

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: P481614

Luminaire Tested: **IFLD-L-SA7B-730-U-T2-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481614
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7B-730-U-T2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens with House Side Shield
Light Source: (112) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

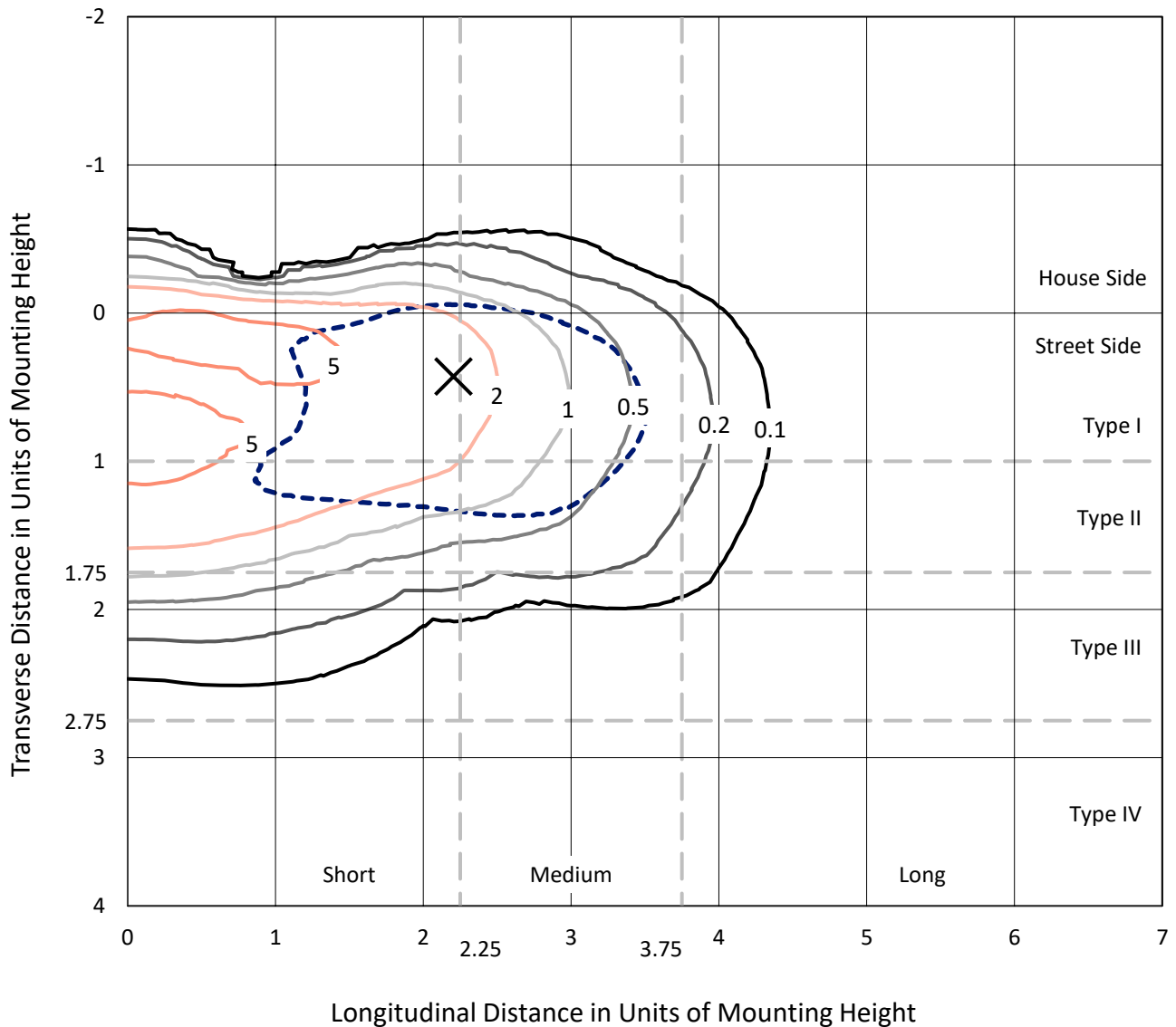
Lumens per Lamp: N/A
Luminaire Lumens: 23352.9 lumens
Efficiency: N/A
Efficacy: 83.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 281
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

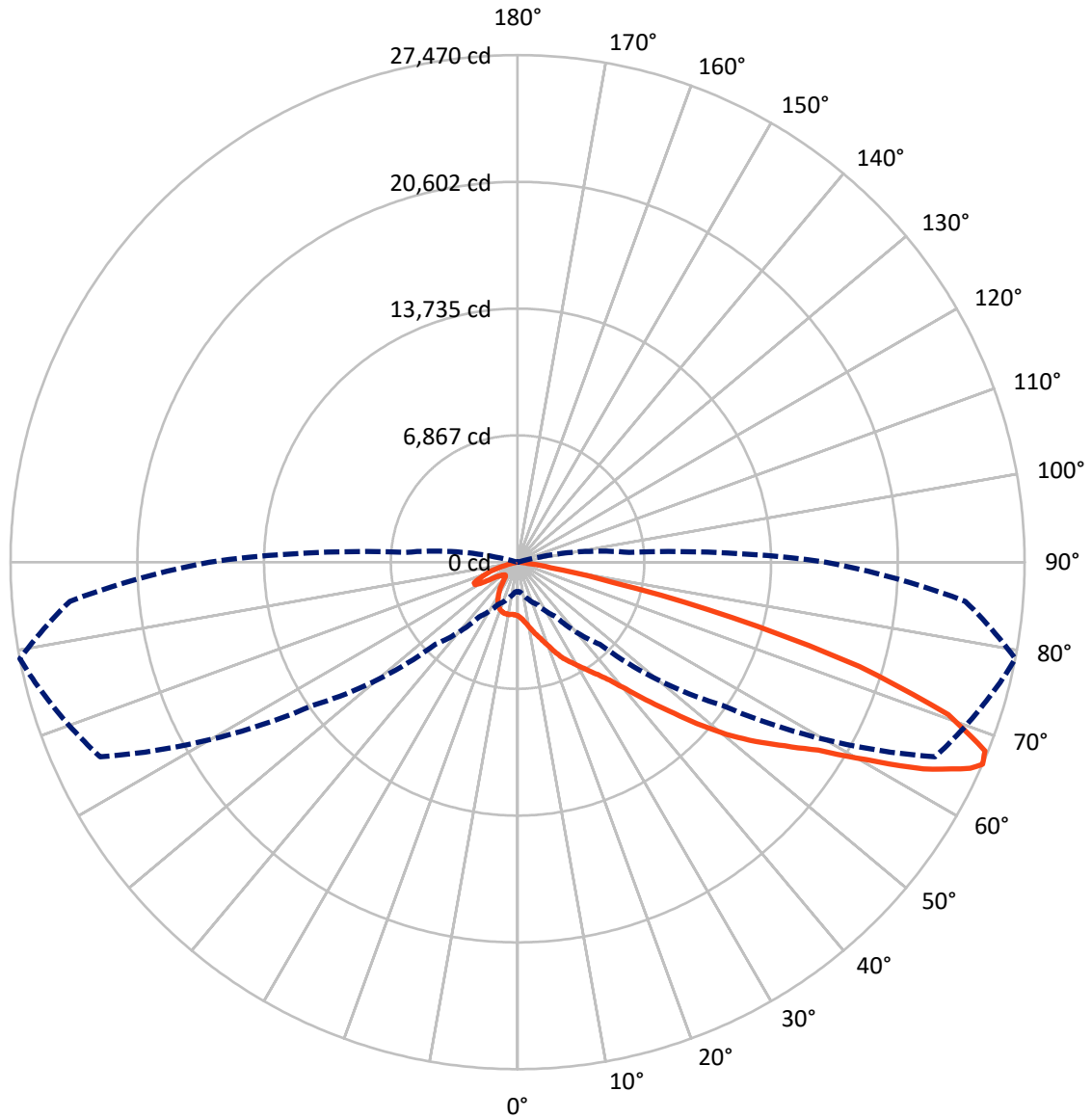
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 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	1753.5	0.0	1753.5
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	21599.4	0.0	21599.4
	% Fixture	92.5	0.0	92.5
Total	Lumens	23352.9	0.0	23352.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	274.8	1.2
10°-20°	756.2	3.2
20°-30°	1256.2	5.4
30°-40°	2157.8	9.2
40°-50°	3909.0	16.7
50°-60°	6179.0	26.5
60°-70°	6287.6	26.9
70°-80°	2397.8	10.3
80°-90°	134.4	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°	23352.9	100.0
0°-180°	23352.9	100.0

Coefficient of Utilization



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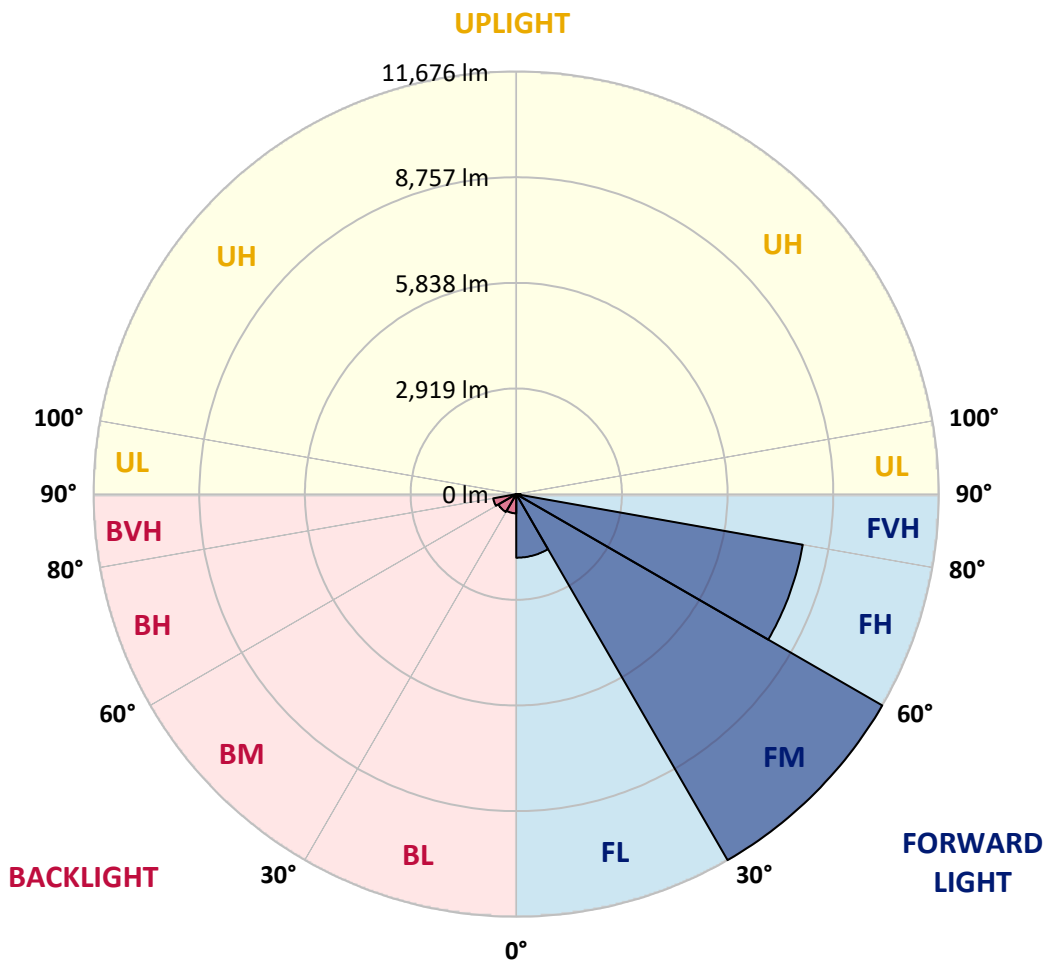
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1756.9	7.5			
FM (30°-60°)	11675.9	50.0			
FH (60°-80°)	8039.0	34.4			G4/12000
