374.6
25°	5243.8	4107.7	2070.3	1004.3	518.6	423.9	366.3	321.0	292.2	263.4	267.5
27.5°	5429.0	3980.1	1802.8	642.1	415.7	321.0	255.2	218.1	193.5	164.6	164.6
30°	5536.0	3745.5	1514.7	452.8	312.8	218.1	152.3	115.2	90.6	70.0	65.9
32.5°	5643.0	3556.2	1189.5	345.7	205.8	115.2	57.6	20.6	0.0	0.0	0.0
35°	5857.0	3342.2	798.5	193.5	70.0	4.1	0.0	0.0	0.0	0.0	0.0
37.5°	5992.9	3045.8	366.3	28.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	6334.5	2897.6	90.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	6890.1	2794.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	7499.3	2753.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	8310.2	2864.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	9166.3	3165.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	10104.7	3449.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	10923.8	3790.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	12430.2	4597.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	15134.4	6182.2	4.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	18180.3	7359.4	45.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	19295.7	7330.6	78.2	4.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	19098.1	6927.2	78.2	4.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	18073.3	6153.4	70.0	8.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	15521.3	5083.2	70.0	12.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	11833.4	3959.6	65.9	16.5	4.1	0.0	0.0	0.0	0.0	0.0	0.0
75°	7141.2	2107.4	53.5	20.6	8.2	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	2844.1	740.9	41.2	16.5	8.2	0.0	0.0	0.0	0.0	0.0	0.0
80°	769.7	222.3	24.7	16.5	12.3	4.1	0.0	0.0	0.0	0.0	0.0
82.5°	201.7	82.3	20.6	16.5	8.2	4.1	0.0	0.0	0.0	0.0	0.0
85°	78.2	32.9	16.5	12.3	12.3	8.2	4.1	0.0	0.0	0.0	0.0
87.5°	24.7	12.3	12.3	8.2	8.2	4.1	4.1	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)