

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: P481652

Luminaire Tested: **IFLD-L-SA7A-735-U-T2-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481652
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7A-735-U-T2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens with House Side Shield
Light Source: (112) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

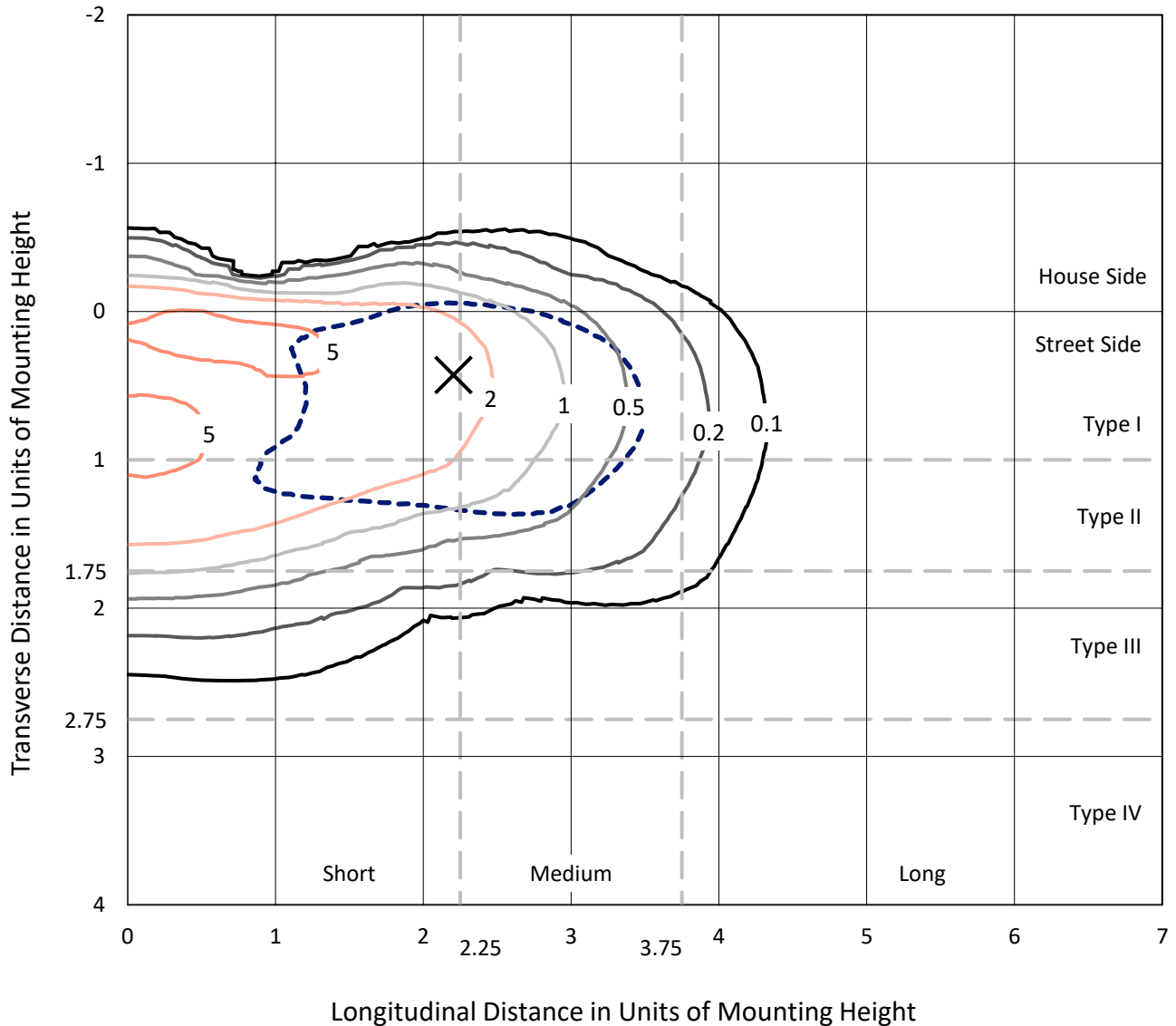
Lumens per Lamp: N/A
Luminaire Lumens: 22231.9 lumens
Efficiency: N/A
Efficacy: 102.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 217.6
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

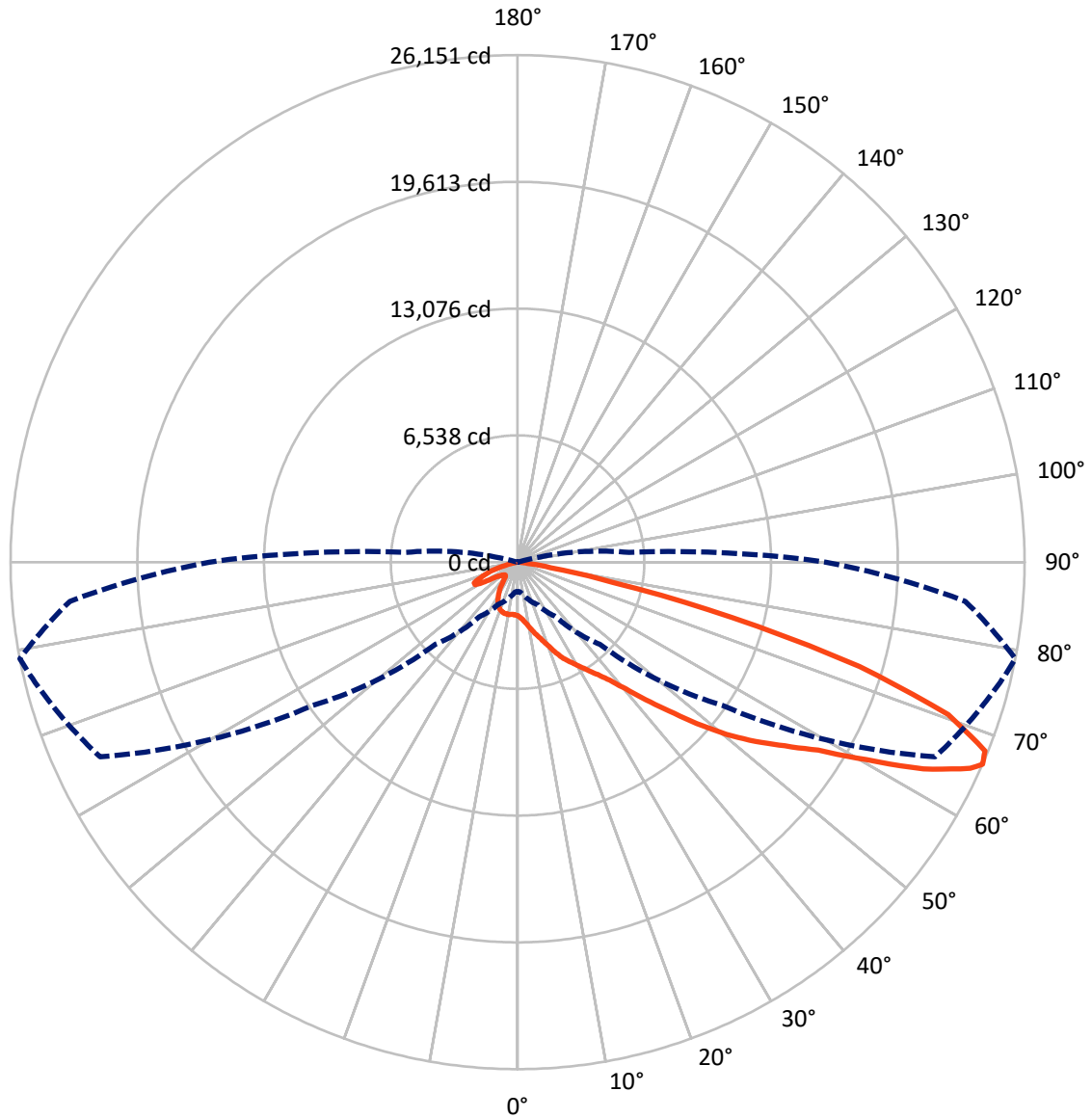
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 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	1669.3	0.0	1669.3
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	20562.6	0.0	20562.6
	% Fixture	92.5	0.0	92.5
Total	Lumens	22231.9	0.0	22231.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	261.6	1.2
10°-20°	719.9	3.2
20°-30°	1195.9	5.4
30°-40°	2054.2	9.2
40°-50°	3721.4	16.7
50°-60°	5882.4	26.5
60°-70°	5985.8	26.9
70°-80°	2282.7	10.3
80°-90°	128.0	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°	22231.9	100.0
0°-180°	22231.9	100.0

Coefficient of Utilization

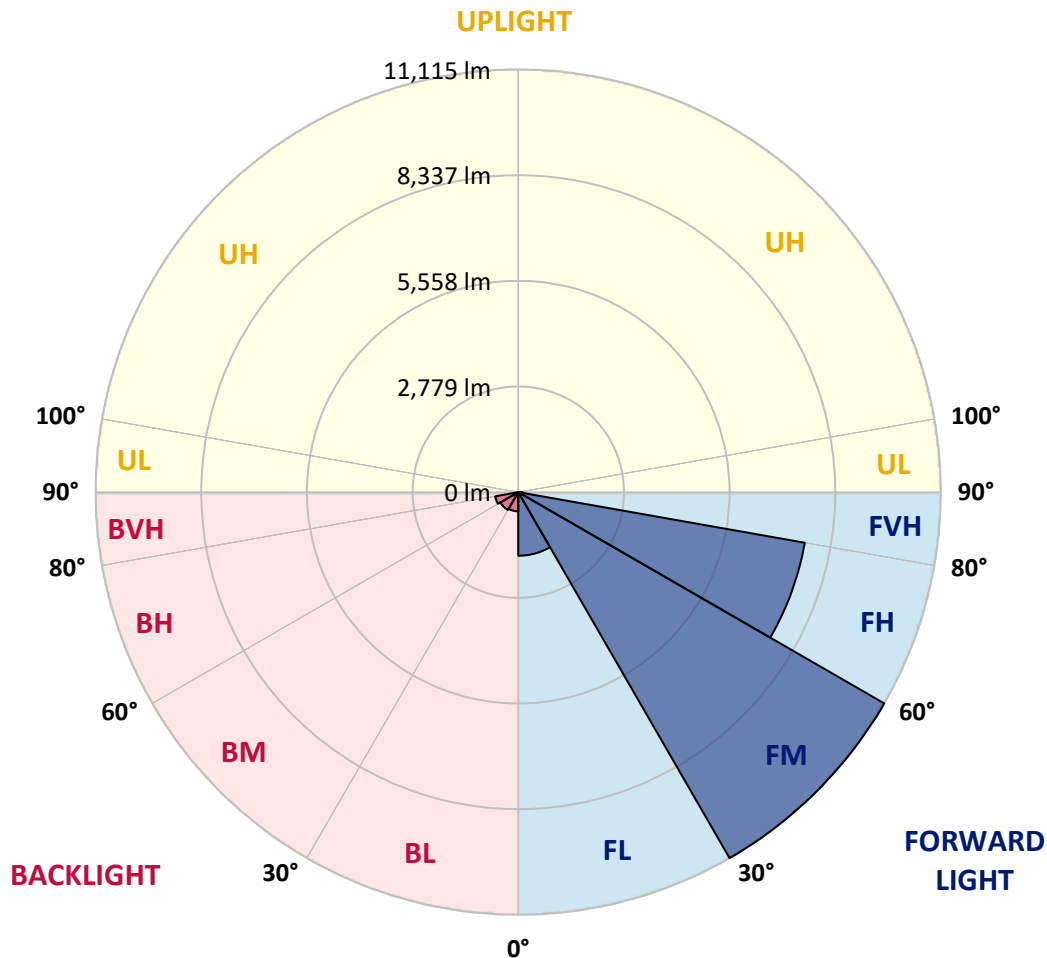


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1672.6	7.5			
FM (30°-60°)	11115.4	50.0			
FH (60°-80°)	7653.1	34.4			G4/12000
FVH (80°-90°)	121.4	0.5			G2/225