FVH (80°-90°)	127.5	0.5			G2/225
BL (0°-30°)	530.3	2.3	B2/1000		
BM (30°-60°)	569.9	2.4	B1/1000		
BH (60°-80°)	646.4	2.8	B2/1000		G2/1000
BVH (80°-90°)	6.9	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°	2905.4	2905.4	2905.4	2905.4	2905.4	2905.4	2905.4	2905.4	2905.4	2905.4	2905.4
2.5°	3290.6	3287.0	3272.6	3247.4	3215.0	3204.2	3157.4	3092.6	3056.6	3017.0	2999.0
5°	3517.4	3499.4	3542.6	3524.6	3531.8	3445.4	3387.8	3341.0	3204.2	3150.2	3063.8
7.5°	3567.8	3585.8	3582.2	3611.0	3639.8	3672.2	3632.6	3564.2	3427.4	3348.2	3254.6
10°	3567.8	3560.6	3589.4	3629.0	3711.8	3783.8	3891.8	3801.8	3697.4	3603.8	3434.6
12.5°	3503.0	3492.2	3521.0	3603.8	3751.4	3899.0	4017.9	4104.3	3956.6	3881.0	3661.4
15°	3305.0	3294.2	3413.0	3560.6	3755.0	3996.2	4244.7	4385.1	4284.3	4165.5	3920.6
17.5°	3060.2	3074.6	3200.6	3445.4	3755.0	4043.1	4359.9	4665.9	4651.5	4500.3	4244.7
20°	2977.4	2988.2	3114.2	3290.6	3643.4	4075.5	4539.9	4971.9	5058.3	4878.3	4543.5
22.5°	3135.8	3125.0	3135.8	3243.8	3567.8	4046.7	4658.7	5321.1	5475.9	5335.5	4935.9
25°	3675.8	3668.6	3578.6	3413.0	3524.6	3981.8	4719.9	5551.5	5908.0	5778.4	5252.7
27.5°	4467.9	4439.1	4298.7	3953.0	3726.2	4021.5	4820.7	5774.8	6286.0	6138.4	5537.1
30°	5317.5	5249.1	5065.5	4633.5	4248.3	4169.1	4878.3	5940.4	6707.2	6520.0	5785.6
32.5°	5904.4	5994.4	5936.8	5497.5	4907.1	4511.1	4971.9	6149.2	7096.0	6973.6	6210.4
35°	6811.6	6916.0	6674.8	6286.0	5692.0	5054.7	5169.9	6318.4	7693.7	7488.5	6606.4
37.5°	7956.5	8035.7	7862.9	7124.8	6498.4	5724.4	5576.7	6671.2	8208.5	8111.3	7114.0
