

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: P483023

Luminaire Tested: **IFLD-L-SA8B-830-U-T3R-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P483023
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8B-830-U-T3R-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R
distribution lens with House Side Shield
Light Source: (128) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

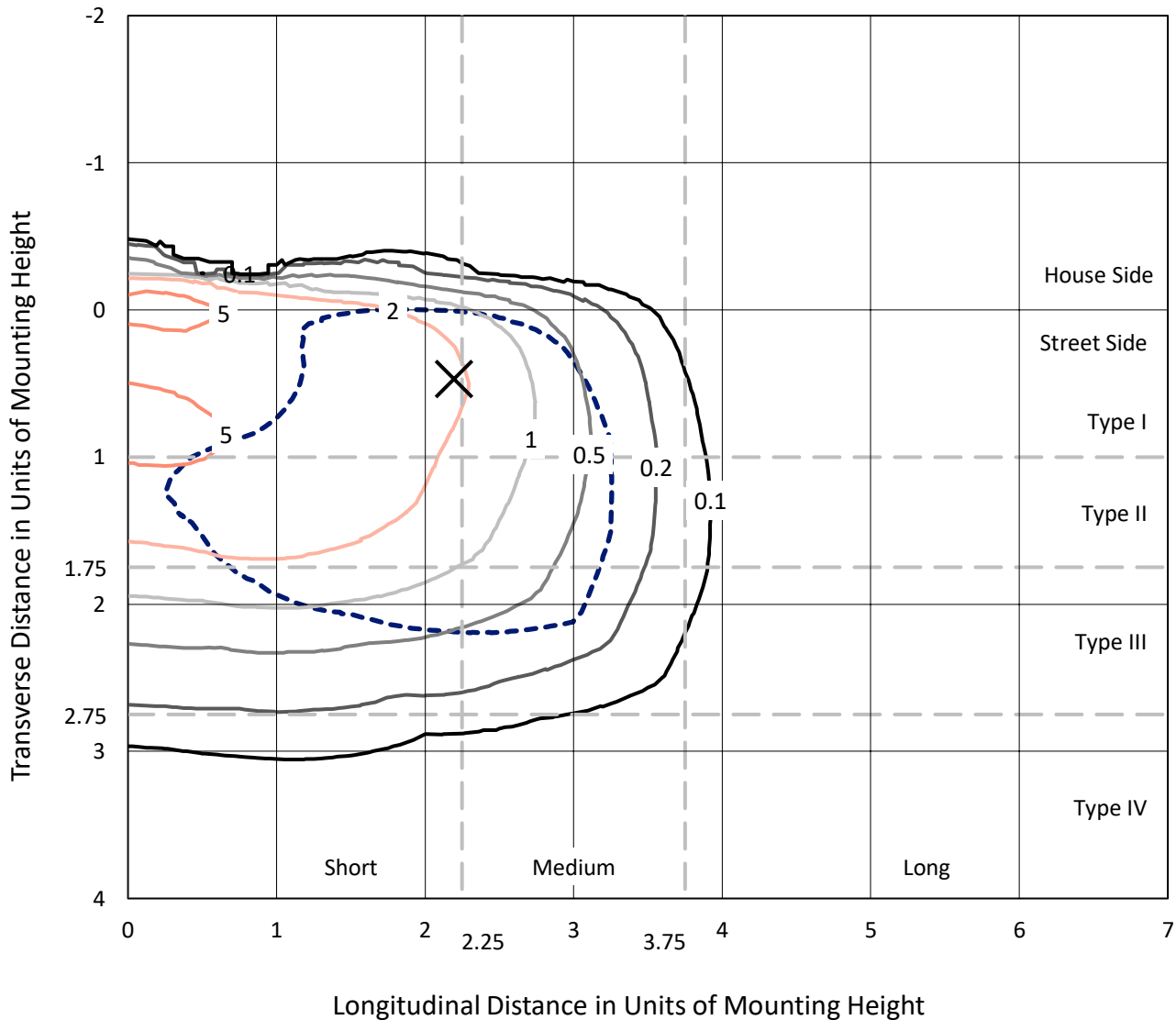
Lumens per Lamp: N/A
Luminaire Lumens: 23181.3 lumens
Efficiency: N/A
Efficacy: 72.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 320
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

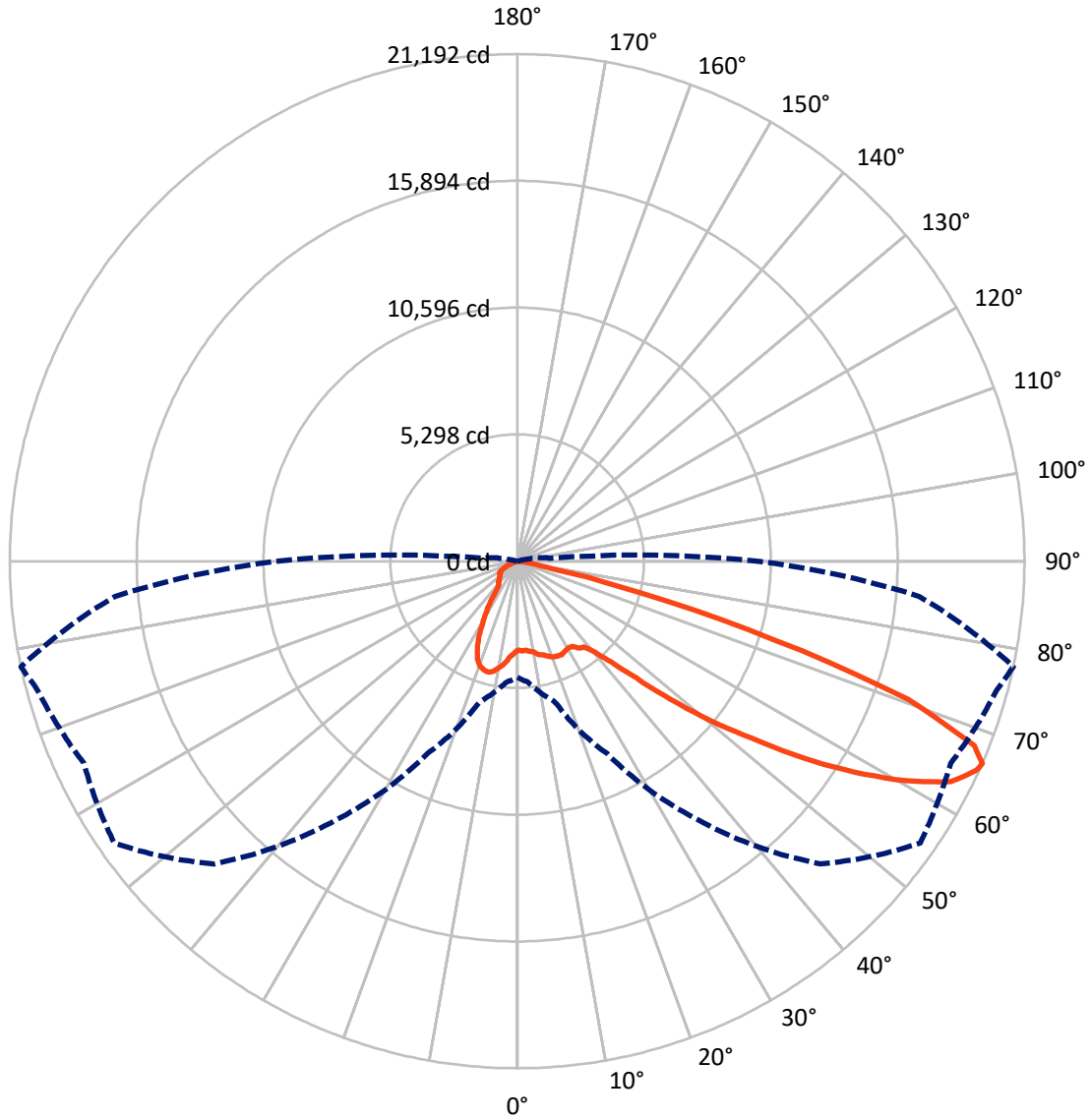
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 fc
 Type III - Short - N/A

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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	1629.8	0.0	1629.8
	% Fixture	7.0	0.0	7.0
Street Side	Lumens	21551.6	0.0	21551.6
	% Fixture	93.0	0.0	93.0
Total	Lumens	23181.3	0.0	23181.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	339.7	1.5
10°-20°	766.8	3.3
20°-30°	1096.0	4.7
30°-40°	1876.0	8.1
40°-50°	3385.9	14.6
50°-60°	5790.4	25.0
60°-70°	7127.0	30.7
70°-80°	2694.4	11.6
80°-90°	105.2	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°	23181.3	100.0
0°-180°	23181.3	100.0

Coefficient of Utilization

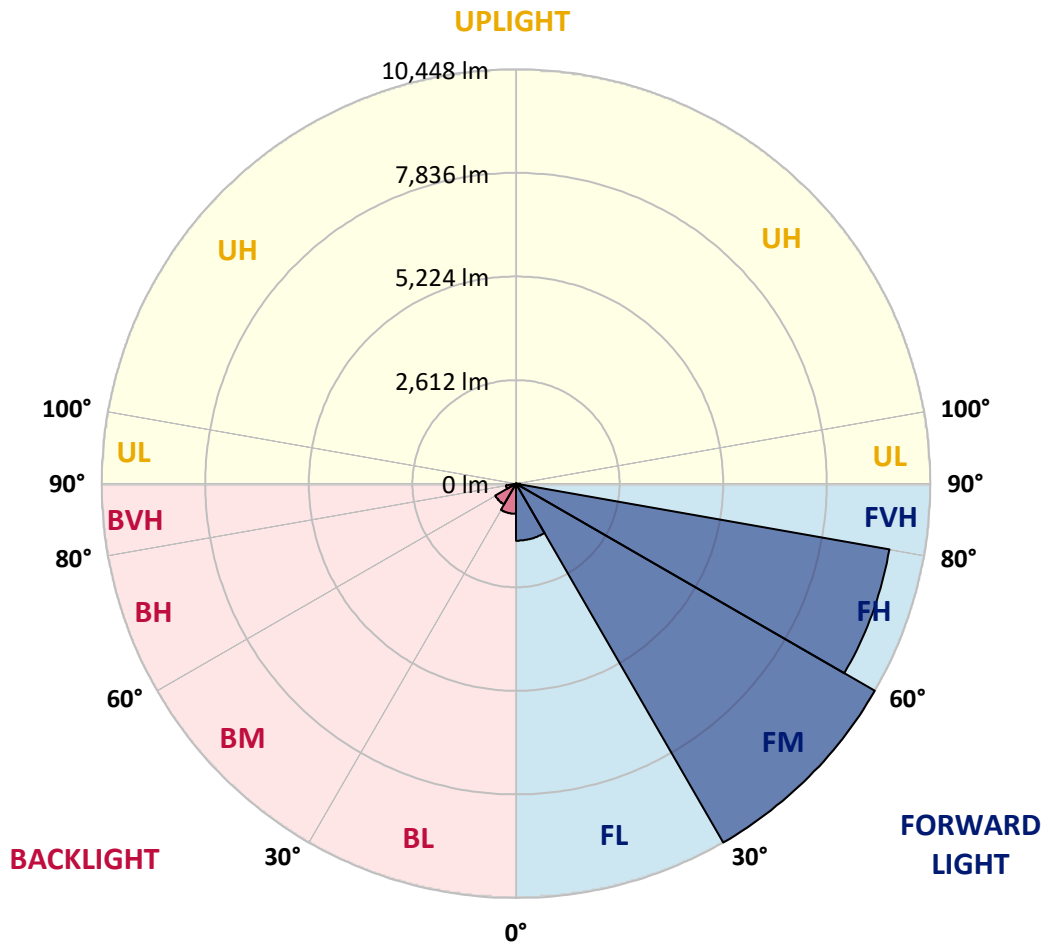


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1439.1	6.2			
FM (30°-60°)	10448.3	45.1			
