

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: P481998

Luminaire Tested: **IFLD-M-SA4A-730-U-T2R-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P481998  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4A-730-U-T2R-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens with House Side Shield  
Light Source: (64) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

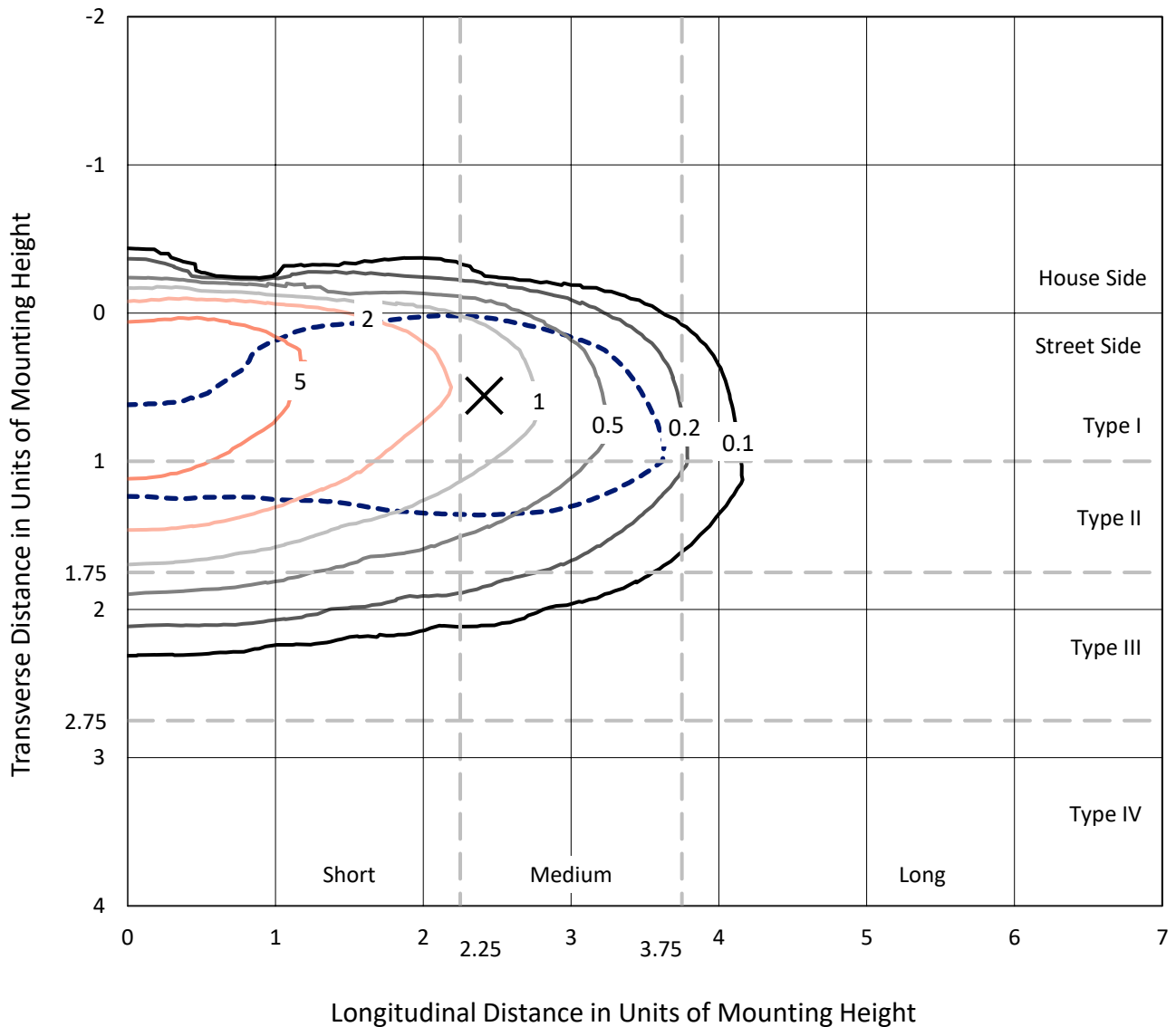
Lumens per Lamp: N/A  
Luminaire Lumens: 13221.2 lumens  
Efficiency: N/A  
Efficacy: 102.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G2

Input Watts (W): 128.6  
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

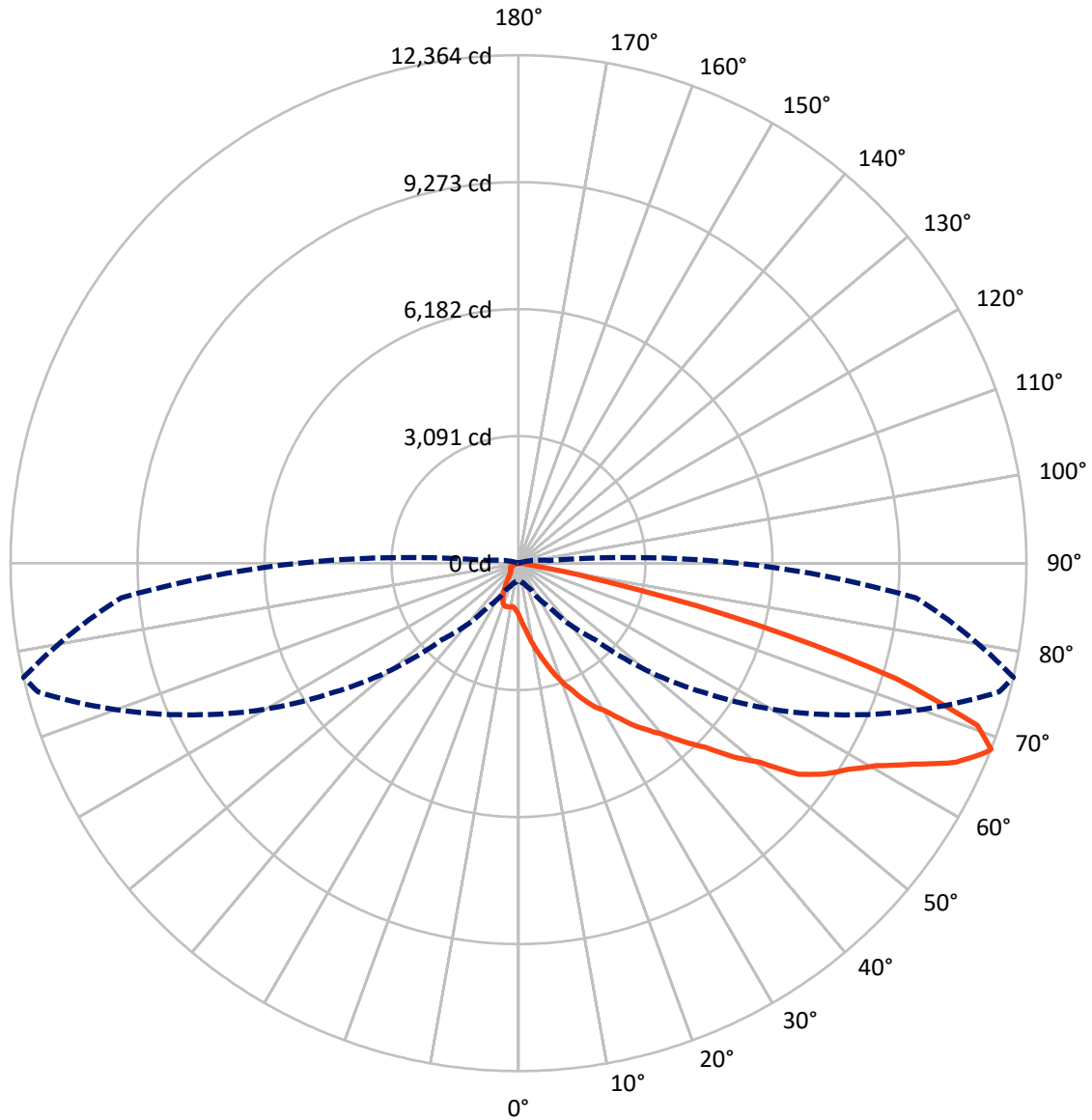
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 9.4 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
<b>House Side</b>	Lumens	599.6	0.0	599.6
	% Fixture	4.5	0.0	4.5
<b>Street Side</b>	Lumens	12621.6	0.0	12621.6
	% Fixture	95.5	0.0	95.5
<b>Total</b>	Lumens	13221.2	0.0	13221.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	147.9	1.1
10°-20°	545.5	4.1
20°-30°	1057.1	8.0
30°-40°	1842.9	13.9
40°-50°	2699.1	20.4
50°-60°	3171.0	24.0
60°-70°	2677.6	20.3
70°-80°	1037.9	7.9
80°-90°	42.2	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°	13221.2	100.0
0°-180°	13221.2	100.0

**Coefficient of Utilization**



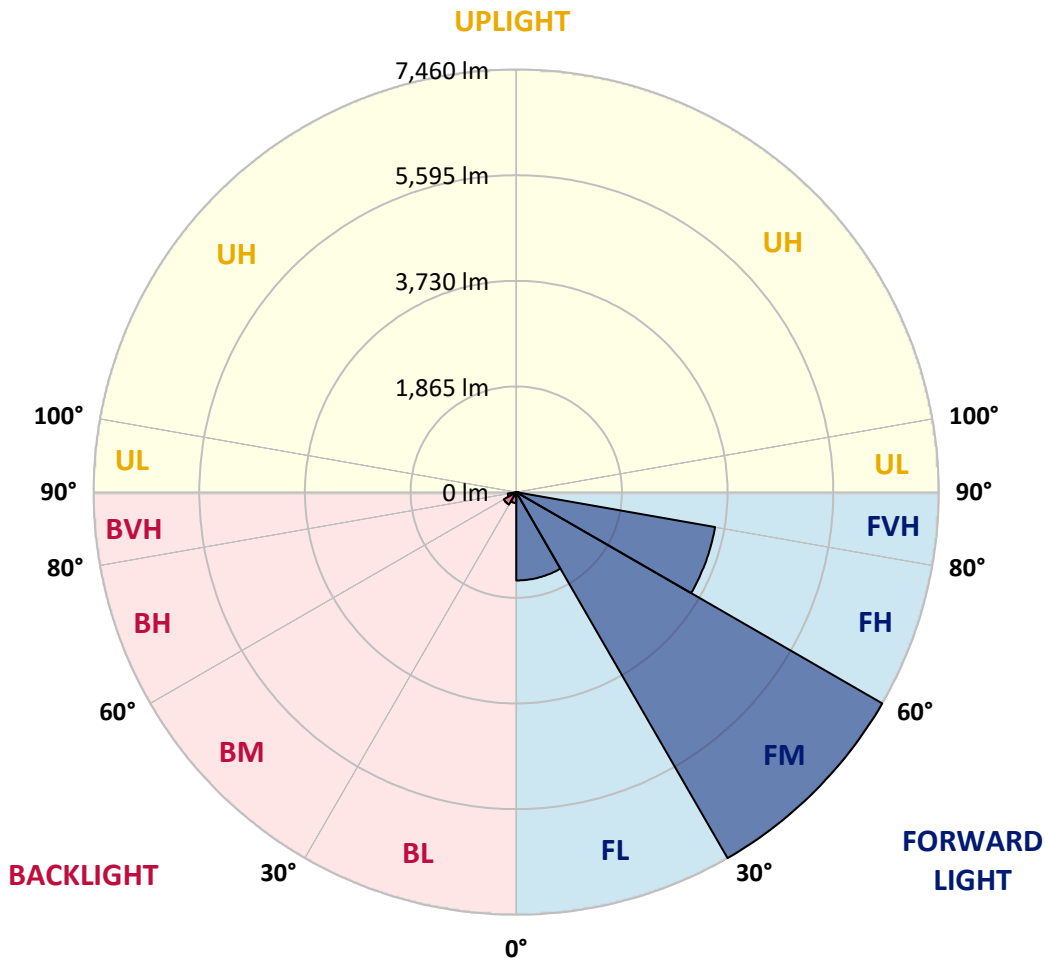
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1558.9	11.8			
