

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: P481566

Luminaire Tested: **IFLD-S-SA6C-727-U-T2-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481566
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6C-727-U-T2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens with House Side Shield
Light Source: (96) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

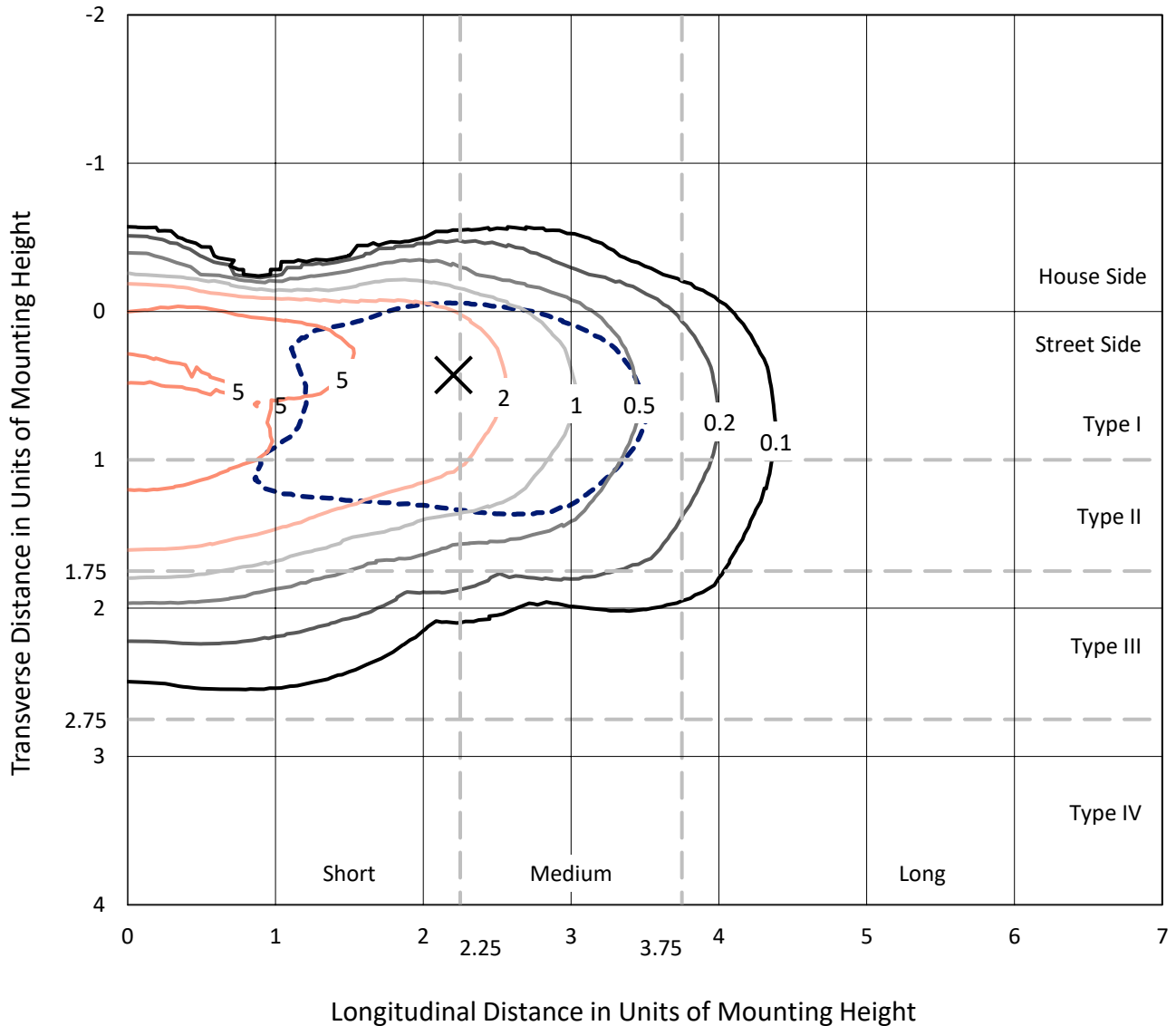
Lumens per Lamp: N/A
Luminaire Lumens: 25024.6 lumens
Efficiency: N/A
Efficacy: 77.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 321.5
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

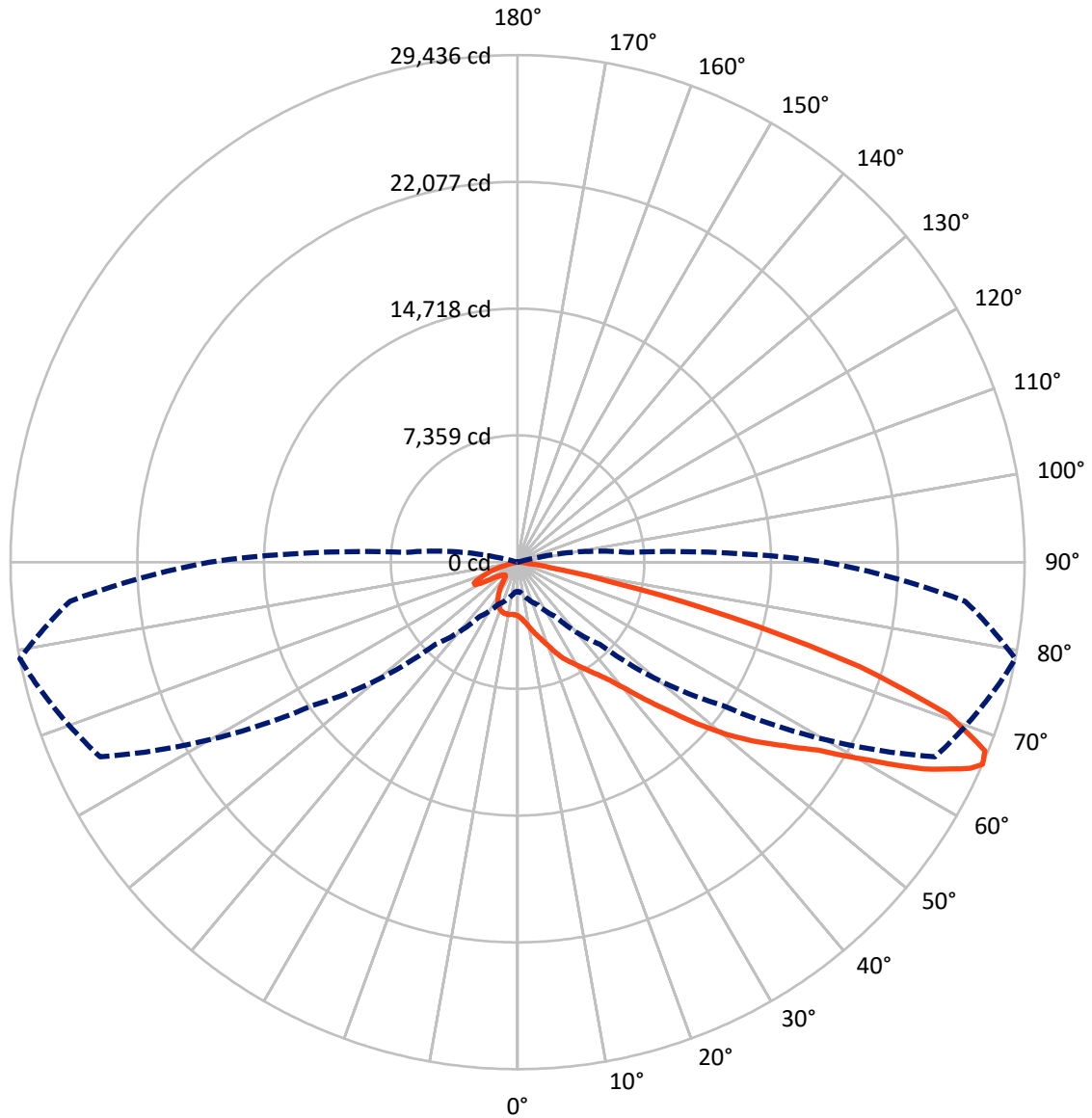
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 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	1879.0	0.0	1879.0
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	23145.6	0.0	23145.6
	% Fixture	92.5	0.0	92.5
Total	Lumens	25024.6	0.0	25024.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	294.4	1.2
10°-20°	810.3	3.2
20°-30°	1346.2	5.4
30°-40°	2312.2	9.2
40°-50°	4188.9	16.7
50°-60°	6621.4	26.5
60°-70°	6737.7	26.9
70°-80°	2569.4	10.3
80°-90°	144.1	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°	25024.6	100.0
0°-180°	25024.6	100.0

Coefficient of Utilization

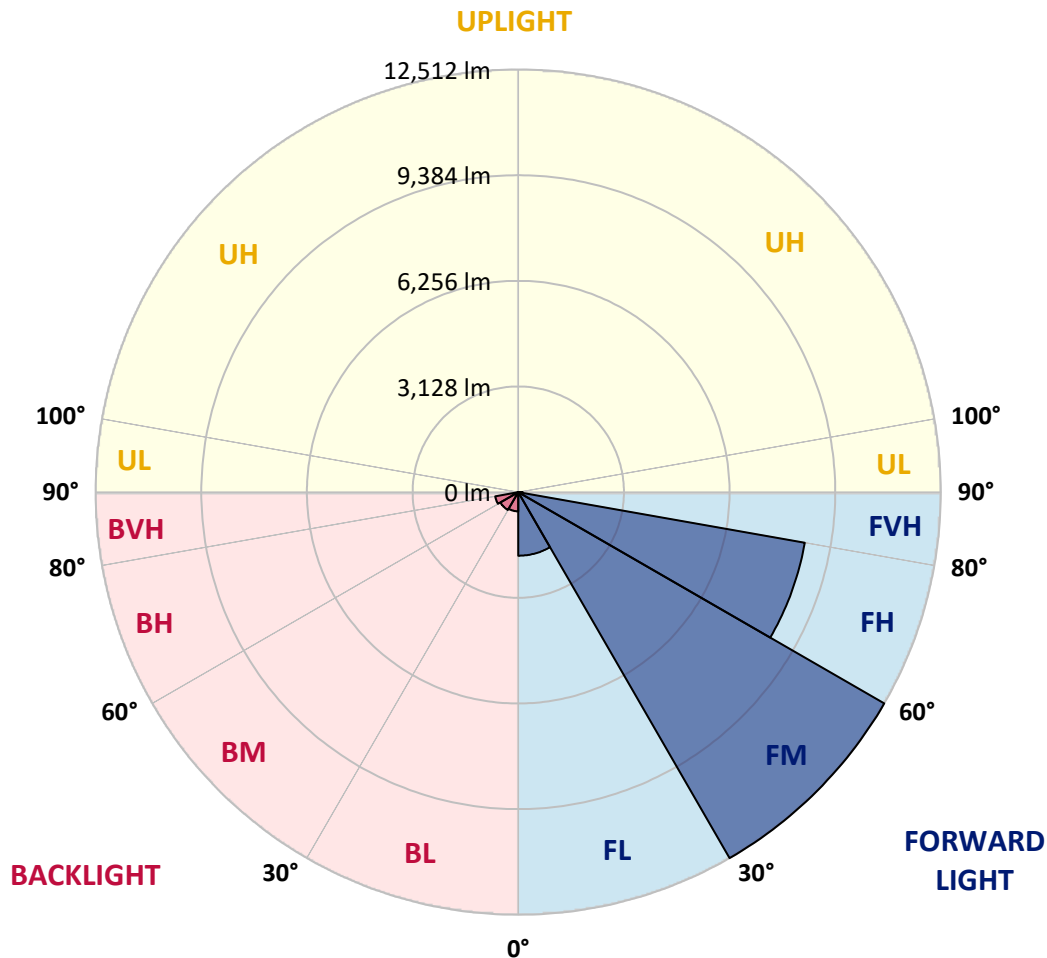


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1882.7	7.5			
FM (30°-60°)	12511.8	50.0			
FH (60°-80°)	8614.5	34.4			G4/12000
FVH (80°-90°)	136.7	0.5			G2/225