FH (60°-80°)	9563.2	41.3			G4/12000
FVH (80°-90°)	101.0	0.4			G2/225
BL (0°-30°)	763.3	3.3	B2/1000		
BM (30°-60°)	604.0	2.6	B1/1000		
BH (60°-80°)	258.2	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°	3712.9	3712.9	3712.9	3712.9	3712.9	3712.9	3712.9	3712.9	3712.9	3712.9	3712.9
2.5°	3415.2	3383.6	3415.2	3460.7	3485.2	3506.2	3579.8	3642.8	3709.4	3754.9	3740.9
5°	3166.5	3226.0	3233.0	3247.0	3285.6	3411.7	3453.7	3562.3	3726.9	3740.9	3804.0
7.5°	2970.3	2952.8	2998.3	3089.4	3187.5	3261.0	3383.6	3572.8	3744.4	3804.0	3926.6
10°	2686.6	2721.6	2770.7	2861.7	2980.8	3163.0	3380.1	3590.3	3835.5	3856.5	4084.2
12.5°	2532.5	2497.4	2574.5	2669.1	2872.2	3040.4	3306.6	3558.8	3891.5	4007.1	4269.8
15°	2406.4	2423.9	2497.4	2560.5	2728.6	2942.3	3254.0	3635.8	3986.1	4066.7	4466.0
17.5°	2353.8	2343.3	2399.4	2462.4	2669.1	2910.8	3233.0	3639.3	4070.2	4175.3	4599.1
20°	2378.4	2399.4	2381.9	2441.4	2571.0	2816.2	3264.5	3705.9	4133.2	4276.8	4742.7
22.5°	2763.7	2735.6	2595.5	2483.4	2490.4	2777.7	3240.0	3747.9	4189.3	4304.9	4840.8
25°	3768.9	3618.3	3271.6	2840.7	2557.0	2672.6	3212.0	3733.9	4178.8	4322.4	4900.3
27.5°	4781.2	4651.6	4311.9	3642.8	2826.7	2630.6	3113.9	3744.4	4126.2	4259.3	4802.2
30°	5849.6	5919.6	5415.2	4620.1	3534.3	2861.7	3050.9	3688.4	4091.2	4203.3	4823.3
32.5°	6945.9	6917.9	6613.2	5751.5	4546.5	3373.1	3152.5	3744.4	4136.7	4245.3	4945.9
35°	7804.1	7706.0	7397.8	6620.2	5383.7	4143.7	3502.7	4010.6	4336.4	4466.0	5121.0
37.5°	8227.9	8270.0	8091.3	7415.3	6301.4	4858.3	3940.6	4010.6	4399.4	4550.1	5404.7
