

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: P481698

Luminaire Tested: **IFLD-L-SA8C-740-U-T2-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481698
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8C-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

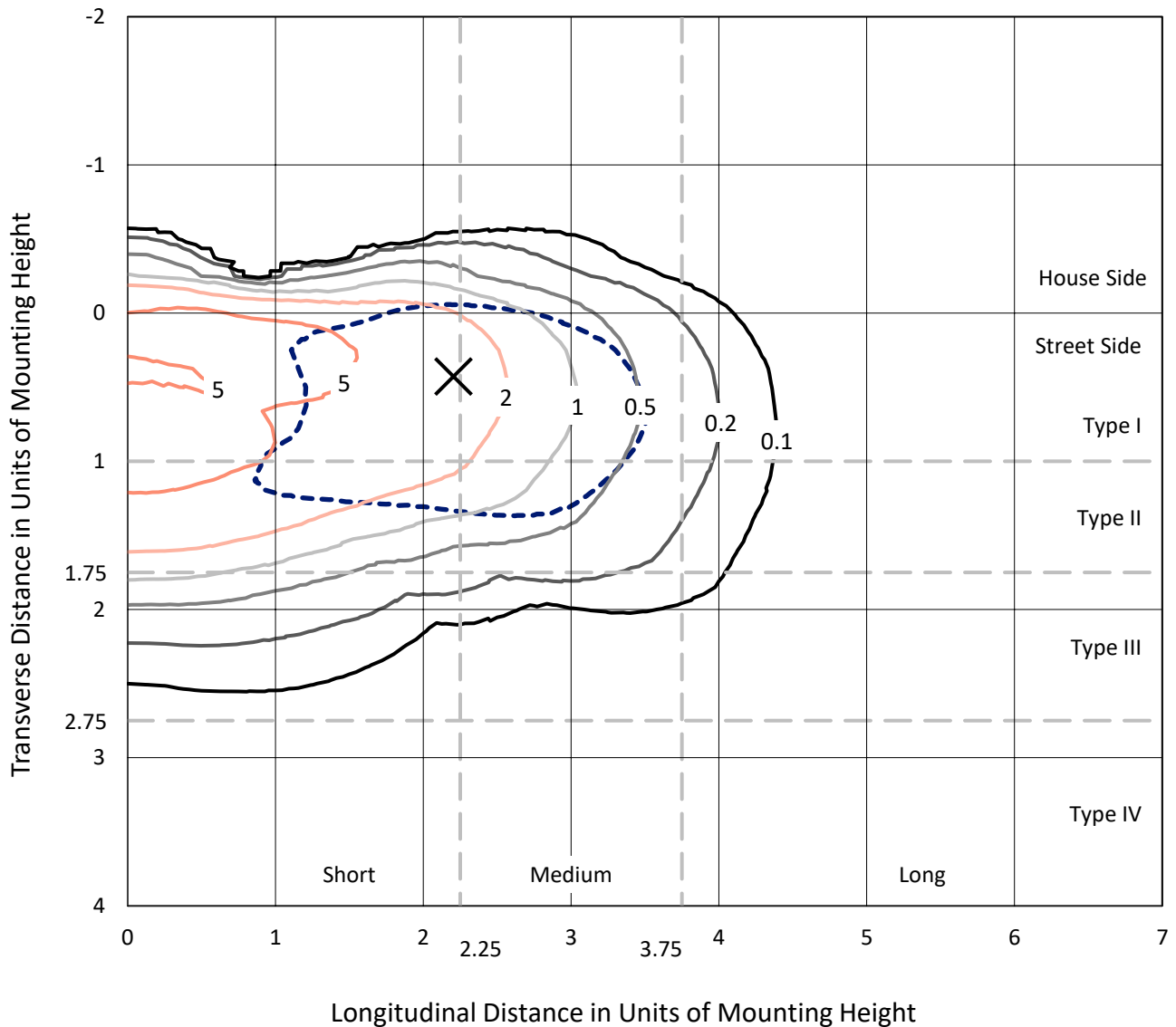
Lumens per Lamp: N/A
Luminaire Lumens: 36485 lumens
Efficiency: N/A
Efficacy: 86.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 420.3
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

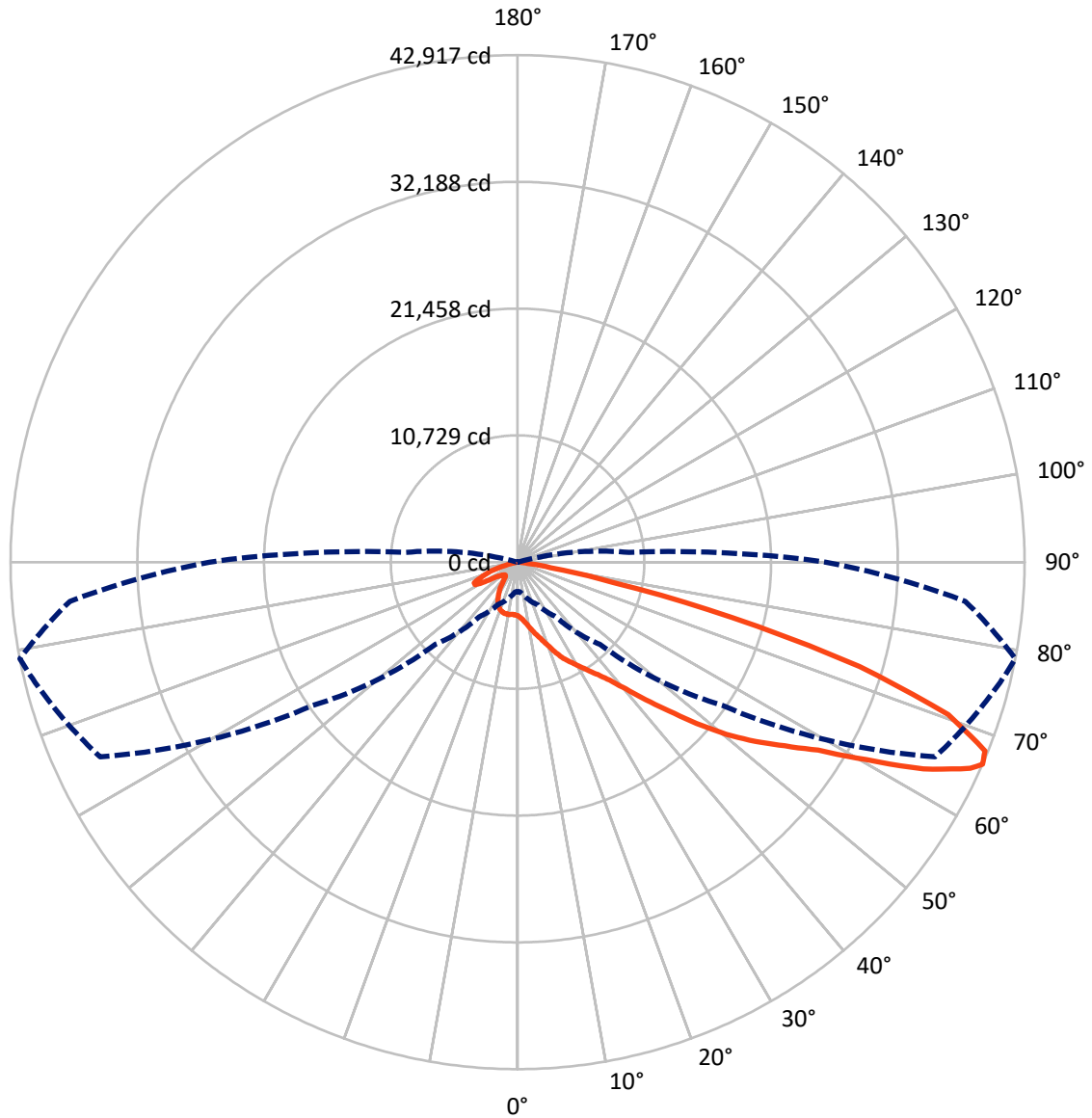
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.6 fc
 Type II - Short - N/A

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CATALOG NUMBER: IFLD-L-SA8C-740-U-T2-HSS

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	2739.5	0.0	2739.5
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	33745.5	0.0	33745.5
	% Fixture	92.5	0.0	92.5
Total	Lumens	36485.0	0.0	36485.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	429.3	1.2
10°-20°	1181.4	3.2
20°-30°	1962.7	5.4
30°-40°	3371.1	9.2
40°-50°	6107.2	16.7
50°-60°	9653.7	26.5
60°-70°	9823.4	26.9
70°-80°	3746.2	10.3
80°-90°	210.0	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°	36485.0	100.0
0°-180°	36485.0	100.0

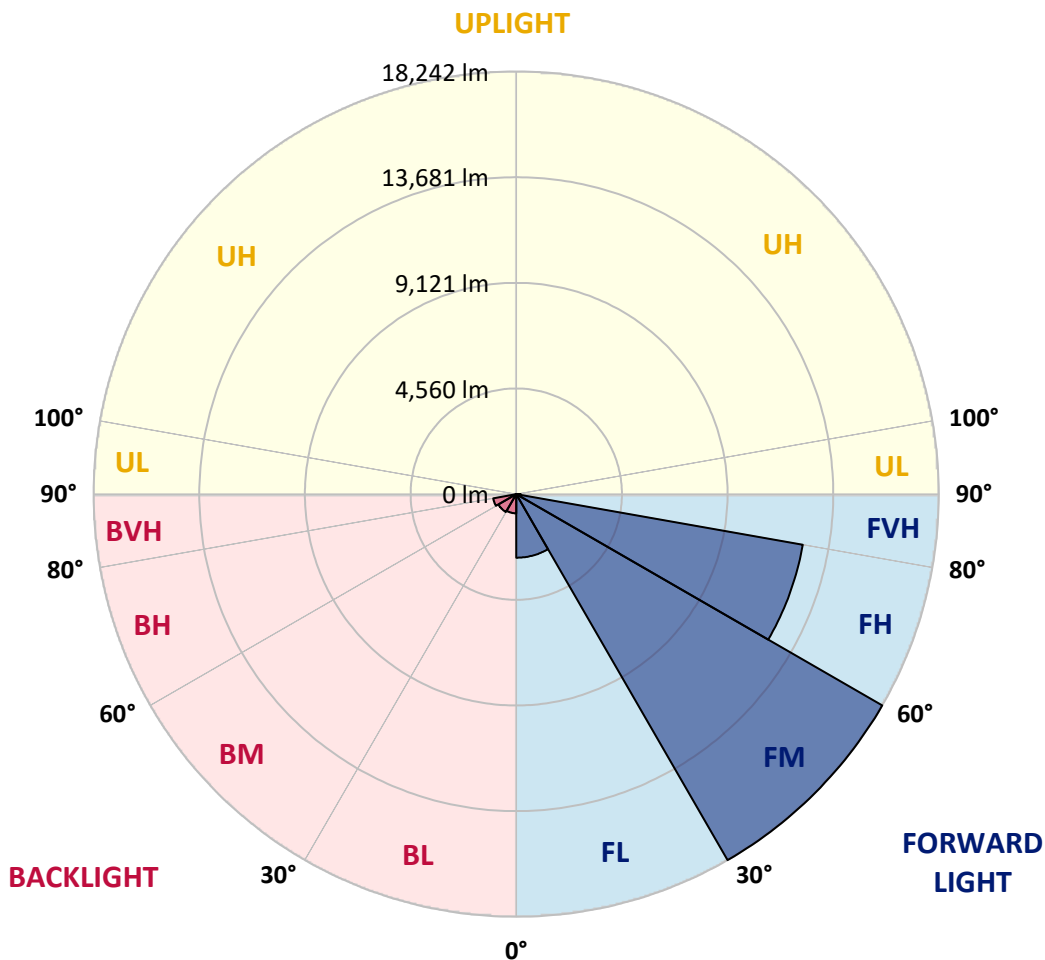


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2744.9	7.5			
FM (30°-60°)	18241.7	50.0			
FH (60°-80°)	12559.7	34.4			G5
FVH (80°-90°)	199.3	0.5			G2/225
BL (0°-30°)	828.5	2.3	B2/1000		
