

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: P481577

Luminaire Tested: **IFLD-L-SA7D-727-U-T2-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481577
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7D-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

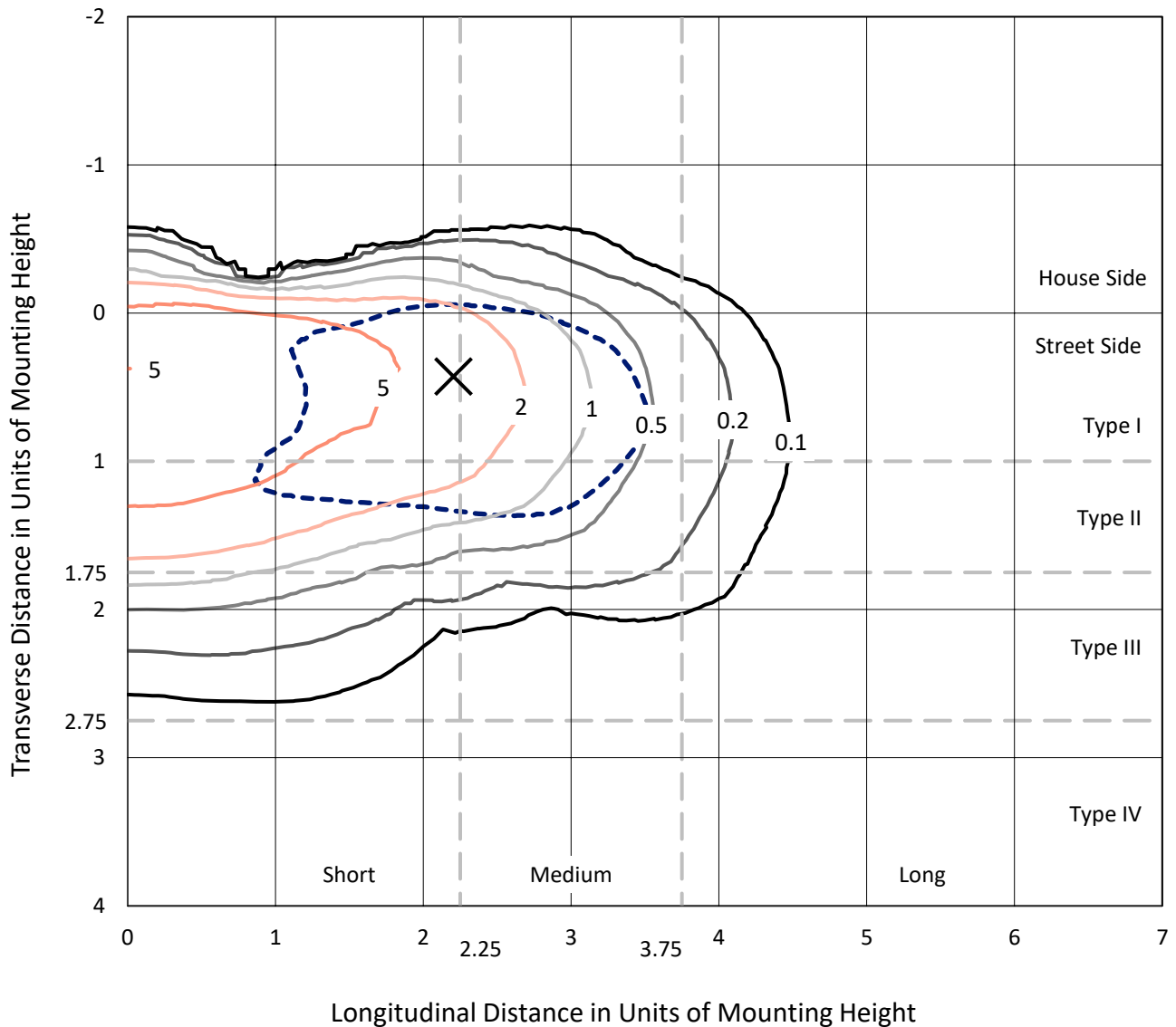
Lumens per Lamp: N/A
Luminaire Lumens: 29377.3 lumens
Efficiency: N/A
Efficacy: 69.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 422.6
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

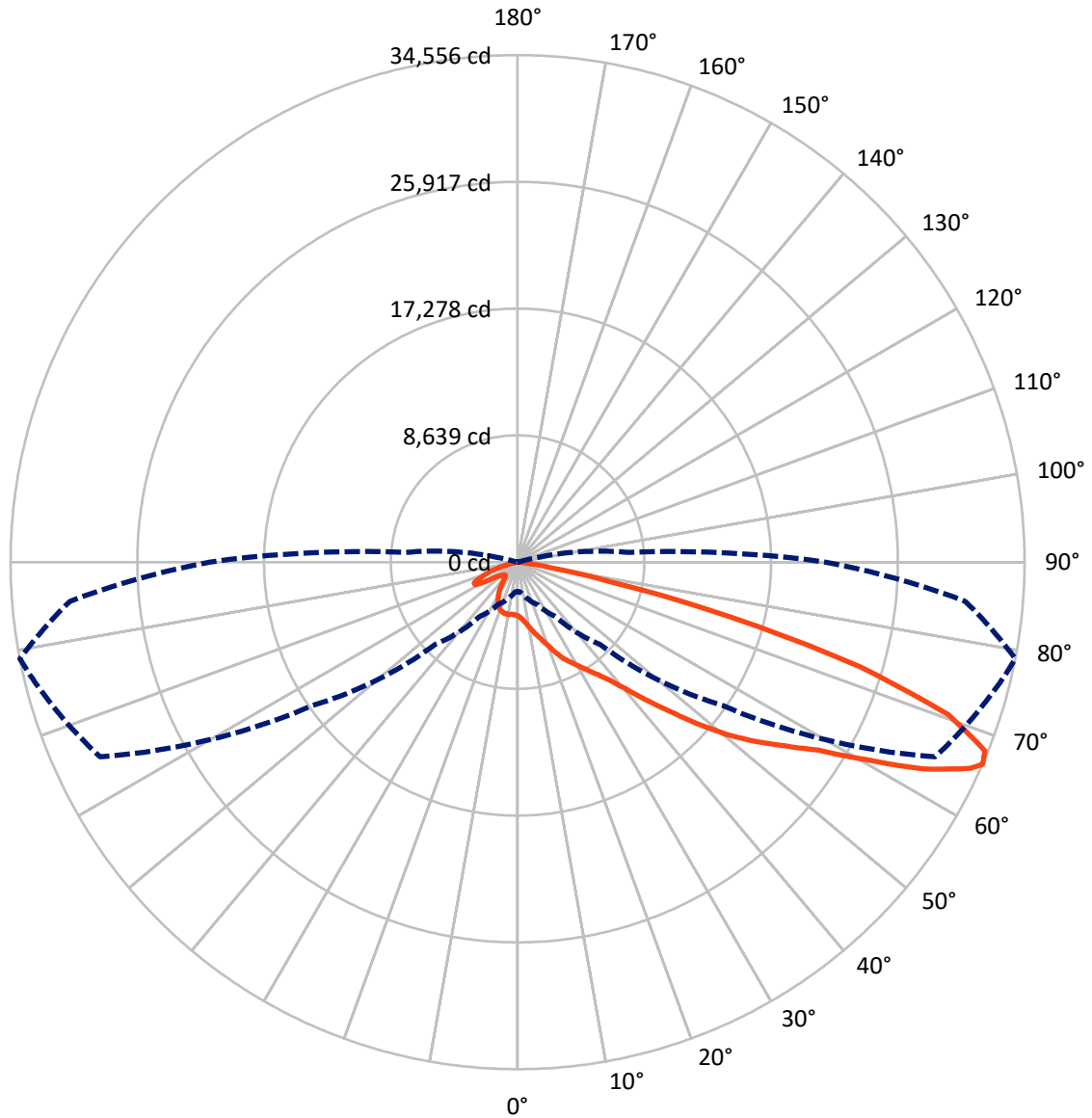
× Max cd
 - - - 1/2 Max cd



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	2205.8	0.0	2205.8
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	27171.4	0.0	27171.4
	% Fixture	92.5	0.0	92.5
Total	Lumens	29377.3	0.0	29377.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	345.6	1.2
10°-20°	951.3	3.2
20°-30°	1580.3	5.4
30°-40°	2714.4	9.2
40°-50°	4917.5	16.7
50°-60°	7773.1	26.5
60°-70°	7909.7	26.9
70°-80°	3016.4	10.3
80°-90°	169.1	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°	29377.3	100.0
0°-180°	29377.3	100.0

Coefficient of Utilization

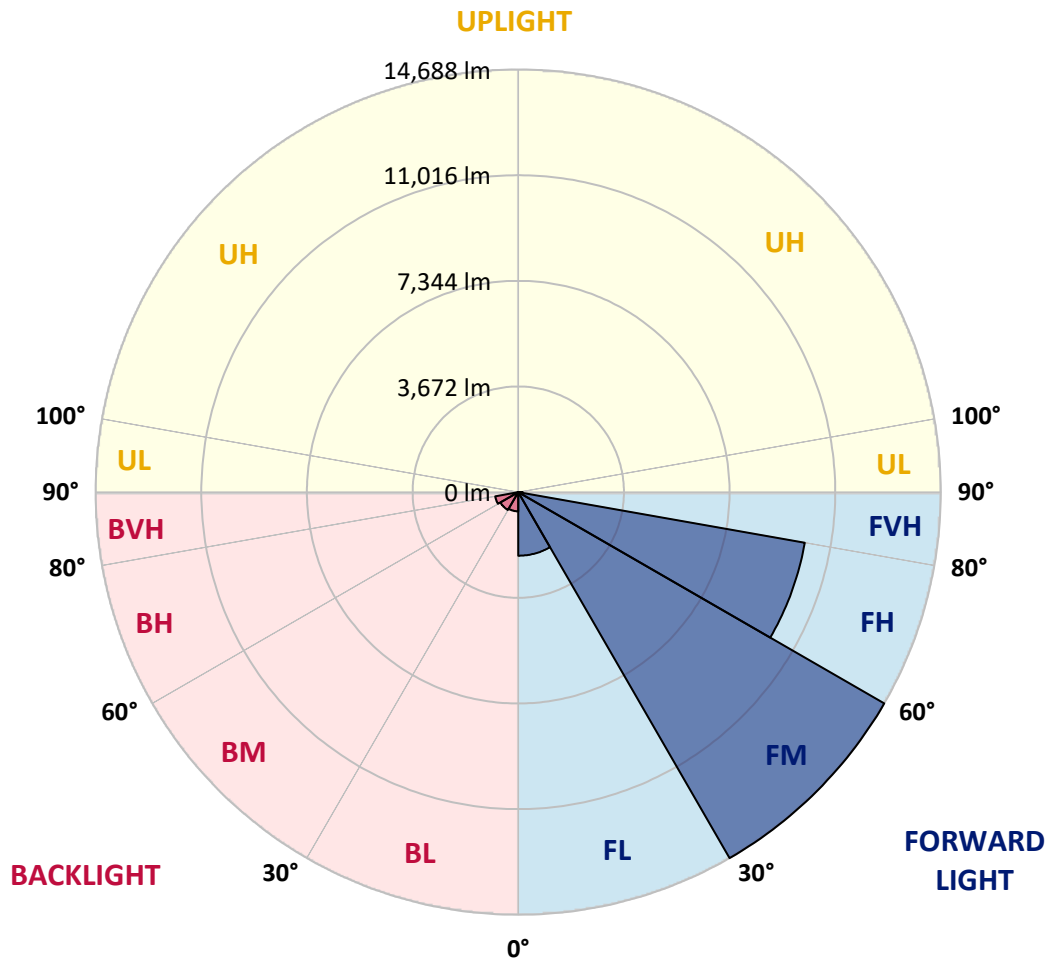


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2210.1	7.5			
FM (30°-60°)	14688.0	50.0			
FH (60°-80°)	10112.9	34.4			G4/12000
FVH (80°-90°)	160.5	0.5			G2/225
BL (0°-30°)	667.1	2.3	B2/1000		
BM (30°-60°)	716.9	2.4	B1/1000		
BH (60°-80°)	813.2	2.8	B2/1000		G2/1000
