

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: P481816

Luminaire Tested: **IFLD-L-SA8D-827-U-T2-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481816
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8D-827-U-T2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens with House Side Shield
Light Source: (128) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

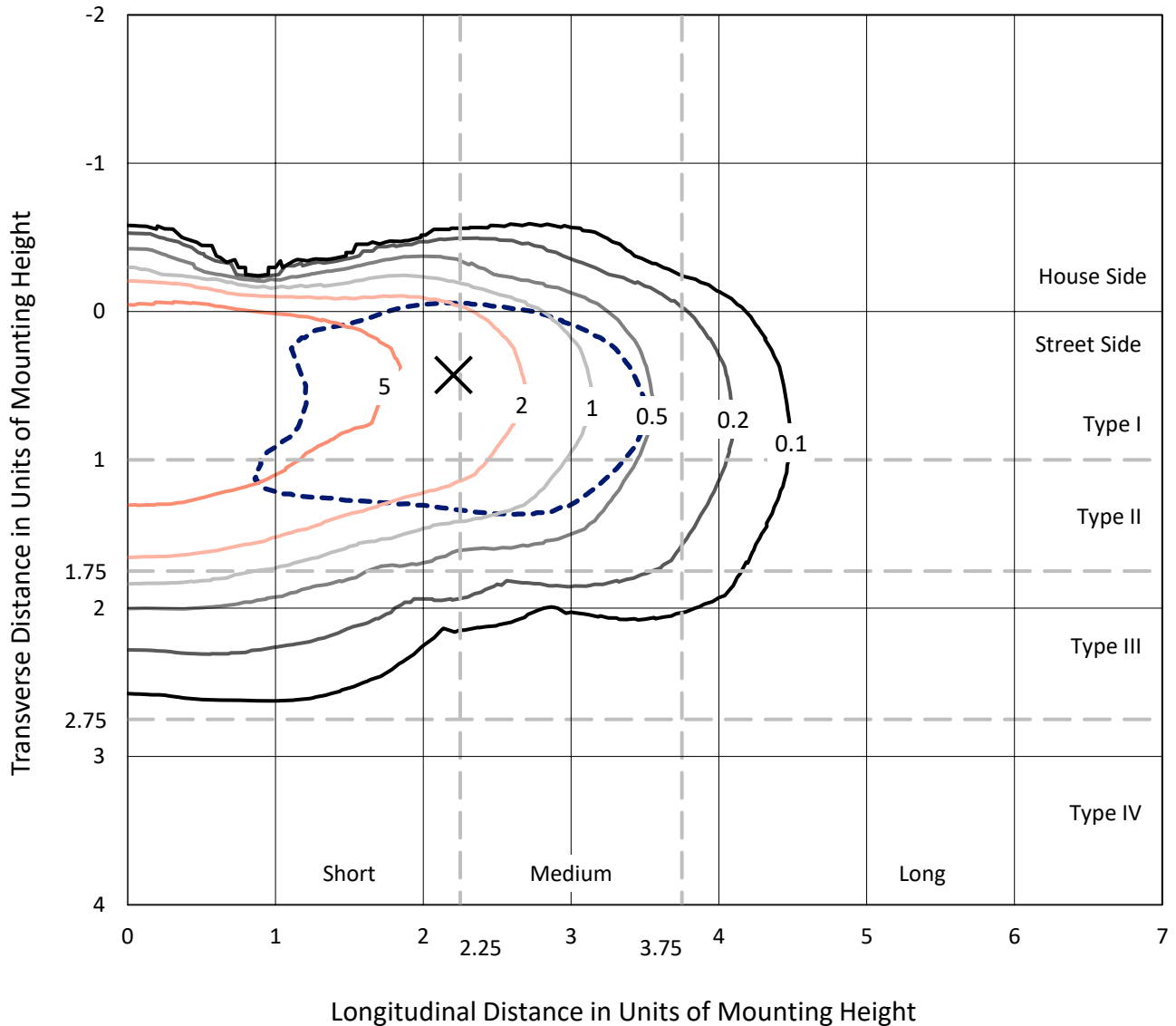
Lumens per Lamp: N/A
Luminaire Lumens: 29511.3 lumens
Efficiency: N/A
Efficacy: 60.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 488.3
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

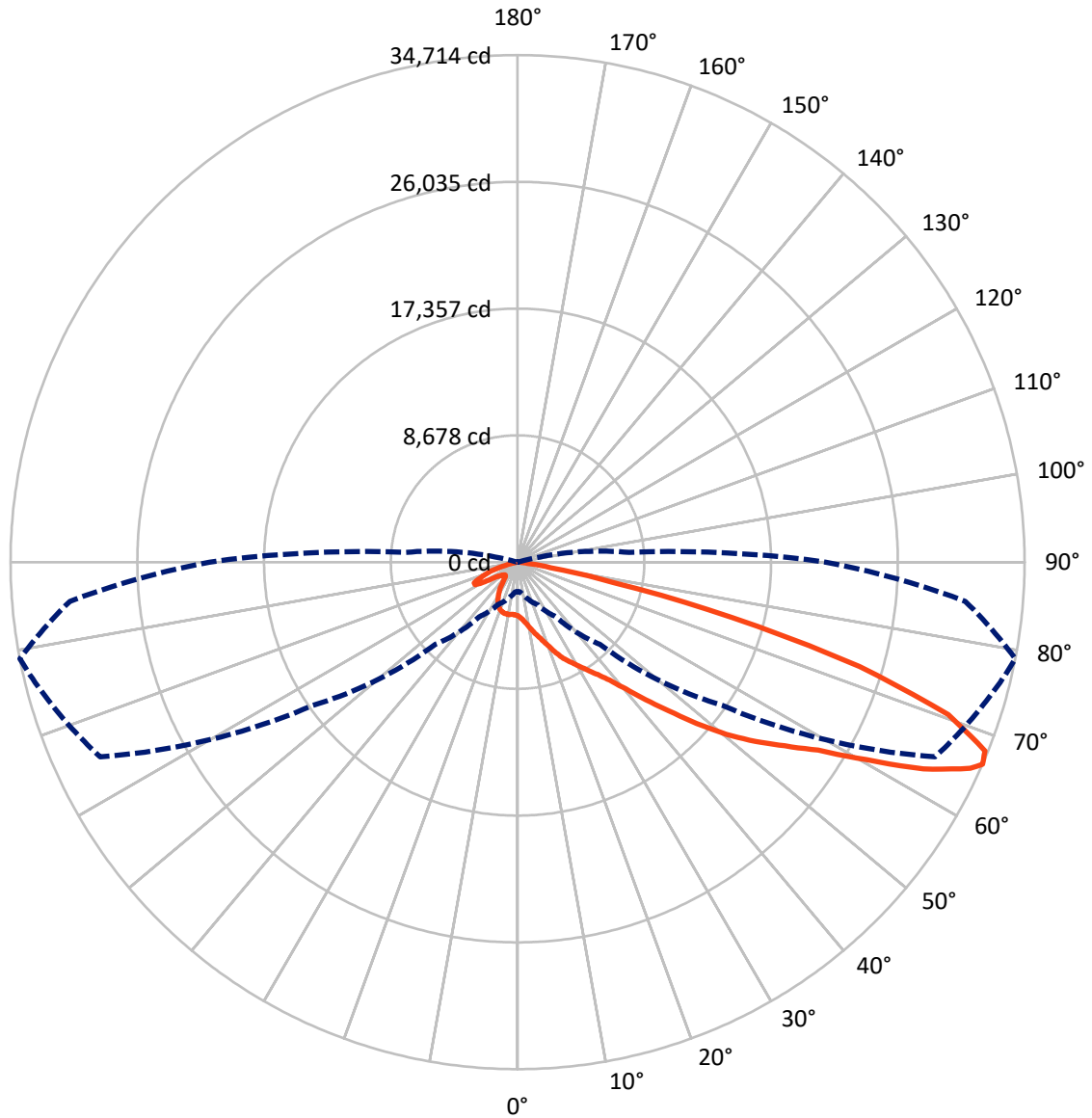
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.8 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	2215.9	0.0	2215.9
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	27295.4	0.0	27295.4
	% Fixture	92.5	0.0	92.5
Total	Lumens	29511.3	0.0	29511.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	347.2	1.2
10°-20°	955.6	3.2
20°-30°	1587.5	5.4
30°-40°	2726.8	9.2
40°-50°	4939.9	16.7
50°-60°	7808.5	26.5
60°-70°	7945.8	26.9
70°-80°	3030.1	10.3
80°-90°	169.9	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°	29511.3	100.0
0°-180°	29511.3	100.0

Coefficient of Utilization

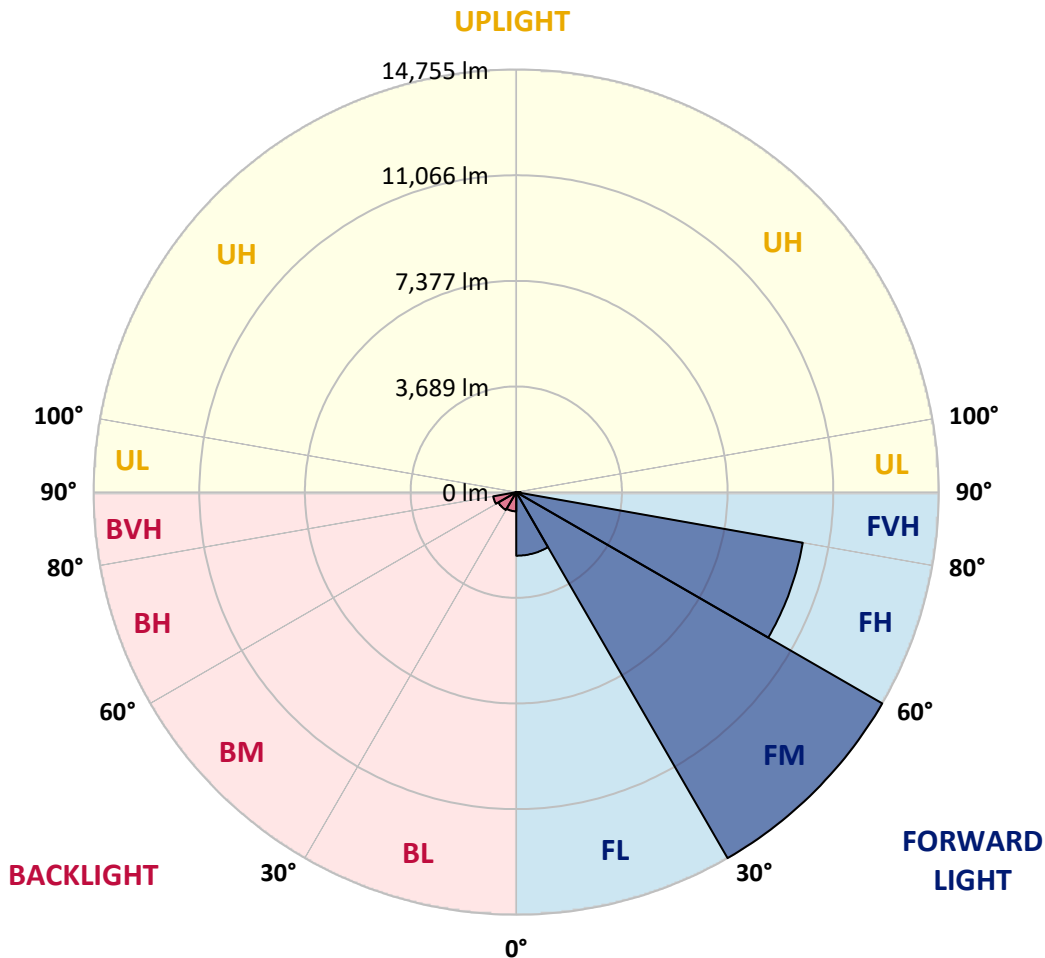


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2220.2	7.5			
FM (30°-60°)	14755.0	50.0			
FH (60°-80°)	10159.0	34.4			G4/12000
FVH (80°-90°)	161.2	0.5			G2/225
BL (0°-30°)	670.1	2.3	B2/1000		