BL (0°-30°)	568.3	2.3	B2/1000		
BM (30°-60°)	610.7	2.4	B1/1000		
BH (60°-80°)	692.7	2.8	B2/1000		G2/1000
BVH (80°-90°)	7.4	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°	3113.4	3113.4	3113.4	3113.4	3113.4	3113.4	3113.4	3113.4	3113.4	3113.4	3113.4
2.5°	3526.2	3522.3	3506.9	3479.9	3445.2	3433.6	3383.4	3314.0	3275.4	3233.0	3213.7
5°	3769.2	3749.9	3796.2	3776.9	3784.7	3692.1	3630.3	3580.2	3433.6	3375.7	3283.1
7.5°	3823.2	3842.5	3838.7	3869.5	3900.4	3935.1	3892.7	3819.4	3672.8	3587.9	3487.6
10°	3823.2	3815.5	3846.4	3888.8	3977.5	4054.7	4170.4	4074.0	3962.1	3861.8	3680.5
12.5°	3753.8	3742.2	3773.1	3861.8	4020.0	4178.2	4305.5	4398.1	4239.9	4158.9	3923.5
15°	3541.6	3530.0	3657.3	3815.5	4023.8	4282.3	4548.5	4699.0	4591.0	4463.6	4201.3
17.5°	3279.3	3294.7	3429.7	3692.1	4023.8	4332.5	4672.0	4999.9	4984.5	4822.4	4548.5
20°	3190.5	3202.1	3337.1	3526.2	3904.2	4367.2	4864.9	5327.8	5420.4	5227.5	4868.7
22.5°	3360.3	3348.7	3360.3	3476.0	3823.2	4336.3	4992.2	5702.1	5867.9	5717.5	5289.3
25°	3939.0	3931.3	3834.8	3657.3	3776.9	4266.9	5057.8	5949.0	6330.9	6192.0	5628.8
27.5°	4787.7	4756.9	4606.4	4236.0	3993.0	4309.3	5165.8	6188.2	6736.0	6577.8	5933.5
30°	5698.2	5624.9	5428.1	4965.2	4552.4	4467.5	5227.5	6365.6	7187.4	6986.8	6199.7
32.5°	6327.0	6423.5	6361.8	5891.1	5258.4	4834.0	5327.8	6589.4	7604.0	7472.9	6655.0
35°	7299.2	7411.1	7152.6	6736.0	6099.4	5416.6	5540.0	6770.7	8244.4	8024.5	7079.3
37.5°	8526.1	8610.9	8425.8	7634.9	6963.6	6134.1	5976.0	7148.8	8796.1	8692.0	7623.3
