

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: P482900

Luminaire Tested: **IFLD-L-SA7A-750-U-T3R-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P482900
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7A-750-U-T3R-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R
distribution lens with House Side Shield
Light Source: (112) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

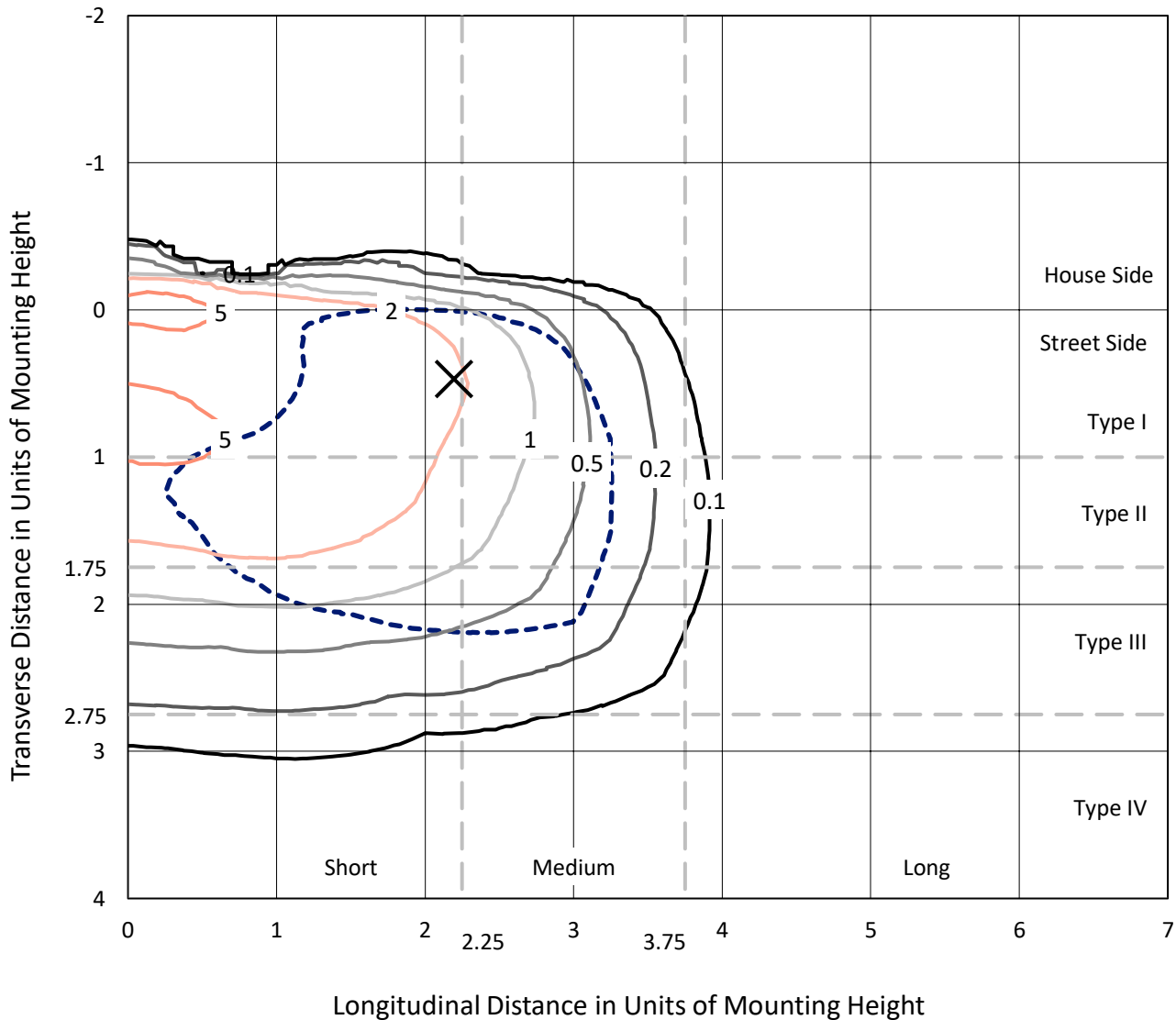
Lumens per Lamp: N/A
Luminaire Lumens: 22950.6 lumens
Efficiency: N/A
Efficacy: 105.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 217.6
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