BL (0°-30°)	504.8	2.3	B2/1000		
BM (30°-60°)	542.6	2.4	B1/1000		
BH (60°-80°)	615.4	2.8	B2/1000		G2/1000
BVH (80°-90°)	6.5	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°	2765.9	2765.9	2765.9	2765.9	2765.9	2765.9	2765.9	2765.9	2765.9	2765.9	2765.9
2.5°	3132.6	3129.2	3115.5	3091.5	3060.7	3050.4	3005.8	2944.1	2909.9	2872.2	2855.0
5°	3348.6	3331.4	3372.6	3355.4	3362.3	3280.0	3225.2	3180.6	3050.4	2999.0	2916.7
7.5°	3396.6	3413.7	3410.3	3437.7	3465.1	3496.0	3458.3	3393.1	3262.9	3187.5	3098.4
10°	3396.6	3389.7	3417.1	3454.8	3533.7	3602.2	3705.0	3619.3	3519.9	3430.8	3269.7
12.5°	3334.9	3324.6	3352.0	3430.8	3571.4	3711.9	3825.0	3907.2	3766.7	3694.7	3485.7
15°	3146.4	3136.1	3249.2	3389.7	3574.8	3804.4	4040.9	4174.6	4078.6	3965.5	3732.4
17.5°	2913.3	2927.0	3047.0	3280.0	3574.8	3849.0	4150.6	4441.9	4428.2	4284.3	4040.9
20°	2834.5	2844.7	2964.7	3132.6	3468.5	3879.8	4322.0	4733.2	4815.5	4644.1	4325.4
22.5°	2985.3	2975.0	2985.3	3088.1	3396.6	3852.4	4435.1	5065.7	5213.1	5079.4	4699.0
25°	3499.4	3492.5	3406.8	3249.2	3355.4	3790.7	4493.3	5285.1	5624.4	5501.0	5000.6
27.5°	4253.4	4226.0	4092.3	3763.3	3547.4	3828.4	4589.3	5497.6	5984.2	5843.7	5271.3
30°	5062.3	4997.2	4822.4	4411.1	4044.3	3968.9	4644.1	5655.2	6385.3	6207.0	5507.8
32.5°	5620.9	5706.6	5651.8	5233.6	4671.6	4294.5	4733.2	5854.0	6755.4	6638.9	5912.3
35°	6484.6	6584.0	6354.4	5984.2	5418.7	4812.1	4921.8	6015.1	7324.4	7129.0	6289.3
37.5°	7574.6	7650.0	7485.4	6782.8	6186.5	5449.6	5309.0	6351.0	7814.5	7721.9	6772.5
