

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: P482866

Luminaire Tested: **IFLD-L-SA8A-740-U-T3R-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P482866
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8A-740-U-T3R-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R
distribution lens with House Side Shield
Light Source: (128) 4000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

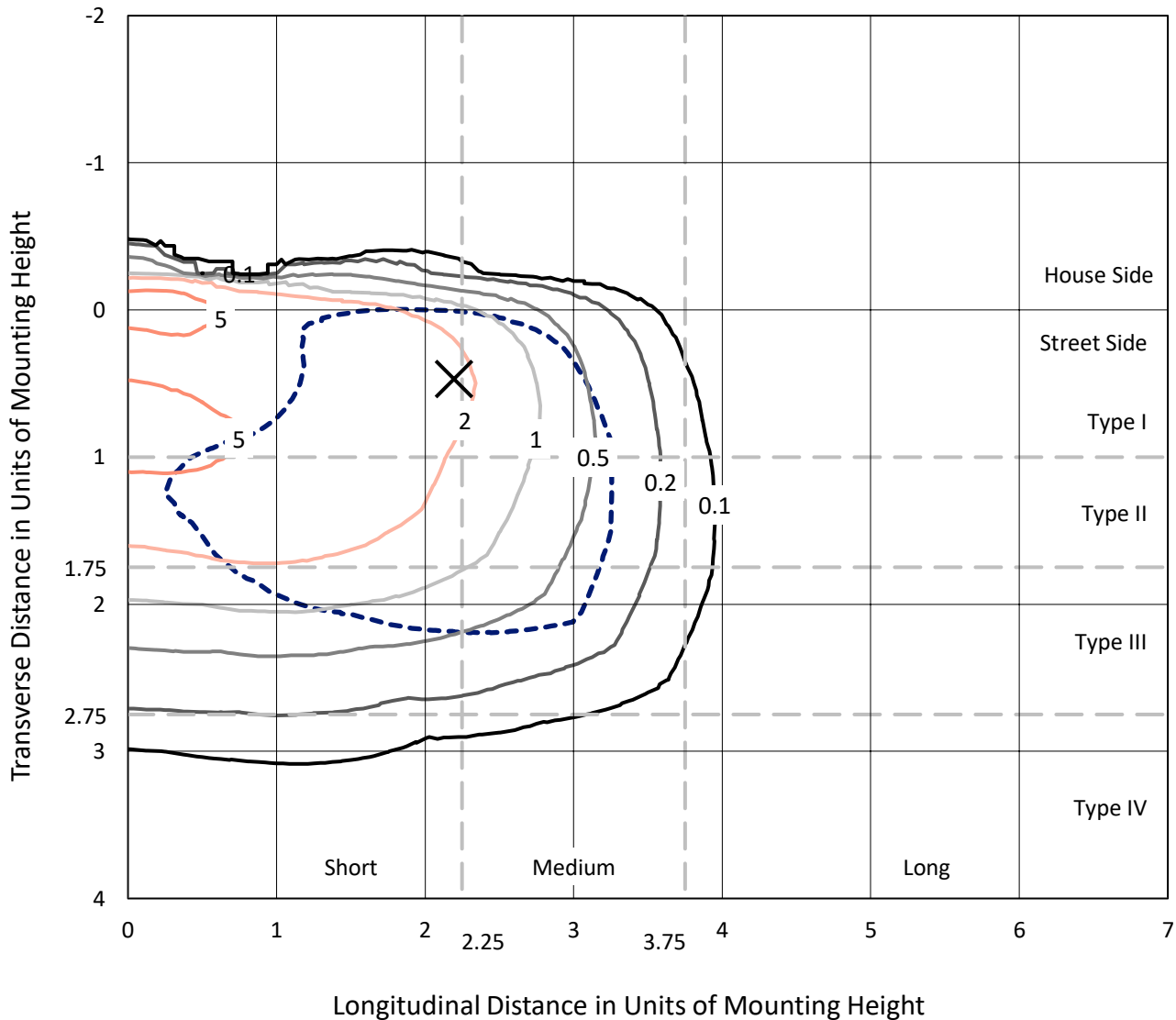
Lumens per Lamp: N/A
Luminaire Lumens: 24555.5 lumens
Efficiency: N/A
Efficacy: 99.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 247.8
Input Voltage (V): 120
Input Current (A_{in}): 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