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Iso-Footcandle Lines of Horizontal Illumination

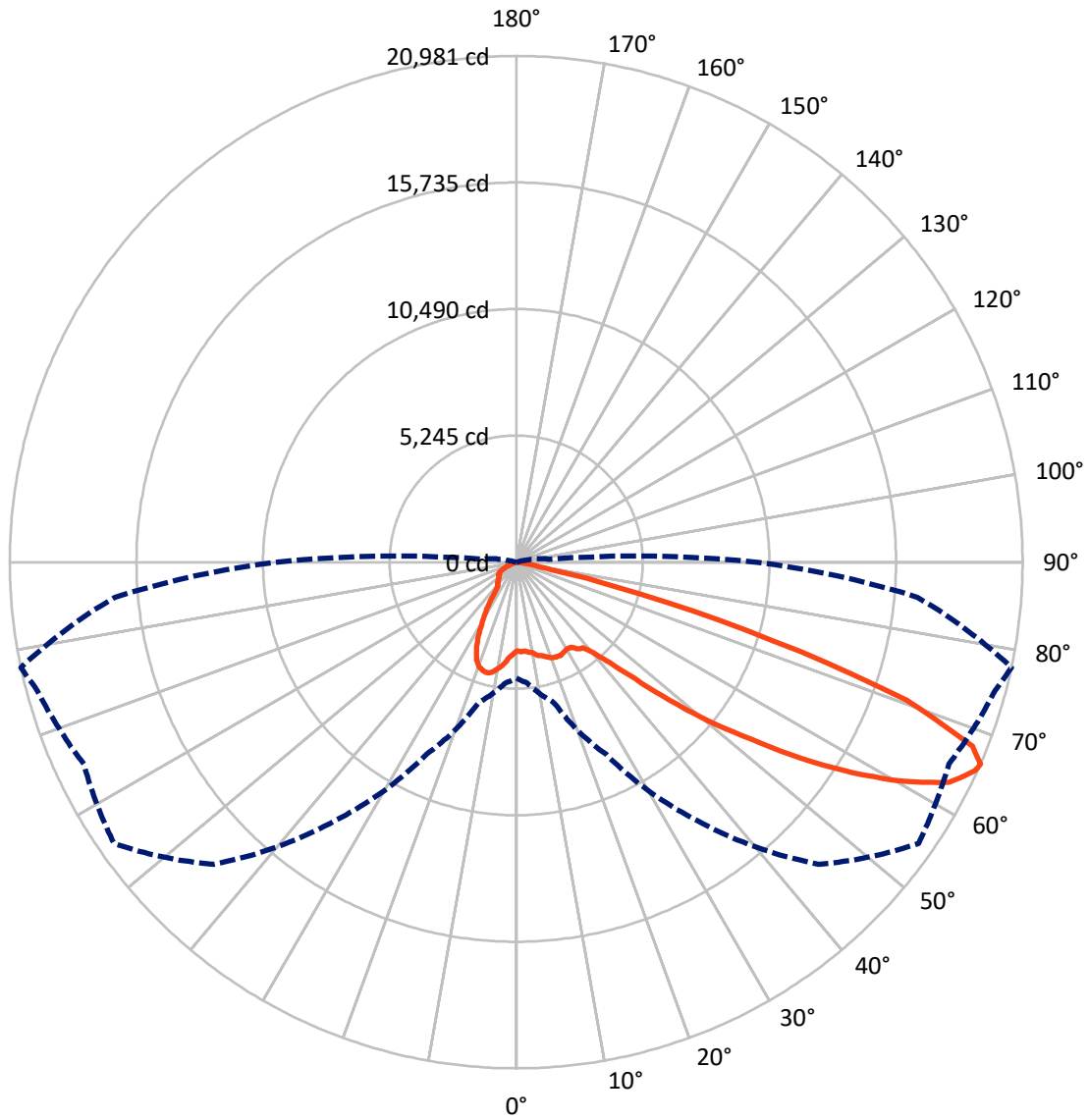
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 fc
 Type III - Short - N/A