BM (30°-60°)	890.4	2.4	B1/1000		
BH (60°-80°)	1009.9	2.8	B3/2500		G3/2500
BVH (80°-90°)	10.7	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	4539.2	4539.2	4539.2	4539.2	4539.2	4539.2	4539.2	4539.2	4539.2	4539.2	4539.2
2.5°	5141.0	5135.4	5112.9	5073.5	5022.9	5006.0	4932.9	4831.7	4775.4	4713.5	4685.4
5°	5495.4	5467.3	5534.8	5506.6	5517.9	5382.9	5292.9	5219.8	5006.0	4921.7	4786.7
7.5°	5574.1	5602.3	5596.6	5641.6	5686.6	5737.3	5675.4	5568.5	5354.8	5231.0	5084.8
10°	5574.1	5562.9	5607.9	5669.8	5799.1	5911.6	6080.4	5939.7	5776.6	5630.4	5366.0
12.5°	5472.9	5456.0	5501.0	5630.4	5861.0	6091.6	6277.2	6412.2	6181.6	6063.5	5720.4
15°	5163.5	5146.7	5332.3	5562.9	5866.6	6243.5	6631.6	6851.0	6693.5	6507.8	6125.4
17.5°	4781.0	4803.5	5000.4	5382.9	5866.6	6316.6	6811.6	7289.7	7267.2	7030.9	6631.6
20°	4651.7	4668.5	4865.4	5141.0	5692.3	6367.2	7092.8	7767.8	7902.8	7621.5	7098.4
22.5°	4899.2	4882.3	4899.2	5067.9	5574.1	6322.2	7278.4	8313.4	8555.3	8335.9	7711.5
25°	5742.9	5731.6	5591.0	5332.3	5506.6	6221.0	7374.1	8673.4	9230.2	9027.7	8206.5
27.5°	6980.3	6935.3	6716.0	6176.0	5821.6	6282.9	7531.6	9022.1	9820.8	9590.2	8650.9
30°	8307.8	8200.9	7914.0	7239.1	6637.2	6513.5	7621.5	9280.9	10478.9	10186.4	9039.0
32.5°	9224.6	9365.2	9275.2	8589.0	7666.5	7047.8	7767.8	9607.1	11086.4	10895.2	9702.7
35°	10642.0	10805.2	10428.3	9820.8	8892.7	7897.2	8077.2	9871.5	12020.1	11699.5	10321.4
37.5°	12430.7	12554.5	12284.5	11131.4	10152.7	8943.4	8712.8	10422.7	12824.4	12672.6	11114.5