FM (30°-60°)	7459.6	56.4			
FH (60°-80°)	3564.2	27.0			G2/5000
FVH (80°-90°)	38.9	0.3			G1/100
BL (0°-30°)	191.6	1.4	B1/500		
BM (30°-60°)	253.3	1.9	B1/1000		
BH (60°-80°)	151.4	1.1	B1/500		G1/500
BVH (80°-90°)	3.3	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°	1265.9	1265.9	1265.9	1265.9	1265.9	1265.9	1265.9	1265.9	1265.9	1265.9	1265.9
2.5°	1923.5	1887.1	1848.8	1837.9	1766.9	1686.7	1612.0	1539.2	1417.1	1419.0	1335.2
5°	2479.1	2433.5	2402.6	2395.3	2284.2	2145.7	2032.8	1827.0	1624.8	1579.2	1426.2
7.5°	2936.3	2921.7	2876.2	2837.9	2755.9	2586.5	2453.6	2158.5	1850.7	1799.6	1537.4
10°	3213.1	3235.0	3255.0	3205.9	3142.1	3020.1	2837.9	2519.1	2107.5	2043.7	1681.3
12.5°	3508.2	3471.8	3484.5	3524.6	3440.8	3413.5	3187.6	2890.7	2408.0	2286.0	1863.4
15°	3584.7	3599.3	3630.3	3746.8	3803.3	3725.0	3530.1	3191.3	2719.5	2550.1	2032.8
17.5°	3635.7	3628.4	3666.7	3841.6	3927.2	4001.8	3879.8	3526.4	2990.9	2839.7	2244.1
20°	3699.5	3659.4	3743.2	3854.3	4052.9	4209.5	4204.0	3863.4	3275.1	3114.8	2453.6
22.5°	3936.3	3905.3	3972.7	3983.6	4122.1	4340.6	4393.5	4138.5	3566.5	3369.8	2679.4
25°	4373.4	4429.9	4349.8	4280.5	4322.4	4466.3	4504.6	4382.5	3859.8	3679.4	2905.3
27.5°	5012.8	5005.5	4847.0	4757.8	4657.6	4639.4	4666.7	4610.2	4091.1	3961.8	3091.1
30°	5699.5	5639.4	5493.7	5278.7	5058.3	4921.7	4883.5	4825.2	4362.5	4174.9	3275.1
32.5°	6245.9	6278.7	6116.6	5836.1	5470.0	5286.0	5102.0	5038.3	4661.2	4495.5	3486.4