BVH (80°-90°)	8.6	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°	3654.9	3654.9	3654.9	3654.9	3654.9	3654.9	3654.9	3654.9	3654.9	3654.9	3654.9
2.5°	4139.5	4135.0	4116.8	4085.1	4044.4	4030.8	3971.9	3890.4	3845.1	3795.3	3772.6
5°	4424.8	4402.2	4456.5	4433.9	4442.9	4334.2	4261.8	4202.9	4030.8	3962.9	3854.2
7.5°	4488.2	4510.9	4506.3	4542.6	4578.8	4619.6	4569.7	4483.7	4311.6	4211.9	4094.2
10°	4488.2	4479.2	4515.4	4565.2	4669.4	4760.0	4895.8	4782.6	4651.3	4533.5	4320.6
12.5°	4406.7	4393.1	4429.3	4533.5	4719.2	4904.9	5054.3	5163.0	4977.3	4882.2	4606.0
15°	4157.6	4144.0	4293.5	4479.2	4723.7	5027.2	5339.7	5516.3	5389.5	5240.0	4932.1
17.5°	3849.6	3867.7	4026.3	4334.2	4723.7	5086.0	5484.6	5869.6	5851.4	5661.2	5339.7
20°	3745.5	3759.1	3917.6	4139.5	4583.3	5126.8	5711.0	6254.5	6363.2	6136.8	5715.6
22.5°	3944.7	3931.2	3944.7	4080.6	4488.2	5090.6	5860.5	6693.8	6888.6	6711.9	6209.2
25°	4624.1	4615.0	4501.8	4293.5	4433.9	5009.1	5937.5	6983.7	7432.1	7269.0	6607.8
27.5°	5620.5	5584.2	5407.6	4972.8	4687.5	5058.9	6064.3	7264.5	7907.6	7721.9	6965.6
30°	6689.3	6603.3	6372.3	5828.8	5344.2	5244.6	6136.8	7472.8	8437.5	8202.0	7278.1
32.5°	7427.5	7540.7	7468.3	6915.8	6173.0	5674.8	6254.5	7735.5	8926.6	8772.6	7812.5
35°	8568.8	8700.2	8396.7	7907.6	7160.3	6358.7	6503.6	7948.4	9678.4	9420.3	8310.7
37.5°	10009.0	10108.7	9891.3	8962.8	8174.8	7201.1	7015.4	8392.2	10326.1	10203.8	8949.3
40°	10733.7	11213.8	10905.8	10067.9	9221.0	8378.6	7862.3	8913.0	11453.8	11354.1	9832.4