40°	8122.9	8486.3	8253.2	7619.1	6978.2	6340.7	5950.0	6745.1	8667.9	8592.5	7440.9
42.5°	8880.4	9062.1	8942.1	8472.5	7804.2	7293.5	6741.7	7512.9	9703.0	9703.0	8345.7
45°	9682.4	9689.3	9682.4	9298.5	8705.6	8441.7	7811.1	8476.0	10816.9	10940.3	9428.8
47.5°	10340.5	10546.1	10529.0	10299.3	9840.1	9740.7	8880.4	9572.7	12215.3	12431.2	10484.4
50°	10679.8	10909.4	10978.0	11097.9	11077.4	11286.4	10049.1	10844.3	13421.7	13953.0	11841.7
52.5°	10587.2	10604.4	11026.0	11498.9	12253.0	12839.1	11457.8	12287.2	14833.8	15358.2	12890.5
55°	9829.8	9764.7	10631.8	11173.3	12732.8	13788.4	13408.0	14086.6	15934.0	16732.6	13973.5
57.5°	8167.5	8184.6	8986.7	10086.8	12376.4	14165.5	15491.9	16437.8	17476.3	18281.8	15495.3
60°	5638.1	5617.5	6515.5	7787.1	10282.2	13462.8	16691.5	19484.8	19539.6	20681.0	18226.9
62.5°	3170.3	3177.2	3859.3	4945.7	7194.1	11002.0	16633.2	22720.3	22487.2	23488.0	21332.2
65°	1796.0	1840.5	2310.1	2930.4	4308.2	7386.1	14306.0	24009.0	24759.6	25650.7	23217.2
66°	1518.3	1549.2	1950.2	2419.7	3437.7	5991.1	12876.8	23758.8	25472.5	26151.1	23179.5
67.5°	1175.6	1216.7	1552.6	1919.3	2522.6	4147.2	10364.5	22514.6	25602.7	26000.3	22524.9
70°	805.4	832.9	1089.9	1456.6	1724.0	2121.6	6196.7	18614.2	23230.9	23566.8	19577.3
72.5°	565.5	579.2	764.3	1103.6	1326.4	1213.3	3074.4	13243.5	17777.9	18432.6	15228.0
75°	407.9	421.6	524.4	791.7	1035.1	795.2	1408.7	8458.8	10902.6	11416.7	9171.7
77.5°	294.8	311.9	356.4	510.7	750.6	558.7	692.3	4417.9	5141.1	5052.0	3944.9