BM (30°-60°)	720.2	2.4	B1/1000		
BH (60°-80°)	816.9	2.8	B2/1000		G2/1000
BVH (80°-90°)	8.7	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°	3671.6	3671.6	3671.6	3671.6	3671.6	3671.6	3671.6	3671.6	3671.6	3671.6	3671.6
2.5°	4158.4	4153.8	4135.6	4103.8	4062.8	4049.2	3990.0	3908.1	3862.6	3812.6	3789.9
5°	4445.0	4422.3	4476.9	4454.1	4463.2	4354.0	4281.2	4222.1	4049.2	3980.9	3871.7
7.5°	4508.7	4531.4	4526.9	4563.3	4599.7	4640.6	4590.6	4504.1	4331.3	4231.2	4112.9
10°	4508.7	4499.6	4536.0	4586.0	4690.7	4781.7	4918.2	4804.4	4672.5	4554.2	4340.4
12.5°	4426.8	4413.2	4449.6	4554.2	4740.7	4927.3	5077.4	5186.6	5000.1	4904.5	4627.0
15°	4176.6	4162.9	4313.1	4499.6	4745.3	5050.1	5364.0	5541.5	5414.1	5263.9	4954.6
17.5°	3867.2	3885.4	4044.6	4354.0	4745.3	5109.3	5509.6	5896.3	5878.1	5687.1	5364.0
20°	3762.6	3776.2	3935.4	4158.4	4604.2	5150.2	5737.1	6283.1	6392.3	6164.8	5741.7
22.5°	3962.7	3949.1	3962.7	4099.2	4508.7	5113.8	5887.2	6724.4	6920.0	6742.6	6237.6
25°	4645.2	4636.1	4522.3	4313.1	4454.1	5031.9	5964.6	7015.6	7466.0	7302.2	6637.9
27.5°	5646.1	5609.7	5432.3	4995.5	4708.9	5082.0	6092.0	7297.6	7943.7	7757.1	6997.4
30°	6719.8	6633.4	6401.4	5855.4	5368.6	5268.5	6164.8	7506.9	8476.0	8239.4	7311.3
32.5°	7461.4	7575.2	7502.4	6947.3	6201.2	5700.7	6283.1	7770.8	8967.4	8812.7	7848.1
35°	8607.9	8739.9	8435.0	7943.7	7193.0	6387.7	6533.3	7984.6	9722.6	9463.3	8348.6
37.5°	10054.7	10154.8	9936.4	9003.7	8212.1	7233.9	7047.4	8430.5	10373.2	10250.4	8990.1