REPORT NUMBER: P482866
 CATALOG NUMBER: IFLD-L-SA8A-740-U-T3R-HSS

Iso-Footcandle Lines of Horizontal Illumination

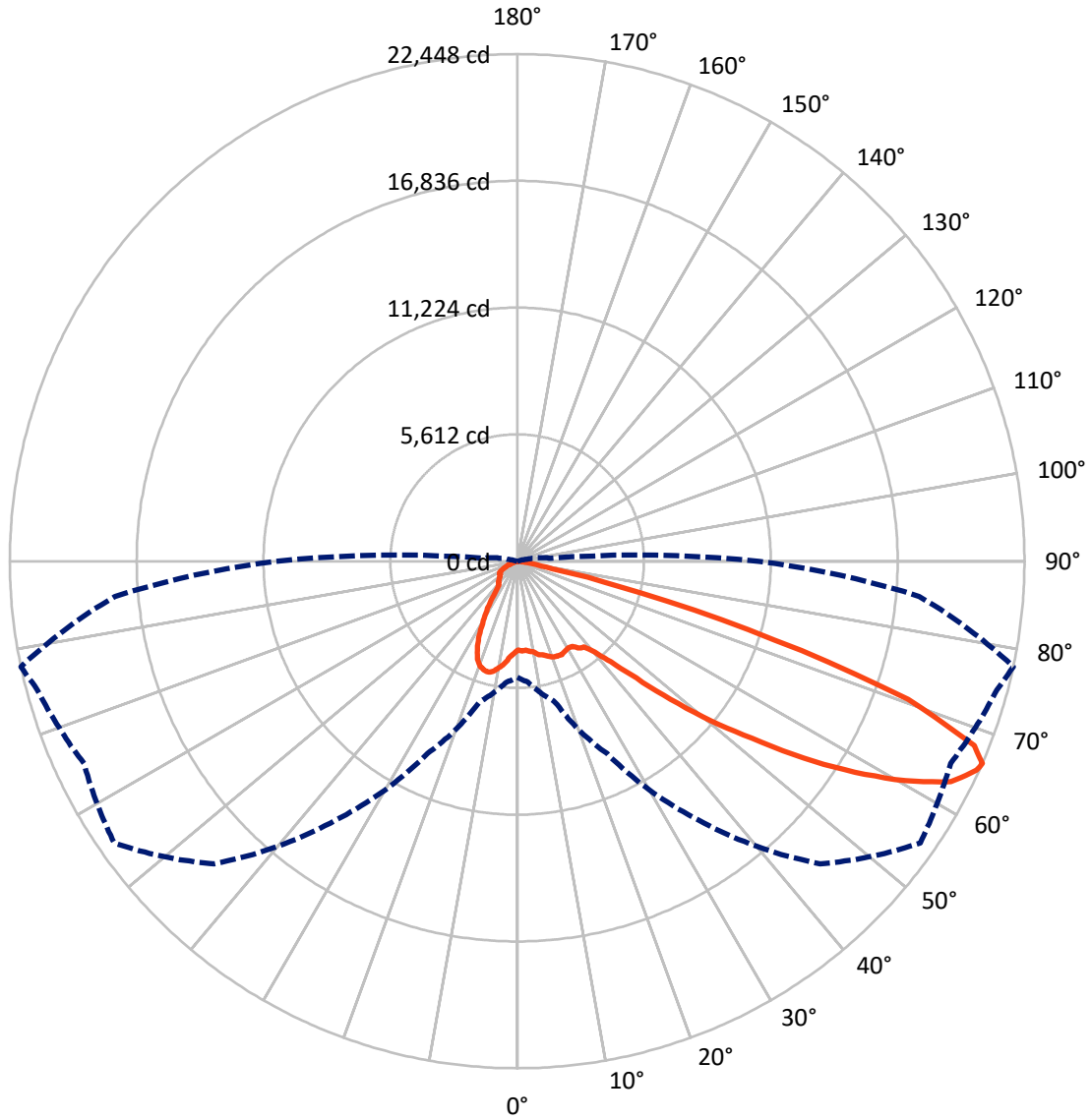
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 fc
 Type III - Short - N/A