40°	8557.2	8683.3	8616.7	8399.6	7212.1	5663.9	4424.0	4259.3	4718.2	5001.9	5937.1
42.5°	8953.0	8893.4	9285.7	9086.1	8403.1	6679.7	5271.6	4851.3	5471.3	5744.5	6735.8
45°	9163.2	9390.8	9688.6	9944.3	9506.4	7947.7	6378.5	5898.6	6623.7	6970.4	7923.2
47.5°	9702.6	9793.6	10277.0	10599.3	10403.1	9397.8	8059.8	7429.3	8073.8	8620.2	9282.2
50°	10017.8	9895.2	10571.3	11061.6	11173.7	10599.3	9566.0	9075.6	9797.1	10494.2	10553.7
52.5°	9741.1	10091.4	10767.4	11646.6	11958.3	11671.1	11334.8	11121.2	11629.1	12273.6	11986.4
55°	8770.8	9009.0	10655.3	12287.6	13292.9	13159.8	13471.5	13331.4	13842.8	14525.8	13660.7
57.5°	7989.7	8287.5	9734.1	12620.4	14536.3	14928.7	15321.0	15233.4	15849.9	16638.0	15079.3
60°	7502.9	7674.5	9068.6	12536.3	15271.9	16757.1	17643.3	17026.8	18032.1	18634.5	16189.6
62.5°	6658.7	6767.3	8098.3	11422.4	15492.6	18049.6	19552.3	18715.1	19587.3	20322.9	16988.3
65°	5338.2	5632.4	6732.3	9755.1	14035.5	18287.8	20743.2	19758.9	20603.1	21086.5	17230.0
66°	4858.3	5072.0	6080.7	8872.4	13205.3	17892.0	20543.5	19976.1	20750.2	21191.5	16858.7
67.5°	4031.6	4217.3	5019.4	7614.9	11506.5	17019.8	20683.6	19829.0	20862.3	20592.6	16361.3
70°	2669.1	2788.2	3432.7	5149.0	8014.3	13923.4	19184.5	18680.1	18340.3	17328.0	12792.0
72.5°	1247.0	1418.6	2143.7	3120.9	4700.7	9741.1	15643.2	14967.2	12862.0	11243.8	8070.3
75°	563.9	641.0	1176.9	1789.9	2108.6	5047.4	10091.4	9114.1	6403.0	5317.2	3534.3
77.5°	304.7	346.8	574.4	851.2	767.1	1768.9	4994.9	4154.2	2017.6	1478.2	1026.3