40°	9143.3	9552.3	9289.9	8576.2	7854.8	7137.2	6697.4	7592.4	9756.8	9671.9	8375.6
42.5°	9996.0	10200.4	10065.4	9536.9	8784.6	8209.7	7588.6	8456.6	10921.9	10921.9	9394.1
45°	10898.7	10906.4	10898.7	10466.6	9799.2	9502.1	8792.3	9540.7	12175.7	12314.6	10613.2
47.5°	11639.4	11870.9	11851.6	11593.1	11076.2	10964.3	9996.0	10775.3	13749.7	13992.8	11801.5
50°	12021.4	12279.9	12357.0	12492.0	12468.9	12704.2	11311.5	12206.6	15107.7	15705.7	13329.2
52.5°	11917.2	11936.5	12411.0	12943.4	13792.2	14451.9	12897.1	13830.8	16697.2	17287.5	14509.8
55°	11064.6	10991.3	11967.4	12576.9	14332.3	15520.5	15092.3	15856.2	17935.6	18834.5	15728.9
57.5°	9193.5	9212.8	10115.5	11354.0	13931.1	15944.9	17437.9	18502.7	19671.7	20578.3	17441.8
60°	6346.3	6323.2	7334.0	8765.3	11573.9	15154.0	18788.2	21932.5	21994.2	23278.9	20516.6
62.5°	3568.6	3576.3	4344.1	5567.0	8097.8	12384.0	18722.6	25574.4	25312.0	26438.5	24011.9
65°	2021.6	2071.7	2600.3	3298.5	4849.4	8313.9	16103.1	27025.0	27869.8	28872.9	26133.8
66°	1709.1	1743.8	2195.2	2723.7	3869.5	6743.7	14494.3	26743.3	28672.3	29436.2	26091.3
67.5°	1323.3	1369.6	1747.7	2160.5	2839.5	4668.1	11666.4	25342.9	28818.9	29266.4	25354.5
70°	906.6	937.5	1226.8	1639.6	1940.5	2388.1	6975.2	20952.5	26149.2	26527.3	22036.6
72.5°	636.6	652.0	860.3	1242.3	1493.0	1365.7	3460.6	14907.1	20011.2	20748.1	17140.9
75°	459.1	474.5	590.3	891.2	1165.1	895.0	1585.6	9521.4	12272.1	12850.8	10323.9
77.5°	331.8	351.1	401.2	574.8	844.9	628.8	779.3	4972.9	5786.9	5686.6	4440.5
