

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: P482096

Luminaire Tested: **IFLD-S-SA3B-750-U-T2R-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P482096
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3B-750-U-T2R-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens with House Side Shield
Light Source: (48) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

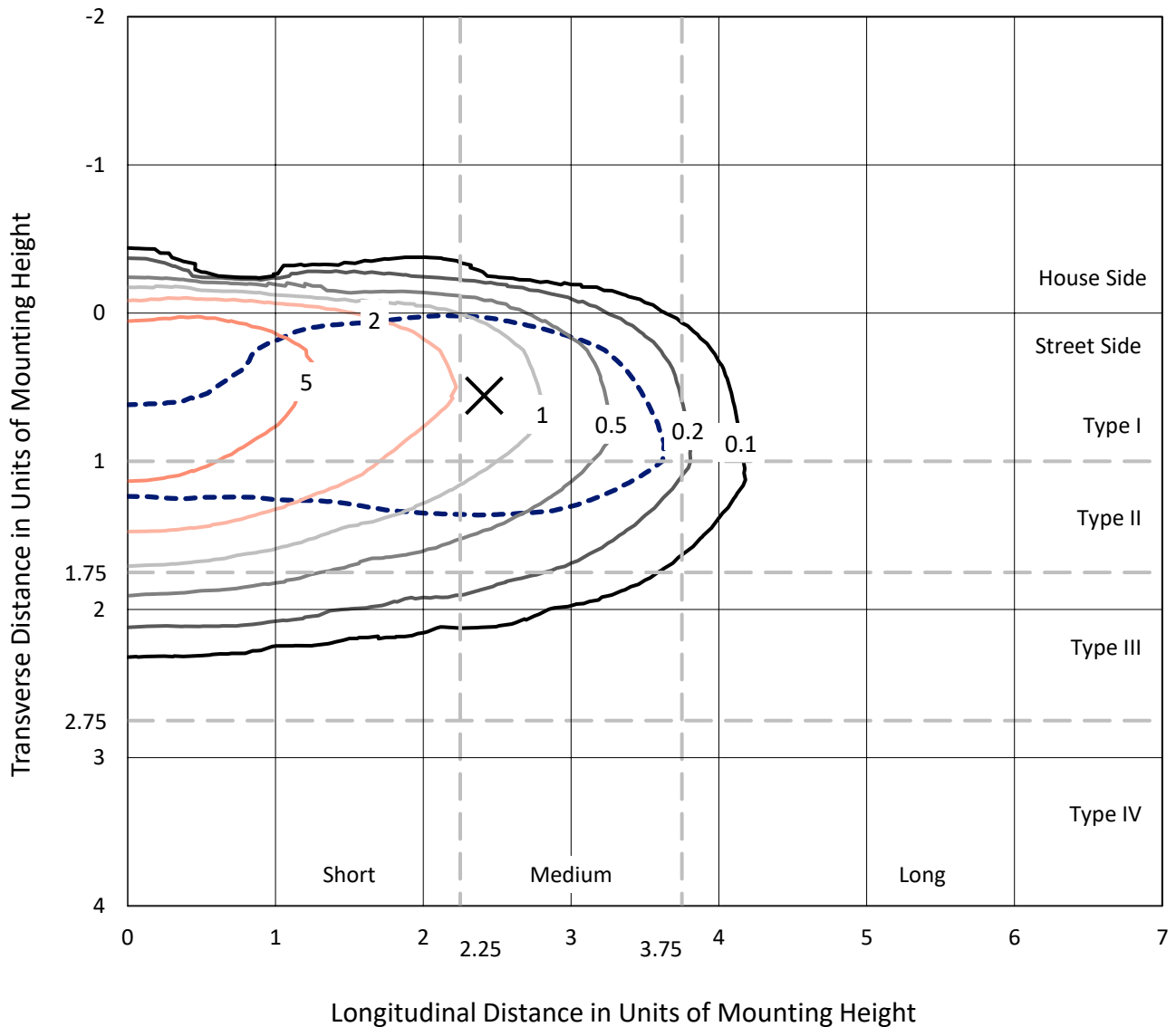
Lumens per Lamp: N/A
Luminaire Lumens: 13684.4 lumens
Efficiency: N/A
Efficacy: 111.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 122.4
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

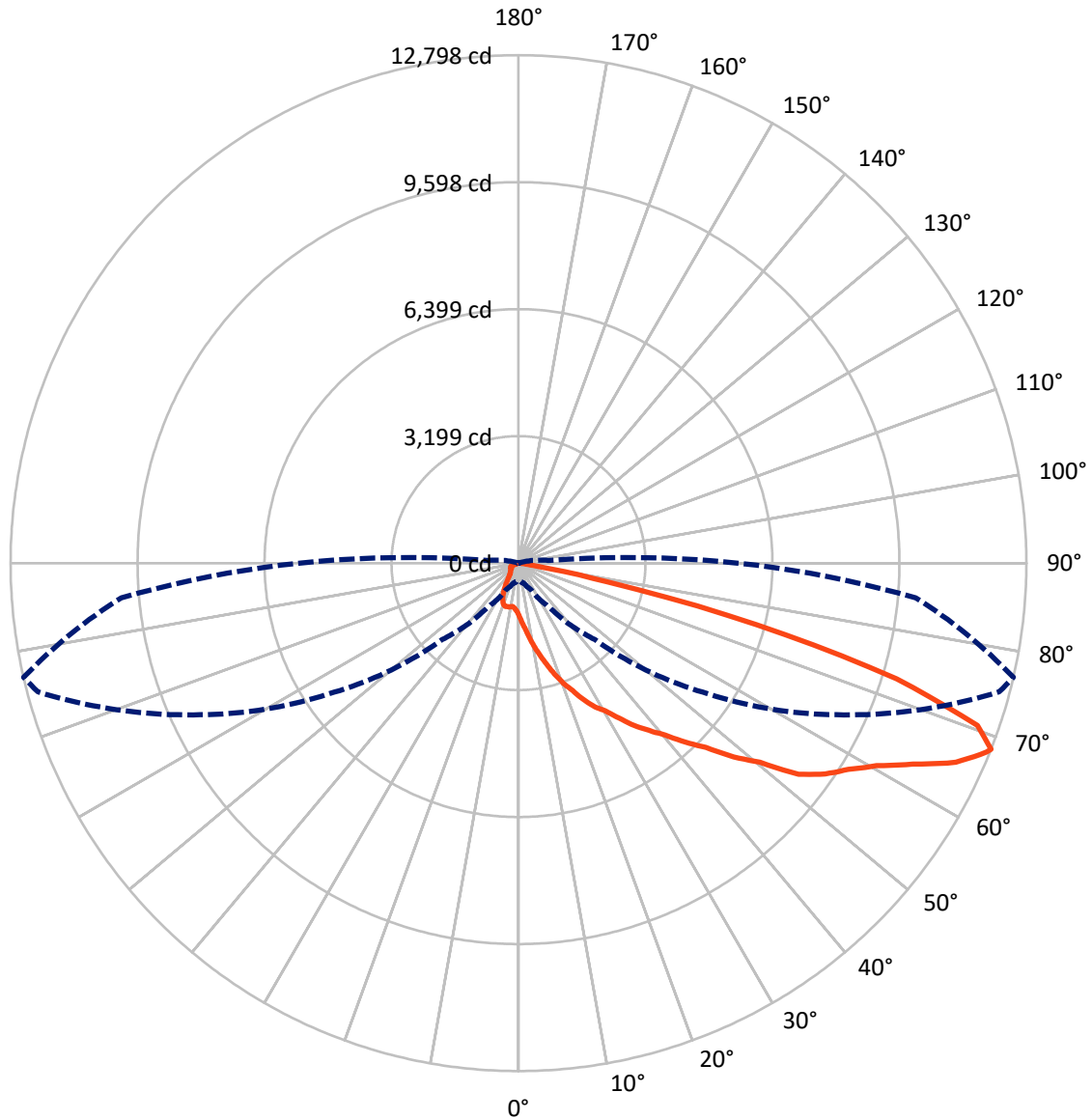
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 9.7 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 68-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	620.6	0.0	620.6
	% Fixture	4.5	0.0	4.5
Street Side	Lumens	13063.8	0.0	13063.8
	% Fixture	95.5	0.0	95.5
Total	Lumens	13684.4	0.0	13684.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.1	1.1
10°-20°	564.6	4.1
20°-30°	1094.1	8.0
30°-40°	1907.5	13.9
40°-50°	2793.6	20.4
50°-60°	3282.1	24.0
60°-70°	2771.4	20.3
70°-80°	1074.3	7.9
80°-90°	43.7	0.3
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°	13684.4	100.0
0°-180°	13684.4	100.0

Coefficient of Utilization

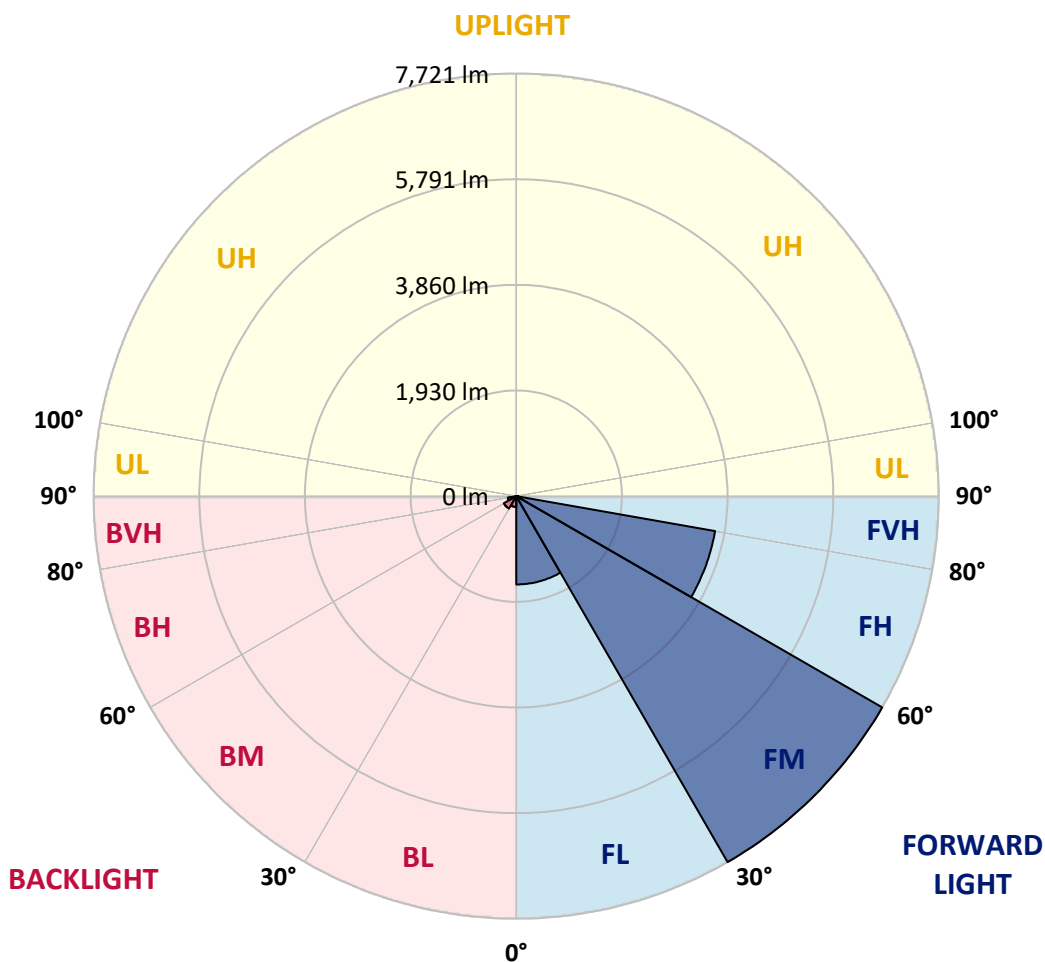


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1613.5	11.8			
FM (30°-60°)	7721.0	56.4			