80°	178.2	195.4	263.9	329.0	548.4	394.2	380.4	1843.9	1823.4	1730.8	1240.7
82.5°	82.3	96.0	140.5	222.8	383.9	274.2	181.7	658.1	575.8	527.8	349.6
85°	24.0	30.8	82.3	167.9	195.4	133.7	109.7	226.2	236.5	202.2	116.5
87.5°	0.0	3.4	37.7	41.1	58.3	44.6	41.1	58.3	109.7	89.1	37.7
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°	2765.9	2765.9	2765.9	2765.9	2765.9	2765.9	2765.9	2765.9	2765.9	2765.9	2765.9
2.5°	2793.3	2769.3	2711.1	2622.0	2543.1	2502.0	2443.7	2392.3	2364.9	2361.5	2358.1
5°	2861.9	2796.8	2656.2	2495.1	2375.2	2244.9	2155.8	2090.7	2029.0	1970.8	2005.0
7.5°	2954.4	2851.6	2622.0	2412.9	2152.4	1984.5	1826.8	1734.3	1679.4	1628.0	1621.2
10°	3098.4	2968.1	2598.0	2221.0	1922.8	1676.0	1514.9	1381.2	1305.8	1216.7	1251.0
12.5°	3293.7	3060.7	2508.9	2046.2	1662.3	1401.8	1172.2	956.2	836.3	743.7	747.2
15°	3489.1	3184.1	2426.6	1833.7	1425.8	1083.1	747.2	599.8	565.5	545.0	551.8
17.5°	3681.0	3283.5	2299.8	1617.7	1155.0	688.9	545.0	514.1	497.0	476.4	476.4
20°	3914.1	3348.6	2142.1	1418.9	795.2	510.7	466.1	445.6	418.1	390.7	394.2
22.5°	4140.3	3403.4	1960.5	1165.3	534.7	442.1	390.7	363.3	339.3	311.9	311.9
25°	4366.5	3420.5	1724.0	836.3	431.9	353.0	305.0	267.3	243.3	219.4	222.8
27.5°	4520.7	3314.3	1501.2	534.7	346.2	267.3	212.5	181.7	161.1	137.1	137.1
30°	4609.9	3118.9	1261.3	377.0	260.5	181.7	126.8	96.0	75.4	58.3	54.8
32.5°	4699.0	2961.3	990.5	287.9	171.4	96.0	48.0	17.1	0.0	0.0	0.0
35°	4877.2	2783.1	664.9	161.1	58.3	3.4	0.0	0.0	0.0	0.0	0.0
37.5°	4990.3	2536.3	305.0	24.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	5274.8	2412.9	75.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	5737.5	2327.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	6244.7	2292.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	6919.9	2385.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	7632.8	2635.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	8414.3	2872.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	9096.3	3156.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	10350.8	3828.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	12602.6	5148.0	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	15138.8	6128.2	37.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	16067.7	6104.2	65.1	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	15903.2	5768.3	65.1	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	15049.7	5124.0	58.3	6.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	12924.7	4232.8	58.3	10.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	9853.8	3297.2	54.8	13.7	3.4	0.0	0.0	0.0	0.0	0.0	0.0
75°	5946.5	1754.8	44.6	17.1	6.9	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	2368.3	616.9	34.3	13.7	6.9	0.0	0.0	0.0	0.0	0.0	0.0
80°	640.9	185.1	20.6	13.7	10.3	3.4	0.0	0.0	0.0	0.0	0.0
82.5°	167.9	68.5	17.1	13.7	6.9	3.4	0.0	0.0	0.0	0.0	0.0
85°	65.1	27.4	13.7	10.3	10.3	6.9	3.4	0.0	0.0	0.0	0.0
87.5°	20.6	10.3	10.3	6.9	6.9	3.4	3.4	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)