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CATALOG NUMBER: IFLD-L-SA7A-750-U-T3R-HSS

Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1613.5	0.0	1613.5
	% Fixture	7.0	0.0	7.0
Street Side	Lumens	21337.1	0.0	21337.1
	% Fixture	93.0	0.0	93.0
Total	Lumens	22950.6	0.0	22950.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	336.3	1.5
10°-20°	759.1	3.3
20°-30°	1085.0	4.7
30°-40°	1857.3	8.1
40°-50°	3352.2	14.6
50°-60°	5732.8	25.0
60°-70°	7056.0	30.7
70°-80°	2667.6	11.6
80°-90°	104.2	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°	22950.6	100.0
0°-180°	22950.6	100.0

Coefficient of Utilization

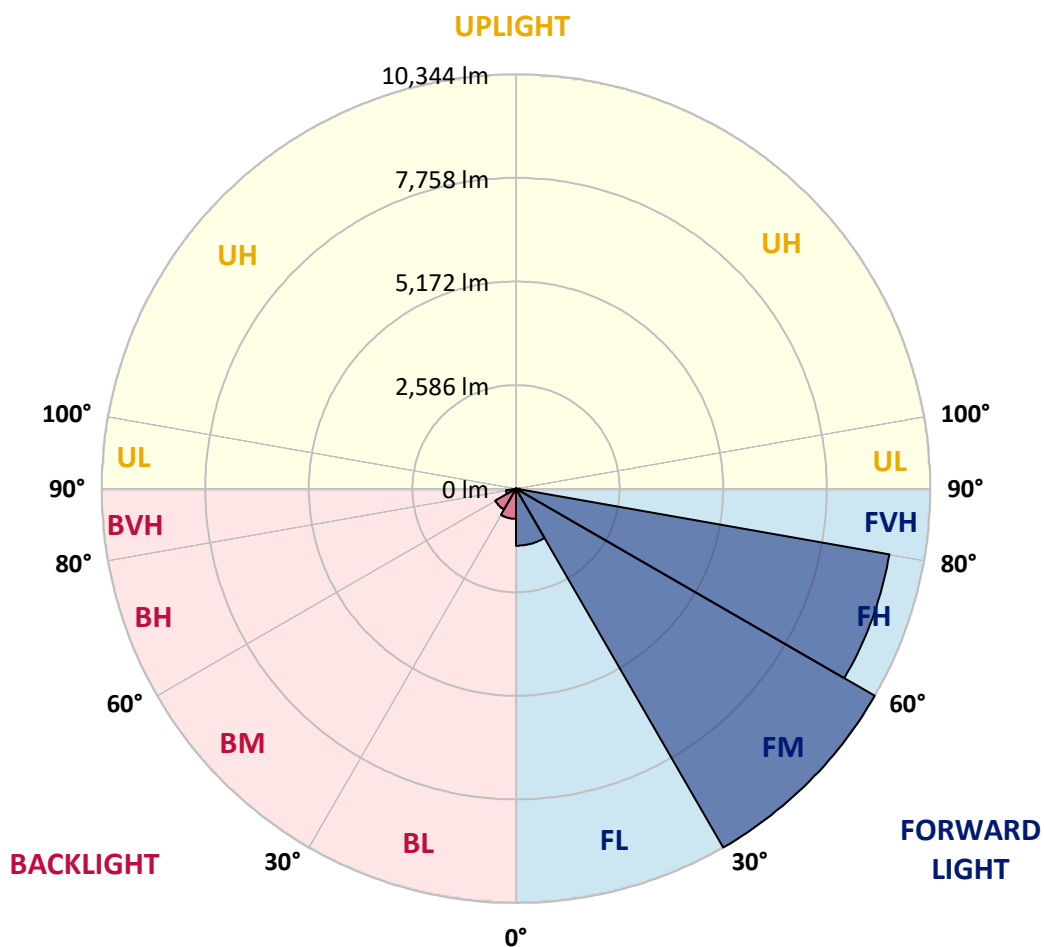


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1424.8	6.2			
FM (30°-60°)	10344.3	45.1			
FH (60°-80°)	9468.0	41.3			G4/12000
FVH (80°-90°)	100.0	0.4			G2/225
BL (0°-30°)	755.7	3.3	B2/1000		
BM (30°-60°)	598.0	2.6	B1/1000		
BH (60°-80°)	255.6	1.1	B1/500		G1/500
BVH (80°-90°)	4.2	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	3675.9	3675.9	3675.9	3675.9	3675.9	3675.9	3675.9	3675.9	3675.9	3675.9	3675.9
2.5°	3381.2	3350.0	3381.2	3426.3	3450.5	3471.3	3544.2	3606.6	3672.5	3717.6	3703.7
5°	3135.0	3193.9	3200.8	3214.7	3252.9	3377.7	3419.3	3526.8	3689.8	3703.7	3766.1
7.5°	2940.8	2923.4	2968.5	3058.7	3155.8	3228.6	3350.0	3537.2	3707.2	3766.1	3887.5
10°	2659.9	2694.5	2743.1	2833.3	2951.2	3131.5	3346.5	3554.6	3797.3	3818.1	4043.5
12.5°	2507.3	2472.6	2548.9	2642.5	2843.7	3010.1	3273.7	3523.4	3852.8	3967.2	4227.3
15°	2382.4	2399.8	2472.6	2535.0	2701.5	2913.0	3221.7	3599.7	3946.4	4026.2	4421.5
17.5°	2330.4	2320.0	2375.5	2437.9	2642.5	2881.8	3200.8	3603.1	4029.7	4133.7	4553.3
20°	2354.7	2375.5	2358.2	2417.1	2545.4	2788.2	3232.1	3669.0	4092.1	4234.3	4695.5
22.5°	2736.2	2708.4	2569.7	2458.7	2465.7	2750.0	3207.8	3710.6	4147.6	4262.0	4792.6
25°	3731.4	3582.3	3239.0	2812.4	2531.5	2646.0	3180.0	3696.8	4137.2	4279.4	4851.6
27.5°	4733.6	4605.3	4269.0	3606.6	2798.6	2604.4	3082.9	3707.2	4085.2	4216.9	4754.5
30°	5791.3	5860.7	5361.3	4574.1	3499.1	2833.3	3020.5	3651.7	4050.5	4161.4	4775.3
32.5°	6876.8	6849.0	6547.3	5694.2	4501.3	3339.6	3121.1	3707.2	4095.6	4203.1	4896.6
35°	7726.4	7629.3	7324.1	6554.3	5330.1	4102.5	3467.9	3970.7	4293.2	4421.5	5070.0