35°	6748.7	6705.0	6575.6	6338.8	6011.0	5714.1	5426.3	5289.7	5020.1	4856.1	3719.5
37.5°	7120.3	7174.9	6929.0	6703.1	6377.1	6131.2	5848.9	5550.1	5389.8	5171.3	4003.7
40°	7471.8	7386.2	7220.5	7012.8	6710.4	6522.8	6337.0	5870.7	5783.3	5500.9	4324.3
42.5°	7409.9	7415.4	7324.3	7156.7	6938.1	6830.6	6766.9	6260.5	6140.3	5960.0	4637.6
45°	7156.7	7178.6	7209.5	7127.6	7145.8	7038.3	7209.5	6708.6	6590.2	6399.0	4998.2
47.5°	6878.0	6914.4	6907.2	7056.5	7225.9	7262.3	7690.4	7205.9	7154.9	7049.2	5497.3
50°	6415.3	6429.9	6570.2	6841.6	7072.9	7453.6	8051.1	7748.7	7827.0	7619.4	6091.1
52.5°	5624.8	5677.6	6038.3	6426.3	6892.6	7550.1	8295.1	8555.6	8754.2	8541.0	6661.2
55°	4624.8	4697.7	5052.9	5779.6	6462.7	7404.4	8517.4	8981.8	9384.4	9062.0	7007.3
57.5°	3721.3	3728.6	4047.4	4797.8	5852.5	7118.4	8630.3	9189.5	9730.5	9471.8	7429.9
60°	2836.1	2806.9	3092.9	3743.2	4825.2	6415.3	8348.0	9295.1	10162.2	10012.8	7938.1
62.5°	1825.1	1779.6	2091.1	2725.0	3768.7	5244.1	7783.3	9297.0	10836.1	10779.7	8788.8
65°	903.5	872.5	1140.3	1670.3	2608.4	4011.0	6978.2	9262.4	11659.5	11695.9	9617.6
67.5°	477.2	488.2	573.8	847.0	1504.6	2834.3	5765.1	8856.2	12080.2	12284.2	9817.9
68°	439.0	442.6	510.0	704.9	1306.0	2628.4	5477.3	8737.8	12113.0	12364.4	9706.8
70°	357.0	362.5	386.2	442.6	706.7	1710.4	4225.9	7732.3	11619.4	11848.9	8786.9
72.5°	284.2	300.5	315.1	338.8	415.3	898.0	2628.4	6025.5	9599.3	9624.8	6839.8
75°	216.8	229.5	258.7	278.7	324.2	493.6	1251.4	3674.0	6298.8	5989.1	4029.2