42.5°	11734.6	11974.6	11816.1	11195.6	10312.5	9637.7	8908.5	9927.5	12821.5	12821.5	11028.1
45°	12794.4	12803.4	12794.4	12287.1	11503.6	11154.9	10321.5	11200.2	14293.5	14456.5	12459.2
47.5°	13663.9	13935.7	13913.0	13609.6	13002.7	12871.4	11734.6	12649.4	16141.3	16426.6	13854.1
50°	14112.3	14415.7	14506.3	14664.8	14637.7	14913.9	13279.0	14329.7	17735.5	18437.5	15647.6
52.5°	13990.0	14012.7	14569.7	15194.7	16191.1	16965.6	15140.4	16236.4	19601.4	20294.4	17033.5
55°	12989.1	12903.1	14048.9	14764.5	16825.2	18220.1	17717.4	18614.1	21055.2	22110.5	18464.6
57.5°	10792.6	10815.2	11875.0	13328.8	16354.1	18718.3	20471.0	21721.0	23093.3	24157.6	20475.5
60°	7450.2	7423.0	8609.6	10289.8	13586.9	17789.8	22056.1	25747.2	25819.7	27327.9	24085.1
62.5°	4189.3	4198.4	5099.6	6535.3	9506.3	14538.0	21979.1	30022.6	29714.6	31037.1	28188.4
65°	2373.2	2432.1	3052.5	3872.3	5692.9	9759.9	18904.0	31725.5	32717.3	33894.9	30679.3
66°	2006.3	2047.1	2577.0	3197.5	4542.6	7916.7	17015.4	31394.9	33659.4	34556.1	30629.5
67.5°	1553.4	1607.8	2051.6	2536.2	3333.3	5480.1	13695.6	29750.9	33831.5	34356.8	29764.4
70°	1064.3	1100.5	1440.2	1924.8	2278.1	2803.4	8188.4	24596.9	30697.4	31141.3	25869.5
72.5°	747.3	765.4	1010.0	1458.3	1752.7	1603.3	4062.5	17500.0	23491.8	24356.8	20122.3
75°	538.9	557.1	692.9	1046.2	1367.8	1050.7	1861.4	11177.5	14406.7	15086.0	12119.5
77.5°	389.5	412.1	471.0	674.8	991.8	738.2	914.9	5837.9	6793.5	6675.7	5212.9