FH (60°-80°)	3689.0	27.0			G2/5000
FVH (80°-90°)	40.3	0.3			G1/100
BL (0°-30°)	198.3	1.4	B1/500		
BM (30°-60°)	262.2	1.9	B1/1000		
BH (60°-80°)	156.7	1.1	B1/500		G1/500
BVH (80°-90°)	3.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2
 Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	1310.3	1310.3	1310.3	1310.3	1310.3	1310.3	1310.3	1310.3	1310.3	1310.3	1310.3
2.5°	1990.9	1953.2	1913.6	1902.3	1828.8	1745.8	1668.5	1593.1	1466.8	1468.7	1381.9
5°	2565.9	2518.8	2486.7	2479.2	2364.2	2220.9	2104.0	1891.0	1681.7	1634.6	1476.2
7.5°	3039.1	3024.1	2976.9	2937.3	2852.5	2677.2	2539.5	2234.1	1915.5	1862.7	1591.2
10°	3325.7	3348.3	3369.1	3318.2	3252.2	3125.9	2937.3	2607.4	2181.3	2115.3	1740.2
12.5°	3631.1	3593.4	3606.6	3648.1	3561.4	3533.1	3299.3	2992.0	2492.4	2366.1	1928.7
15°	3710.3	3725.4	3757.4	3878.1	3936.5	3855.5	3653.8	3303.1	2814.8	2639.4	2104.0
17.5°	3763.1	3755.6	3795.2	3976.1	4064.8	4142.0	4015.7	3650.0	3095.7	2939.2	2322.7
20°	3829.1	3787.6	3874.3	3989.3	4194.8	4357.0	4351.3	3998.8	3389.8	3223.9	2539.5
22.5°	4074.2	4042.1	4111.9	4123.2	4266.5	4492.7	4547.4	4283.4	3691.5	3487.8	2773.3
25°	4526.7	4585.1	4502.1	4430.5	4473.9	4622.8	4662.4	4536.1	3995.0	3808.3	3007.1
27.5°	5188.4	5180.9	5016.8	4924.5	4820.8	4801.9	4830.2	4771.7	4234.4	4100.6	3199.4
30°	5899.2	5837.0	5686.1	5463.7	5235.5	5094.1	5054.5	4994.2	4515.3	4321.2	3389.8
32.5°	6464.8	6498.7	6330.9	6040.6	5661.6	5471.2	5280.8	5214.8	4824.5	4653.0	3608.5