40°	13330.7	13926.9	13544.4	12503.8	11452.0	10405.8	9764.6	11069.5	14225.0	14101.3	12211.4
42.5°	14573.7	14871.9	14675.0	13904.4	12807.6	11969.5	11063.9	12329.5	15923.7	15923.7	13696.3
45°	15889.9	15901.2	15889.9	15260.0	14286.9	13853.8	12818.8	13910.0	17751.7	17954.2	15473.7
47.5°	16969.9	17307.4	17279.3	16902.4	16148.7	15985.6	14573.7	15710.0	20046.6	20401.0	17206.1
50°	17526.7	17903.6	18016.1	18213.0	18179.2	18522.3	16491.8	17796.7	22026.6	22898.4	19433.5
52.5°	17374.9	17403.0	18094.8	18871.1	20108.5	21070.3	18803.6	20164.8	24344.0	25204.5	21154.7
55°	16131.8	16024.9	17448.0	18336.7	20896.0	22628.4	22004.1	23117.8	26149.5	27460.1	22932.1
57.5°	13403.8	13431.9	14748.1	16553.7	20311.0	23247.1	25423.9	26976.3	28680.6	30002.5	25429.5
60°	9252.7	9219.0	10692.7	12779.5	16874.3	22094.1	27392.6	31976.8	32066.7	33939.8	29912.5
62.5°	5202.9	5214.2	6333.5	8116.5	11806.4	18055.5	27297.0	37286.5	36904.0	38546.5	35008.5
65°	2947.4	3020.5	3791.1	4809.2	7070.3	12121.4	23477.7	39401.4	40633.3	42095.7	38102.1
66°	2491.8	2542.4	3200.5	3971.1	5641.6	9832.1	21132.2	38990.8	41803.2	42916.9	38040.2
67.5°	1929.3	1996.8	2548.0	3149.9	4139.8	6806.0	17009.3	36949.0	42016.9	42669.4	36965.9
70°	1321.8	1366.8	1788.7	2390.5	2829.3	3481.7	10169.6	30548.1	38124.6	38675.8	32128.6
72.5°	928.1	950.6	1254.3	1811.2	2176.8	1991.2	5045.4	21734.1	29175.6	30250.0	24990.8
75°	669.3	691.8	860.6	1299.3	1698.7	1304.9	2311.8	13881.9	17892.4	18736.1	15051.9
77.5°	483.7	511.9	585.0	838.1	1231.8	916.8	1136.2	7250.3	8437.1	8290.9	6474.1