80°	200.6	219.9	297.1	370.4	617.3	443.7	428.2	2075.6	2052.4	1948.3	1396.6
82.5°	92.6	108.0	158.2	250.8	432.1	308.6	204.5	740.7	648.1	594.1	393.5
85°	27.0	34.7	92.6	189.0	219.9	150.5	123.5	254.6	266.2	227.6	131.2
87.5°	0.0	3.9	42.4	46.3	65.6	50.2	46.3	65.6	123.5	100.3	42.4
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°	3113.4	3113.4	3113.4	3113.4	3113.4	3113.4	3113.4	3113.4	3113.4	3113.4	3113.4
2.5°	3144.2	3117.2	3051.6	2951.3	2862.6	2816.3	2750.7	2692.9	2662.0	2658.1	2654.3
5°	3221.4	3148.1	2989.9	2808.6	2673.6	2527.0	2426.7	2353.4	2283.9	2218.3	2256.9
7.5°	3325.6	3209.8	2951.3	2716.0	2422.8	2233.8	2056.3	1952.1	1890.4	1832.5	1824.8
10°	3487.6	3341.0	2924.3	2500.0	2164.3	1886.5	1705.2	1554.8	1469.9	1369.6	1408.2
12.5°	3707.5	3445.2	2824.0	2303.2	1871.1	1577.9	1319.4	1076.4	941.3	837.2	841.0
15°	3927.4	3584.0	2731.4	2064.0	1604.9	1219.1	841.0	675.1	636.6	613.4	621.1
17.5°	4143.4	3695.9	2588.7	1821.0	1300.1	775.4	613.4	578.7	559.4	536.3	536.3
20°	4405.8	3769.2	2411.2	1597.2	895.0	574.8	524.7	501.5	470.7	439.8	443.7
22.5°	4660.4	3830.9	2206.7	1311.7	601.8	497.7	439.8	408.9	381.9	351.1	351.1
25°	4915.0	3850.2	1940.5	941.3	486.1	397.4	343.4	300.9	273.9	246.9	250.8
27.5°	5088.6	3730.6	1689.8	601.8	389.7	300.9	239.2	204.5	181.3	154.3	154.3
30°	5188.9	3510.7	1419.7	424.4	293.2	204.5	142.7	108.0	84.9	65.6	61.7
32.5°	5289.3	3333.3	1114.9	324.1	192.9	108.0	54.0	19.3	0.0	0.0	0.0
35°	5489.9	3132.7	748.4	181.3	65.6	3.9	0.0	0.0	0.0	0.0	0.0
37.5°	5617.2	2854.9	343.4	27.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	5937.4	2716.0	84.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	6458.2	2619.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	7029.2	2581.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	7789.2	2685.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	8591.7	2966.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	9471.3	3233.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	10239.0	3553.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	11651.0	4309.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	14185.7	5794.6	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	17040.6	6898.0	42.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	18086.1	6871.0	73.3	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	17900.9	6492.9	73.3	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	16940.3	5767.6	65.6	7.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	14548.3	4764.6	65.6	11.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	11091.6	3711.3	61.7	15.4	3.9	0.0	0.0	0.0	0.0	0.0	0.0
75°	6693.5	1975.3	50.2	19.3	7.7	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	2665.8	694.4	38.6	15.4	7.7	0.0	0.0	0.0	0.0	0.0	0.0
80°	721.4	208.3	23.1	15.4	11.6	3.9	0.0	0.0	0.0	0.0	0.0
82.5°	189.0	77.2	19.3	15.4	7.7	3.9	0.0	0.0	0.0	0.0	0.0
85°	73.3	30.9	15.4	11.6	11.6	7.7	3.9	0.0	0.0	0.0	0.0
87.5°	23.1	11.6	11.6	7.7	7.7	3.9	3.9	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)