35°	6985.1	6939.9	6806.0	6560.9	6221.6	5914.3	5616.4	5475.0	5195.9	5026.3	3849.8
37.5°	7369.7	7426.3	7171.8	6938.0	6600.5	6346.0	6053.8	5744.6	5578.7	5352.4	4143.9
40°	7733.6	7645.0	7473.4	7258.5	6945.5	6751.3	6559.0	6076.4	5985.9	5693.7	4475.8
42.5°	7669.5	7675.1	7580.9	7407.4	7181.2	7070.0	7004.0	6479.8	6355.4	6168.8	4800.0
45°	7407.4	7430.0	7462.1	7377.3	7396.1	7284.9	7462.1	6943.6	6821.1	6623.1	5173.3
47.5°	7119.0	7156.7	7149.1	7303.7	7479.1	7516.8	7959.8	7458.3	7405.5	7296.2	5689.9
50°	6640.1	6655.2	6800.4	7081.3	7320.7	7714.7	8333.1	8020.2	8101.2	7886.3	6304.5
52.5°	5821.9	5876.5	6249.8	6651.4	7134.1	7814.7	8585.8	8855.4	9060.9	8840.3	6894.6
55°	4786.8	4862.2	5229.9	5982.1	6689.1	7663.8	8815.8	9296.5	9713.2	9379.5	7252.8
57.5°	3851.7	3859.3	4189.2	4965.9	6057.5	7367.8	8932.6	9511.4	10071.4	9803.7	7690.2
60°	2935.4	2905.3	3201.3	3874.3	4994.2	6640.1	8640.4	9620.8	10518.2	10363.6	8216.2
62.5°	1889.1	1842.0	2164.3	2820.4	3900.7	5427.8	8056.0	9622.7	11215.8	11157.3	9096.7
65°	935.1	903.1	1180.2	1728.8	2699.8	4151.5	7222.7	9586.9	12067.9	12105.6	9954.5
67.5°	494.0	505.3	593.9	876.7	1557.3	2933.6	5967.0	9166.4	12503.4	12714.6	10161.9
68°	454.4	458.1	527.9	729.6	1351.8	2720.5	5669.2	9043.9	12537.4	12797.6	10046.9
70°	369.5	375.2	399.7	458.1	731.5	1770.3	4373.9	8003.2	12026.5	12264.0	9094.8
72.5°	294.1	311.1	326.2	350.7	429.9	929.5	2720.5	6236.6	9935.6	9962.0	7079.4
75°	224.4	237.6	267.7	288.5	335.6	510.9	1295.2	3802.7	6519.4	6198.9	4170.3