REPORT NUMBER: P482866
CATALOG NUMBER: IFLD-L-SA8A-740-U-T3R-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

REPORT NUMBER: P482866
 CATALOG NUMBER: IFLD-L-SA8A-740-U-T3R-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1726.4	0.0	1726.4
	% Fixture	7.0	0.0	7.0
Street Side	Lumens	22829.2	0.0	22829.2
	% Fixture	93.0	0.0	93.0
Total	Lumens	24555.5	0.0	24555.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	359.8	1.5
10°-20°	812.2	3.3
20°-30°	1160.9	4.7
30°-40°	1987.2	8.1
40°-50°	3586.7	14.6
50°-60°	6133.7	25.0
60°-70°	7549.5	30.7
70°-80°	2854.1	11.6
80°-90°	111.5	0.5
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°	24555.5	100.0
0°-180°	24555.5	100.0

Coefficient of Utilization

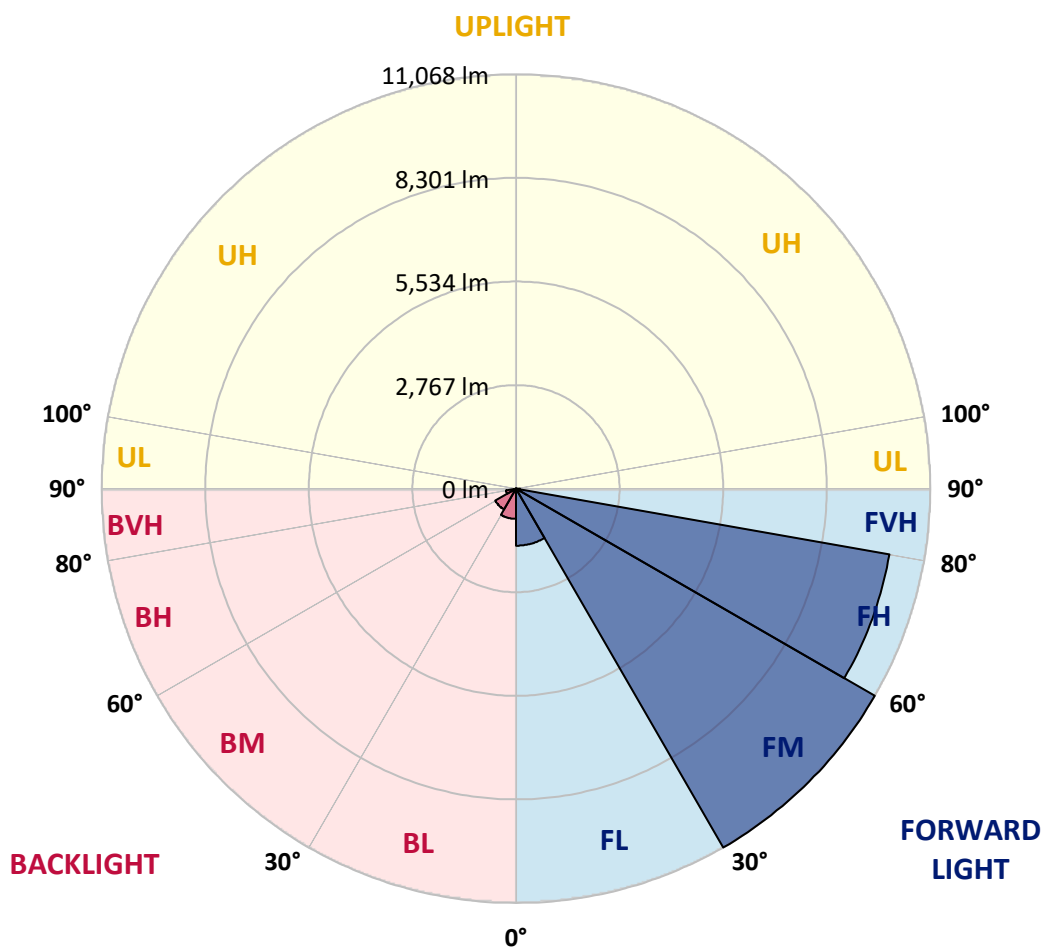


REPORT NUMBER: P482866
 CATALOG NUMBER: IFLD-L-SA8A-740-U-T3R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1524.4	6.2			
FM (30°-60°)	11067.7	45.1			
FH (60°-80°)	10130.1	41.3			G4/12000
FVH (80°-90°)	107.0	0.4			G2/225
BL (0°-30°)	808.5	3.3	B2/1000		
BM (30°-60°)	639.9	2.6	B1/1000		
BH (60°-80°)	273.5	1.1	B1/500		G1/500
BVH (80°-90°)	4.5	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 III Short