37.5°	8146.0	8187.6	8010.8	7341.5	6238.7	4809.9	3901.4	3970.7	4355.6	4504.8	5350.9
40°	8472.0	8596.9	8531.0	8316.0	7140.3	5607.5	4379.9	4216.9	4671.2	4952.1	5878.0
42.5°	8863.9	8804.9	9193.3	8995.7	8319.4	6613.2	5219.1	4803.0	5416.8	5687.3	6668.7
45°	9072.0	9297.4	9592.1	9845.3	9411.8	7868.6	6315.0	5839.9	6557.7	6901.1	7844.3
47.5°	9606.0	9696.2	10174.7	10493.8	10299.6	9304.3	7979.6	7355.4	7993.4	8534.4	9189.9
50°	9918.1	9796.7	10466.0	10951.5	11062.5	10493.8	9470.8	8985.3	9699.6	10389.7	10448.7
52.5°	9644.2	9990.9	10660.2	11530.7	11839.3	11555.0	11222.0	11010.5	11513.3	12151.4	11867.1
55°	8683.6	8919.4	10549.3	12165.3	13160.6	13028.8	13337.4	13198.7	13705.0	14381.3	13524.7
57.5°	7910.2	8205.0	9637.2	12494.7	14391.7	14780.1	15168.5	15081.8	15692.1	16472.4	14929.2
60°	7428.2	7598.1	8978.3	12411.5	15119.9	16590.3	17467.7	16857.3	17852.6	18449.1	16028.5
62.5°	6592.4	6699.9	8017.7	11308.7	15338.4	17869.9	19357.7	18528.8	19392.3	20120.6	16819.2
65°	5285.0	5576.3	6665.3	9658.0	13895.8	18105.8	20536.7	19562.3	20398.0	20876.6	17058.5
66°	4809.9	5021.5	6020.2	8784.1	13073.9	17713.9	20339.1	19777.3	20543.7	20980.6	16690.9
67.5°	3991.5	4175.3	4969.5	7539.2	11392.0	16850.4	20477.8	19631.6	20654.6	20387.6	16198.4
70°	2642.5	2760.4	3398.5	5097.8	7934.5	13784.8	18993.5	18494.2	18157.8	17155.6	12664.7
72.5°	1234.6	1404.5	2122.3	3089.9	4653.9	9644.2	15487.5	14818.2	12734.0	11131.9	7990.0
75°	558.3	634.6	1165.2	1772.1	2087.7	4997.2	9990.9	9023.4	6339.3	5264.2	3499.1
77.5°	301.7	343.3	568.7	842.7	759.5	1751.3	4945.2	4112.9	1997.5	1463.4	1016.1
80°	232.3	274.0	475.1	482.0	280.9	454.3	1838.0	1272.7	499.4	378.0	242.8
82.5°	121.4	173.4	374.5	312.1	142.2	183.8	568.7	353.7	156.1	124.8	104.0
85°	48.6	76.3	211.5	208.1	83.2	62.4	159.5	107.5	62.4	52.0	48.6
87.5°	3.5	3.5	114.4	79.8	52.0	17.3	24.3	24.3	31.2	27.7	34.7
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°	3675.9	3675.9	3675.9	3675.9	3675.9	3675.9	3675.9	3675.9	3675.9	3675.9	3675.9
2.5°	3766.1	3807.7	3814.7	3929.1	3953.4	3929.1	3991.5	3981.1	4008.9	3988.1	3949.9
5°	3852.8	3911.8	4026.2	4112.9	4112.9	4043.5	3988.1	3915.2	3807.7	3780.0	3759.2
7.5°	4001.9	4189.2	4293.2	4237.7	4126.8	3866.7	3506.0	3242.5	3020.5	2937.3	2899.1
10°	4265.5	4369.5	4490.9	4265.5	3804.3	3252.9	2646.0	2247.2	1935.1	1865.7	1813.7