40°	8532.5	8914.2	8669.3	8003.3	7330.1	6660.4	6250.0	7085.2	9105.0	9025.8	7816.1
42.5°	9328.2	9519.0	9393.0	8899.8	8197.7	7661.3	7081.6	7891.7	10192.2	10192.2	8766.5
45°	10170.6	10177.8	10170.6	9767.4	9144.6	8867.4	8204.9	8903.4	11362.3	11491.9	9904.2
47.5°	10861.9	11077.9	11059.9	10818.7	10336.2	10231.8	9328.2	10055.4	12831.2	13058.0	11013.1
50°	11218.3	11459.5	11531.5	11657.5	11635.9	11855.5	10555.9	11391.1	14098.5	14656.5	12438.8
52.5°	11121.1	11139.1	11581.9	12078.8	12870.8	13486.4	12035.6	12906.8	15581.8	16132.6	13540.4
55°	10325.4	10257.0	11167.9	11736.7	13374.8	14483.7	14084.1	14796.9	16737.4	17576.3	14678.1
57.5°	8579.3	8597.3	9439.8	10595.5	13000.4	14879.7	16273.0	17266.7	18357.5	19203.6	16276.6
60°	5922.4	5900.8	6844.0	8179.7	10800.7	14141.7	17533.1	20467.3	20524.9	21723.8	19146.0
62.5°	3330.2	3337.4	4053.9	5195.1	7556.9	11556.7	17471.9	23865.9	23621.1	24672.3	22407.8
65°	1886.5	1933.3	2426.6	3078.2	4525.5	7758.5	15027.3	25219.6	26008.0	26944.1	24387.9
66°	1594.9	1627.3	2048.5	2541.8	3611.0	6293.2	13526.0	24956.8	26756.9	27469.7	24348.3
67.5°	1234.9	1278.1	1630.9	2016.1	2649.8	4356.3	10887.1	23649.9	26893.7	27311.3	23660.7
70°	846.1	874.9	1144.9	1530.1	1810.9	2228.5	6509.2	19552.8	24402.3	24755.1	20564.5
72.5°	594.0	608.4	802.9	1159.3	1393.3	1274.5	3229.4	13911.3	18674.4	19362.0	15995.8
75°	428.4	442.8	550.8	831.7	1087.3	835.3	1479.7	8885.4	11452.3	11992.3	9634.2
77.5°	309.6	327.6	374.4	536.4	788.4	586.8	727.2	4640.7	5400.3	5306.7	4143.9