80°	235.5	258.2	348.7	434.8	724.6	520.8	502.7	2436.6	2409.4	2287.1	1639.5
82.5°	108.7	126.8	185.7	294.4	507.2	362.3	240.0	869.6	760.9	697.5	462.0
85°	31.7	40.8	108.7	221.9	258.2	176.6	144.9	298.9	312.5	267.2	154.0
87.5°	0.0	4.5	49.8	54.3	77.0	58.9	54.3	77.0	144.9	117.8	49.8
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°	3654.9	3654.9	3654.9	3654.9	3654.9	3654.9	3654.9	3654.9	3654.9	3654.9	3654.9
2.5°	3691.1	3659.4	3582.4	3464.7	3360.5	3306.2	3229.2	3161.2	3125.0	3120.5	3115.9
5°	3781.7	3695.6	3510.0	3297.1	3138.6	2966.5	2848.7	2762.7	2681.2	2604.2	2649.5
7.5°	3904.0	3768.1	3464.7	3188.4	2844.2	2622.3	2413.9	2291.7	2219.2	2151.3	2142.2
10°	4094.2	3922.1	3433.0	2934.8	2540.8	2214.7	2001.8	1825.2	1725.5	1607.8	1653.1
12.5°	4352.3	4044.4	3315.2	2703.8	2196.6	1852.4	1548.9	1263.6	1105.1	982.8	987.3
15°	4610.5	4207.4	3206.5	2423.0	1884.1	1431.2	987.3	792.6	747.3	720.1	729.2
17.5°	4864.1	4338.8	3038.9	2137.7	1526.3	910.3	720.1	679.3	656.7	629.5	629.5
20°	5172.1	4424.8	2830.6	1875.0	1050.7	674.8	615.9	588.8	552.5	516.3	520.8
22.5°	5471.0	4497.3	2590.6	1539.9	706.5	584.2	516.3	480.1	448.4	412.1	412.1
25°	5769.9	4519.9	2278.1	1105.1	570.7	466.5	403.1	353.3	321.6	289.9	294.4
27.5°	5973.7	4379.5	1983.7	706.5	457.4	353.3	280.8	240.0	212.9	181.2	181.2
30°	6091.5	4121.4	1666.7	498.2	344.2	240.0	167.6	126.8	99.6	77.0	72.5
32.5°	6209.2	3913.0	1308.9	380.4	226.4	126.8	63.4	22.6	0.0	0.0	0.0
35°	6444.7	3677.5	878.6	212.9	77.0	4.5	0.0	0.0	0.0	0.0	0.0
37.5°	6594.2	3351.4	403.1	31.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	6970.1	3188.4	99.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	7581.5	3075.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	8251.8	3029.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	9144.0	3152.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	10086.0	3482.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	11118.6	3795.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	12019.9	4171.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	13677.5	5058.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	16653.1	6802.5	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	20004.5	8097.8	49.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	21231.9	8066.1	86.1	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	21014.5	7622.3	86.1	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	19886.7	6770.8	77.0	9.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	17078.8	5593.3	77.0	13.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	13020.8	4356.9	72.5	18.1	4.5	0.0	0.0	0.0	0.0	0.0	0.0
75°	7857.8	2318.8	58.9	22.6	9.1	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	3129.5	815.2	45.3	18.1	9.1	0.0	0.0	0.0	0.0	0.0	0.0
80°	846.9	244.6	27.2	18.1	13.6	4.5	0.0	0.0	0.0	0.0	0.0
82.5°	221.9	90.6	22.6	18.1	9.1	4.5	0.0	0.0	0.0	0.0	0.0
85°	86.1	36.2	18.1	13.6	13.6	9.1	4.5	0.0	0.0	0.0	0.0
87.5°	27.2	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)