77.5°	167.6	178.5	191.3	218.6	271.4	333.3	382.5	1559.2	2675.8	2202.2	1138.4
80°	100.2	107.5	149.4	171.2	236.8	225.9	151.2	433.5	542.8	428.1	207.7
82.5°	58.3	63.8	85.6	131.1	165.8	122.0	89.3	134.8	133.0	116.6	69.2
85°	1.8	3.6	47.4	78.3	58.3	32.8	54.6	56.5	47.4	43.7	31.0
87.5°	0.0	1.8	12.8	10.9	12.8	7.3	10.9	14.6	18.2	16.4	12.8
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°	1265.9	1265.9	1265.9	1265.9	1265.9	1265.9	1265.9	1265.9	1265.9	1265.9	1265.9
2.5°	1278.7	1238.6	1149.4	1082.0	1009.1	965.4	921.7	894.4	879.8	870.7	878.0
5°	1311.5	1227.7	1083.8	956.3	872.5	816.0	759.6	730.4	703.1	688.5	697.6
7.5°	1384.3	1258.7	1020.0	881.6	783.2	695.8	624.8	568.3	535.5	506.4	511.8
10°	1473.6	1276.9	1021.9	837.9	695.8	557.4	457.2	386.2	346.1	320.6	318.8
12.5°	1564.7	1347.9	1029.2	794.2	588.3	418.9	300.5	247.7	224.0	211.3	211.3
15°	1703.1	1411.7	1010.9	714.0	446.3	273.2	205.8	187.6	178.5	167.6	169.4
17.5°	1823.3	1513.7	1001.8	593.8	306.0	196.7	171.2	151.2	142.1	131.1	131.1
20°	1985.4	1577.4	952.6	459.0	211.3	163.9	138.4	120.2	105.6	96.5	98.4
22.5°	2133.0	1626.6	865.2	313.3	162.1	129.3	102.0	83.8	71.0	60.1	61.9
25°	2293.3	1675.8	737.7	193.1	114.8	80.1	54.6	40.1	27.3	20.0	20.0
27.5°	2408.0	1690.4	572.0	114.8	69.2	36.4	12.8	1.8	0.0	0.0	0.0
30°	2524.6	1695.8	395.3	61.9	27.3	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	2657.6	1694.0	247.7	32.8	1.8	0.0	0.0	0.0	0.0	0.0	0.0