80°	234.7	276.7	479.9	486.9	283.7	458.9	1856.4	1285.5	504.4	381.8	245.2
82.5°	122.6	175.1	378.3	315.2	143.6	185.6	574.4	357.3	157.6	126.1	105.1
85°	49.0	77.1	213.7	210.2	84.1	63.0	161.1	108.6	63.0	52.5	49.0
87.5°	3.5	3.5	115.6	80.6	52.5	17.5	24.5	24.5	31.5	28.0	35.0
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°	3712.9	3712.9	3712.9	3712.9	3712.9	3712.9	3712.9	3712.9	3712.9	3712.9	3712.9
2.5°	3804.0	3846.0	3853.0	3968.6	3993.1	3968.6	4031.6	4021.1	4049.2	4028.1	3989.6
5°	3891.5	3951.1	4066.7	4154.2	4154.2	4084.2	4028.1	3954.6	3846.0	3818.0	3797.0
7.5°	4042.2	4231.3	4336.4	4280.3	4168.3	3905.5	3541.3	3275.1	3050.9	2966.8	2928.3
10°	4308.4	4413.4	4536.0	4308.4	3842.5	3285.6	2672.6	2269.8	1954.5	1884.5	1831.9
12.5°	4480.0	4648.1	4718.2	4154.2	3240.0	2409.9	1744.4	1289.0	1068.3	900.2	872.2
15°	4704.2	4896.8	4753.2	3737.4	2553.5	1579.7	903.7	563.9	458.9	430.8	430.8
17.5°	4858.3	5068.5	4609.6	3219.0	1810.9	840.7	448.4	388.8	381.8	385.3	378.3
20°	5128.0	5254.1	4392.4	2616.5	1082.3	430.8	360.8	346.8	339.8	350.3	343.3
22.5°	5229.6	5345.2	4038.7	1895.0	486.9	287.2	269.7	259.2	266.2	262.7	259.2
25°	5222.6	5282.1	3457.2	1085.8	143.6	112.1	101.6	101.6	94.6	98.1	94.6
27.5°	5275.1	5128.0	2805.7	322.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30°	5303.1	4879.3	1996.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	5317.2	4749.7	1285.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	5425.7	4490.5	549.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	5499.3	4157.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	5804.0	4052.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	6199.8	3856.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	6749.8	3565.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	7478.3	3394.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	8021.3	3124.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	8711.3	2963.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	9530.9	2970.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	10277.0	2921.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	10658.8	2497.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	10578.3	2021.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	10298.0	1586.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	10105.4	1404.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	9520.4	1124.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	7576.4	770.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	4819.8	472.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	2220.7	217.2	7.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	697.0	133.1	28.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	182.1	84.1	28.0	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	94.6	59.5	24.5	10.5	7.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	59.5	24.5	10.5	7.0	7.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	52.5	14.0	7.0	7.0	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)