40°	10782.7	11264.9	10955.5	10113.9	9263.1	8416.8	7898.2	8953.7	11506.1	11406.0	9877.3
42.5°	11788.1	12029.3	11870.0	11246.7	10359.5	9681.6	8949.2	9972.8	12880.0	12880.0	11078.4
45°	12852.8	12861.8	12852.8	12343.2	11556.1	11205.8	10368.6	11251.3	14358.7	14522.5	12516.1
47.5°	13726.3	13999.3	13976.5	13671.7	13062.0	12930.1	11788.1	12707.2	16214.9	16501.6	13917.4
50°	14176.7	14481.5	14572.5	14731.8	14704.5	14982.0	13339.6	14395.1	17816.4	18521.6	15719.0
52.5°	14053.9	14076.6	14636.2	15264.1	16265.0	17043.0	15209.5	16310.5	19690.9	20387.0	17111.2
55°	13048.4	12961.9	14113.0	14831.8	16901.9	18303.2	17798.2	18699.0	21151.3	22211.4	18548.9
57.5°	10841.8	10864.6	11929.2	13389.6	16428.8	18803.7	20564.4	21820.1	23198.6	24267.8	20568.9
60°	7484.2	7456.9	8648.9	10336.8	13648.9	17871.0	22156.8	25864.7	25937.5	27452.6	24195.0
62.5°	4208.4	4217.5	5122.9	6565.1	9549.7	14604.4	22079.4	30159.6	29850.2	31178.7	28317.0
65°	2384.0	2443.2	3066.5	3889.9	5718.9	9804.5	18990.2	31870.3	32866.6	34049.6	30819.3
66°	2015.5	2056.4	2588.7	3212.1	4563.3	7952.8	17093.0	31538.1	33813.0	34713.8	30769.3
67.5°	1560.5	1615.1	2061.0	2547.8	3348.5	5505.1	13758.1	29886.6	33985.9	34513.6	29900.3
70°	1069.2	1105.6	1446.8	1933.6	2288.5	2816.2	8225.8	24709.1	30837.5	31283.4	25987.6
72.5°	750.7	768.9	1014.6	1465.0	1760.7	1610.6	4081.0	17579.8	23599.0	24468.0	20214.1
75°	541.4	559.6	696.1	1051.0	1374.0	1055.5	1869.9	11228.5	14472.4	15154.9	12174.9
77.5°	391.3	414.0	473.2	677.9	996.4	741.6	919.0	5864.5	6824.5	6706.2	5236.6