REPORT NUMBER: P482866

CATALOG NUMBER: IFLD-L-SA8A-740-U-T3R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	3933.0	3933.0	3933.0	3933.0	3933.0	3933.0	3933.0	3933.0	3933.0	3933.0	3933.0
2.5°	3617.6	3584.2	3617.6	3665.9	3691.8	3714.1	3792.0	3858.8	3929.3	3977.5	3962.7
5°	3354.2	3417.3	3424.7	3439.5	3480.3	3613.9	3658.4	3773.5	3947.8	3962.7	4029.5
7.5°	3146.4	3127.8	3176.1	3272.6	3376.4	3454.4	3584.2	3784.6	3966.4	4029.5	4159.3
10°	2845.9	2883.0	2934.9	3031.4	3157.5	3350.5	3580.5	3803.1	4062.9	4085.1	4326.3
12.5°	2682.6	2645.5	2727.1	2827.3	3042.5	3220.6	3502.6	3769.7	4122.2	4244.7	4522.9
15°	2549.0	2567.6	2645.5	2712.3	2890.4	3116.7	3446.9	3851.4	4222.4	4307.7	4730.7
17.5°	2493.4	2482.2	2541.6	2608.4	2827.3	3083.3	3424.7	3855.1	4311.5	4422.8	4871.7
20°	2519.3	2541.6	2523.1	2586.1	2723.4	2983.1	3458.1	3925.6	4378.2	4530.4	5023.8
22.5°	2927.5	2897.8	2749.4	2630.7	2638.1	2942.3	3432.1	3970.1	4437.6	4560.1	5127.7
25°	3992.4	3832.8	3465.5	3009.1	2708.6	2831.0	3402.4	3955.3	4426.5	4578.6	5190.8
27.5°	5064.7	4927.4	4567.5	3858.8	2994.3	2786.5	3298.5	3966.4	4370.8	4511.8	5086.9
30°	6196.3	6270.5	5736.2	4894.0	3743.8	3031.4	3231.7	3907.0	4333.7	4452.5	5109.2
32.5°	7357.7	7328.0	7005.2	6092.4	4816.1	3573.1	3339.3	3966.4	4382.0	4497.0	5239.1
35°	8266.7	8162.8	7836.3	7012.6	5702.8	4389.4	3710.4	4248.4	4593.4	4730.7	5424.6
37.5°	8715.7	8760.2	8571.0	7854.9	6675.0	5146.3	4174.2	4248.4	4660.2	4819.8	5725.1
40°	9064.4	9198.0	9127.5	8897.5	7639.7	5999.7	4686.2	4511.8	4997.9	5298.4	6289.1
42.5°	9483.7	9420.6	9836.2	9624.7	8901.2	7075.7	5584.1	5138.9	5795.6	6085.0	7135.1
45°	9706.3	9947.5	10262.9	10533.8	10070.0	8418.8	6756.6	6248.3	7016.3	7383.6	8392.9
47.5°	10277.7	10374.2	10886.2	11227.6	11019.8	9954.9	8537.6	7869.7	8552.4	9131.2	9832.5
50°	10611.7	10481.8	11197.9	11717.4	11836.1	11227.6	10133.0	9613.6	10377.9	11116.3	11179.4
52.5°	10318.6	10689.6	11405.7	12337.0	12667.2	12363.0	12006.8	11780.4	12318.5	13001.2	12696.9
55°	9290.8	9543.1	11287.0	13016.0	14080.9	13939.9	14270.1	14121.7	14663.4	15386.9	14470.5
57.5°	8463.4	8778.8	10311.1	13368.5	15398.1	15813.6	16229.2	16136.4	16789.5	17624.3	15973.2
60°	7947.6	8129.4	9606.2	13279.4	16177.2	17750.4	18689.2	18036.1	19101.0	19739.2	17149.4
62.5°	7053.4	7168.4	8578.4	12099.5	16411.0	19119.6	20711.3	19824.5	20748.4	21527.6	17995.3
65°	5654.6	5966.3	7131.3	10333.4	14867.5	19371.9	21972.8	20930.2	21824.4	22336.5	18251.3
66°	5146.3	5372.6	6441.2	9398.4	13988.1	18952.6	21761.4	21160.3	21980.3	22447.8	17858.0
67.5°	4270.6	4467.3	5317.0	8066.4	12188.6	18028.7	21909.8	21004.4	22099.0	21813.3	17331.2
70°	2827.3	2953.5	3636.2	5454.3	8489.3	14748.7	20321.7	19787.4	19427.5	18355.2	13550.3
72.5°	1320.9	1502.7	2270.8	3305.9	4979.3	10318.6	16570.5	15854.4	13624.5	11910.3	8548.7
75°	597.4	679.0	1246.7	1896.0	2233.6	5346.7	10689.6	9654.4	6782.6	5632.4	3743.8
77.5°	322.8	367.3	608.5	901.6	812.6	1873.7	5291.0	4400.5	2137.2	1565.8	1087.1
80°	248.6	293.1	508.3	515.7	300.5	486.1	1966.5	1361.7	534.3	404.4	259.7