35°	2759.6	1663.0	118.4	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	2914.4	1617.5	36.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	3091.1	1535.5	7.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	3249.6	1451.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	3429.9	1347.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	3746.8	1304.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	4160.3	1269.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	4415.3	1167.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	4548.3	1061.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	4745.0	1010.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	5036.5	1014.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	5491.8	1065.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	5743.2	1014.6	7.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	5530.1	812.4	34.6	9.1	1.8	0.0	0.0	0.0	0.0	0.0	0.0
68°	5346.1	746.8	34.6	9.1	1.8	0.0	0.0	0.0	0.0	0.0	0.0
70°	4419.0	486.3	32.8	9.1	3.6	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	3218.6	269.6	27.3	7.3	3.6	0.0	0.0	0.0	0.0	0.0	0.0
75°	1872.5	134.8	20.0	7.3	3.6	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	488.2	67.4	16.4	9.1	5.5	1.8	0.0	0.0	0.0	0.0	0.0
80°	96.5	43.7	14.6	10.9	7.3	3.6	0.0	0.0	0.0	0.0	0.0
82.5°	45.5	31.0	14.6	10.9	9.1	5.5	1.8	0.0	0.0	0.0	0.0
85°	23.7	14.6	14.6	10.9	10.9	7.3	3.6	0.0	0.0	0.0	0.0
87.5°	10.9	5.5	5.5	5.5	5.5	3.6	1.8	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)