80°	236.6	259.3	350.3	436.8	727.9	523.2	505.0	2447.7	2420.4	2297.6	1647.0
82.5°	109.2	127.4	186.5	295.7	509.6	364.0	241.1	873.5	764.3	700.6	464.1
85°	31.8	40.9	109.2	222.9	259.3	177.4	145.6	300.3	313.9	268.4	154.7
87.5°	0.0	4.5	50.0	54.6	77.3	59.1	54.6	77.3	145.6	118.3	50.0
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°	3671.6	3671.6	3671.6	3671.6	3671.6	3671.6	3671.6	3671.6	3671.6	3671.6	3671.6
2.5°	3708.0	3676.1	3598.8	3480.5	3375.8	3321.2	3243.9	3175.7	3139.3	3134.7	3130.2
5°	3799.0	3712.5	3526.0	3312.1	3152.9	2980.0	2861.7	2775.3	2693.4	2616.0	2661.5
7.5°	3921.8	3785.3	3480.5	3203.0	2857.2	2634.2	2425.0	2302.1	2229.3	2161.1	2152.0
10°	4112.9	3940.0	3448.6	2948.2	2552.4	2224.8	2010.9	1833.5	1733.4	1615.1	1660.6
12.5°	4372.2	4062.8	3330.3	2716.1	2206.6	1860.8	1556.0	1269.4	1110.1	987.3	991.8
15°	4631.5	4226.6	3221.1	2434.1	1892.7	1437.7	991.8	796.2	750.7	723.4	732.5
17.5°	4886.3	4358.6	3052.8	2147.4	1533.2	914.5	723.4	682.4	659.7	632.4	632.4
20°	5195.7	4445.0	2843.5	1883.6	1055.5	677.9	618.8	591.5	555.1	518.7	523.2
22.5°	5496.0	4517.8	2602.4	1546.9	709.7	586.9	518.7	482.3	450.4	414.0	414.0
25°	5796.2	4540.5	2288.5	1110.1	573.3	468.6	404.9	354.9	323.0	291.2	295.7
27.5°	6001.0	4399.5	1992.7	709.7	459.5	354.9	282.1	241.1	213.8	182.0	182.0
30°	6119.3	4140.2	1674.3	500.5	345.8	241.1	168.3	127.4	100.1	77.3	72.8
32.5°	6237.6	3930.9	1314.8	382.2	227.5	127.4	63.7	22.7	0.0	0.0	0.0
35°	6474.1	3694.3	882.6	213.8	77.3	4.5	0.0	0.0	0.0	0.0	0.0
37.5°	6624.3	3366.7	404.9	31.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	7001.9	3203.0	100.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	7616.1	3089.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	8289.5	3043.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	9185.7	3166.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	10132.1	3498.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	11169.4	3812.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	12074.8	4190.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	13739.9	5082.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	16729.0	6833.6	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	20095.8	8134.8	50.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	21328.7	8102.9	86.4	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	21110.4	7657.1	86.4	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	19977.5	6801.7	77.3	9.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	17156.7	5618.8	77.3	13.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	13080.2	4376.8	72.8	18.2	4.5	0.0	0.0	0.0	0.0	0.0	0.0
75°	7893.6	2329.4	59.1	22.7	9.1	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	3143.8	818.9	45.5	18.2	9.1	0.0	0.0	0.0	0.0	0.0	0.0
80°	850.8	245.7	27.3	18.2	13.6	4.5	0.0	0.0	0.0	0.0	0.0
82.5°	222.9	91.0	22.7	18.2	9.1	4.5	0.0	0.0	0.0	0.0	0.0
85°	86.4	36.4	18.2	13.6	13.6	9.1	4.5	0.0	0.0	0.0	0.0
87.5°	27.3	13.6	13.6	9.1	9.1	4.5	4.5	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)