80°	292.5	320.6	433.1	540.0	900.0	646.8	624.3	3026.1	2992.4	2840.5	2036.2
82.5°	135.0	157.5	230.6	365.6	630.0	450.0	298.1	1080.0	945.0	866.2	573.7
85°	39.4	50.6	135.0	275.6	320.6	219.4	180.0	371.2	388.1	331.9	191.2
87.5°	0.0	5.6	61.9	67.5	95.6	73.1	67.5	95.6	180.0	146.2	61.9
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°	4539.2	4539.2	4539.2	4539.2	4539.2	4539.2	4539.2	4539.2	4539.2	4539.2	4539.2
2.5°	4584.2	4544.8	4449.2	4302.9	4173.6	4106.1	4010.5	3926.1	3881.1	3875.5	3869.8
5°	4696.7	4589.8	4359.2	4094.8	3898.0	3684.2	3538.0	3431.1	3329.9	3234.2	3290.5
7.5°	4848.5	4679.8	4302.9	3959.8	3532.3	3256.7	2998.0	2846.1	2756.1	2671.8	2660.5
10°	5084.8	4871.0	4263.6	3644.8	3155.5	2750.5	2486.1	2266.8	2143.0	1996.8	2053.0
12.5°	5405.4	5022.9	4117.3	3358.0	2728.0	2300.5	1923.7	1569.3	1372.4	1220.6	1226.2
15°	5726.0	5225.4	3982.3	3009.2	2339.9	1777.4	1226.2	984.3	928.1	894.3	905.6
17.5°	6041.0	5388.5	3774.2	2654.9	1895.5	1130.6	894.3	843.7	815.6	781.8	781.8
20°	6423.5	5495.4	3515.5	2328.7	1304.9	838.1	765.0	731.2	686.2	641.2	646.8
22.5°	6794.7	5585.4	3217.4	1912.4	877.5	725.6	641.2	596.2	556.9	511.9	511.9
25°	7165.9	5613.5	2829.3	1372.4	708.7	579.4	500.6	438.7	399.4	360.0	365.6
27.5°	7419.1	5439.1	2463.6	877.5	568.1	438.7	348.7	298.1	264.4	225.0	225.0
30°	7565.3	5118.5	2069.9	618.7	427.5	298.1	208.1	157.5	123.7	95.6	90.0
32.5°	7711.5	4859.8	1625.6	472.5	281.2	157.5	78.7	28.1	0.0	0.0	0.0
35°	8004.0	4567.3	1091.2	264.4	95.6	5.6	0.0	0.0	0.0	0.0	0.0
37.5°	8189.6	4162.3	500.6	39.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	8656.5	3959.8	123.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	9415.8	3819.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	10248.3	3763.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	11356.4	3914.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	12526.3	4325.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	13808.8	4713.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	14928.1	5180.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	16986.8	6282.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	20682.2	8448.4	5.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	24844.6	10057.1	61.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	26368.9	10017.7	106.9	5.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	26098.9	9466.5	106.9	5.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	24698.3	8409.0	95.6	11.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	21211.0	6946.6	95.6	16.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	16171.2	5411.0	90.0	22.5	5.6	0.0	0.0	0.0	0.0	0.0	0.0
75°	9759.0	2879.9	73.1	28.1	11.2	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	3886.7	1012.5	56.2	22.5	11.2	0.0	0.0	0.0	0.0	0.0	0.0
80°	1051.8	303.7	33.7	22.5	16.9	5.6	0.0	0.0	0.0	0.0	0.0
82.5°	275.6	112.5	28.1	22.5	11.2	5.6	0.0	0.0	0.0	0.0	0.0
85°	106.9	45.0	22.5	16.9	16.9	11.2	5.6	0.0	0.0	0.0	0.0
87.5°	33.7	16.9	16.9	11.2	11.2	5.6	5.6	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)