82.5°	129.9	185.5	400.7	333.9	152.1	196.6	608.5	378.5	167.0	133.6	111.3
85°	51.9	81.6	226.3	222.6	89.0	66.8	170.7	115.0	66.8	55.7	51.9
87.5°	3.7	3.7	122.4	85.3	55.7	18.6	26.0	26.0	33.4	29.7	37.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P482866
 CATALOG NUMBER: IFLD-L-SA8A-740-U-T3R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3933.0	3933.0	3933.0	3933.0	3933.0	3933.0	3933.0	3933.0	3933.0	3933.0	3933.0
2.5°	4029.5	4074.0	4081.4	4203.9	4229.8	4203.9	4270.6	4259.5	4289.2	4266.9	4226.1
5°	4122.2	4185.3	4307.7	4400.5	4400.5	4326.3	4266.9	4189.0	4074.0	4044.3	4022.0
7.5°	4281.8	4482.1	4593.4	4534.1	4415.3	4137.1	3751.2	3469.2	3231.7	3142.7	3101.9
10°	4563.8	4675.1	4804.9	4563.8	4070.3	3480.3	2831.0	2404.3	2070.4	1996.2	1940.5
12.5°	4745.6	4923.7	4997.9	4400.5	3432.1	2552.7	1847.8	1365.4	1131.7	953.6	923.9
15°	4983.0	5187.1	5035.0	3959.0	2704.9	1673.4	957.3	597.4	486.1	456.4	456.4
17.5°	5146.3	5368.9	4882.9	3409.8	1918.3	890.5	474.9	411.9	404.4	408.1	400.7
20°	5432.0	5565.6	4652.8	2771.7	1146.5	456.4	382.2	367.3	359.9	371.0	363.6
22.5°	5539.6	5662.0	4278.1	2007.3	515.7	304.3	285.7	274.6	282.0	278.3	274.6
25°	5532.2	5595.2	3662.1	1150.2	152.1	118.7	107.6	107.6	100.2	103.9	100.2
27.5°	5587.8	5432.0	2972.0	341.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30°	5617.5	5168.6	2114.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	5632.4	5031.3	1361.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	5747.4	4756.7	582.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	5825.3	4404.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	6148.1	4292.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	6567.4	4085.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	7149.9	3777.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	7921.7	3595.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	8496.8	3309.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	9227.7	3139.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	10095.9	3146.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	10886.2	3094.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	11290.7	2645.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	11205.3	2140.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	10908.5	1680.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	10704.4	1487.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	10084.8	1191.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	8025.5	816.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	5105.5	500.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	2352.4	230.0	7.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	738.4	141.0	29.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	192.9	89.0	29.7	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	100.2	63.1	26.0	11.1	7.4	0.0	0.0	0.0	0.0	0.0	0.0
85°	63.1	26.0	11.1	7.4	7.4	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	55.7	14.8	7.4	7.4	3.7	0.0	0.0	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)