12.5°	4435.4	4601.9	4671.2	4112.9	3207.8	2385.9	1727.0	1276.2	1057.7	891.2	863.5
15°	4657.4	4848.1	4705.9	3700.2	2528.1	1564.0	894.7	558.3	454.3	426.5	426.5
17.5°	4809.9	5018.0	4563.7	3187.0	1792.9	832.3	443.9	384.9	378.0	381.5	374.5
20°	5077.0	5201.8	4348.7	2590.5	1071.6	426.5	357.2	343.3	336.4	346.8	339.9
22.5°	5177.5	5292.0	3998.5	1876.1	482.0	284.4	267.0	256.6	263.6	260.1	256.6
25°	5170.6	5229.6	3422.8	1075.0	142.2	111.0	100.6	100.6	93.6	97.1	93.6
27.5°	5222.6	5077.0	2777.8	319.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30°	5250.4	4830.7	1976.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	5264.2	4702.4	1272.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	5371.7	4445.8	544.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	5444.6	4116.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	5746.3	4012.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	6138.1	3818.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	6682.6	3530.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	7403.9	3360.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	7941.4	3093.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	8624.6	2933.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	9436.1	2940.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	10174.7	2892.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	10552.7	2472.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	10473.0	2001.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	10195.5	1570.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	10004.8	1390.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	9425.7	1113.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	7501.0	762.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	4771.8	468.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	2198.6	215.0	6.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	690.1	131.8	27.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	180.3	83.2	27.7	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	93.6	59.0	24.3	10.4	6.9	0.0	0.0	0.0	0.0	0.0	0.0
85°	59.0	24.3	10.4	6.9	6.9	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	52.0	13.9	6.9	6.9	3.5	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)