80°	187.2	205.2	277.2	345.6	576.0	414.0	399.6	1936.9	1915.3	1818.1	1303.3
82.5°	86.4	100.8	147.6	234.0	403.2	288.0	190.8	691.2	604.8	554.4	367.2
85°	25.2	32.4	86.4	176.4	205.2	140.4	115.2	237.6	248.4	212.4	122.4
87.5°	0.0	3.6	39.6	43.2	61.2	46.8	43.2	61.2	115.2	93.6	39.6
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°	2905.4	2905.4	2905.4	2905.4	2905.4	2905.4	2905.4	2905.4	2905.4	2905.4	2905.4
2.5°	2934.2	2909.0	2847.8	2754.2	2671.4	2628.2	2567.0	2513.0	2484.2	2480.6	2477.0
5°	3006.2	2937.8	2790.2	2621.0	2495.0	2358.1	2264.5	2196.1	2131.3	2070.1	2106.1
7.5°	3103.4	2995.4	2754.2	2534.6	2260.9	2084.5	1918.9	1821.7	1764.1	1710.1	1702.9
10°	3254.6	3117.8	2729.0	2332.9	2019.7	1760.5	1591.3	1450.9	1371.7	1278.1	1314.1
12.5°	3459.8	3215.0	2635.4	2149.3	1746.1	1472.5	1231.3	1004.5	878.5	781.2	784.8
15°	3665.0	3344.6	2549.0	1926.1	1497.7	1137.7	784.8	630.0	594.0	572.4	579.6
17.5°	3866.6	3449.0	2415.8	1699.3	1213.3	723.6	572.4	540.0	522.0	500.4	500.4
20°	4111.5	3517.4	2250.1	1490.5	835.3	536.4	489.6	468.0	439.2	410.4	414.0
22.5°	4349.1	3575.0	2059.3	1224.1	561.6	464.4	410.4	381.6	356.4	327.6	327.6
25°	4586.7	3593.0	1810.9	878.5	453.6	370.8	320.4	280.8	255.6	230.4	234.0
27.5°	4748.7	3481.4	1576.9	561.6	363.6	280.8	223.2	190.8	169.2	144.0	144.0
30°	4842.3	3276.2	1324.9	396.0	273.6	190.8	133.2	100.8	79.2	61.2	57.6
32.5°	4935.9	3110.6	1040.5	302.4	180.0	100.8	50.4	18.0	0.0	0.0	0.0
35°	5123.1	2923.4	698.4	169.2	61.2	3.6	0.0	0.0	0.0	0.0	0.0
37.5°	5241.9	2664.2	320.4	25.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	5540.7	2534.6	79.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	6026.8	2444.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	6559.6	2408.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	7268.9	2505.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	8017.7	2768.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	8838.6	3017.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	9555.0	3315.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	10872.7	4021.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	13238.0	5407.5	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	15902.2	6437.2	39.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	16877.9	6412.0	68.4	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	16705.0	6059.2	68.4	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	15808.6	5382.3	61.2	7.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	13576.4	4446.3	61.2	10.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	10350.6	3463.4	57.6	14.4	3.6	0.0	0.0	0.0	0.0	0.0	0.0
75°	6246.4	1843.3	46.8	18.0	7.2	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	2487.8	648.0	36.0	14.4	7.2	0.0	0.0	0.0	0.0	0.0	0.0
80°	673.2	194.4	21.6	14.4	10.8	3.6	0.0	0.0	0.0	0.0	0.0
82.5°	176.4	72.0	18.0	14.4	7.2	3.6	0.0	0.0	0.0	0.0	0.0
85°	68.4	28.8	14.4	10.8	10.8	7.2	3.6	0.0	0.0	0.0	0.0
87.5°	21.6	10.8	10.8	7.2	7.2	3.6	3.6	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)