77.5°	173.4	184.8	198.0	226.2	280.9	345.0	395.9	1613.8	2769.5	2279.4	1178.3
80°	103.7	111.2	154.6	177.2	245.1	233.8	156.5	448.7	561.8	443.1	214.9
82.5°	60.3	66.0	88.6	135.7	171.6	126.3	92.4	139.5	137.6	120.7	71.6
85°	1.9	3.8	49.0	81.1	60.3	33.9	56.6	58.4	49.0	45.2	32.1
87.5°	0.0	1.9	13.2	11.3	13.2	7.5	11.3	15.1	18.9	17.0	13.2
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°	1310.3	1310.3	1310.3	1310.3	1310.3	1310.3	1310.3	1310.3	1310.3	1310.3	1310.3
2.5°	1323.5	1282.0	1189.6	1119.9	1044.5	999.2	954.0	925.7	910.6	901.2	908.7
5°	1357.4	1270.7	1121.8	989.8	903.1	844.6	786.2	756.0	727.7	712.7	722.1
7.5°	1432.8	1302.8	1055.8	912.5	810.7	720.2	646.7	588.2	554.3	524.1	529.8
10°	1525.2	1321.6	1057.7	867.2	720.2	576.9	473.2	399.7	358.2	331.8	329.9
12.5°	1619.5	1395.1	1065.2	822.0	609.0	433.6	311.1	256.4	231.9	218.7	218.7
15°	1762.8	1461.1	1046.4	739.0	461.9	282.8	213.0	194.2	184.8	173.4	175.3
17.5°	1887.2	1566.7	1036.9	614.6	316.7	203.6	177.2	156.5	147.1	135.7	135.7
20°	2055.0	1632.7	986.0	475.1	218.7	169.7	143.3	124.4	109.3	99.9	101.8
22.5°	2207.7	1683.6	895.5	324.3	167.8	133.9	105.6	86.7	73.5	62.2	64.1
25°	2373.6	1734.5	763.6	199.8	118.8	83.0	56.6	41.5	28.3	20.7	20.7
27.5°	2492.4	1749.6	592.0	118.8	71.6	37.7	13.2	1.9	0.0	0.0	0.0
30°	2613.1	1755.2	409.1	64.1	28.3	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	2750.7	1753.3	256.4	33.9	1.9	0.0	0.0	0.0	0.0	0.0	0.0
35°	2856.3	1721.3	122.5	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	3016.5	1674.2	37.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	3199.4	1589.3	7.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	3363.4	1502.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	3550.1	1395.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	3878.1	1349.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	4306.1	1314.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	4570.0	1208.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	4707.6	1099.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	4911.3	1046.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	5212.9	1050.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	5684.2	1102.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	5944.4	1050.1	7.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	5723.8	840.9	35.8	9.4	1.9	0.0	0.0	0.0	0.0	0.0	0.0
68°	5533.4	773.0	35.8	9.4	1.9	0.0	0.0	0.0	0.0	0.0	0.0
70°	4573.8	503.4	33.9	9.4	3.8	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	3331.4	279.0	28.3	7.5	3.8	0.0	0.0	0.0	0.0	0.0	0.0
75°	1938.1	139.5	20.7	7.5	3.8	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	505.3	69.8	17.0	9.4	5.7	1.9	0.0	0.0	0.0	0.0	0.0
80°	99.9	45.2	15.1	11.3	7.5	3.8	0.0	0.0	0.0	0.0	0.0
82.5°	47.1	32.1	15.1	11.3	9.4	5.7	1.9	0.0	0.0	0.0	0.0
85°	24.5	15.1	15.1	11.3	11.3	7.5	3.8	0.0	0.0	0.0	0.0
87.5°	11.3	5.7	5.7	5.7	5.7	3.8	1.9	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)