

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: P481954

Luminaire Tested: **IFLD-S-SA6A-727-U-T2R-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481954
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6A-727-U-T2R-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens with House Side Shield
Light Source: (96) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

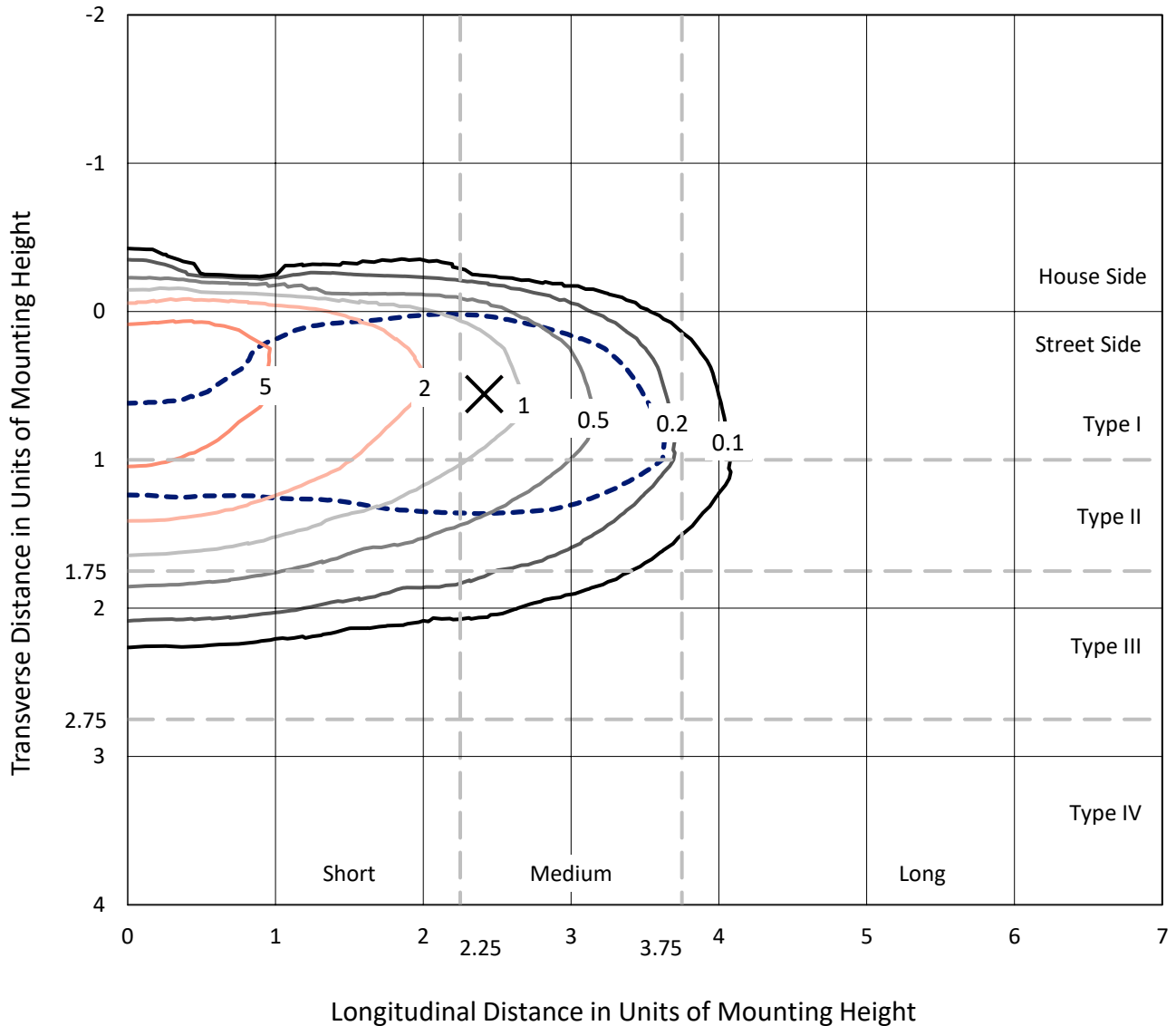
Lumens per Lamp: N/A
Luminaire Lumens: 17746 lumens
Efficiency: N/A
Efficacy: 93.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 189.6
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

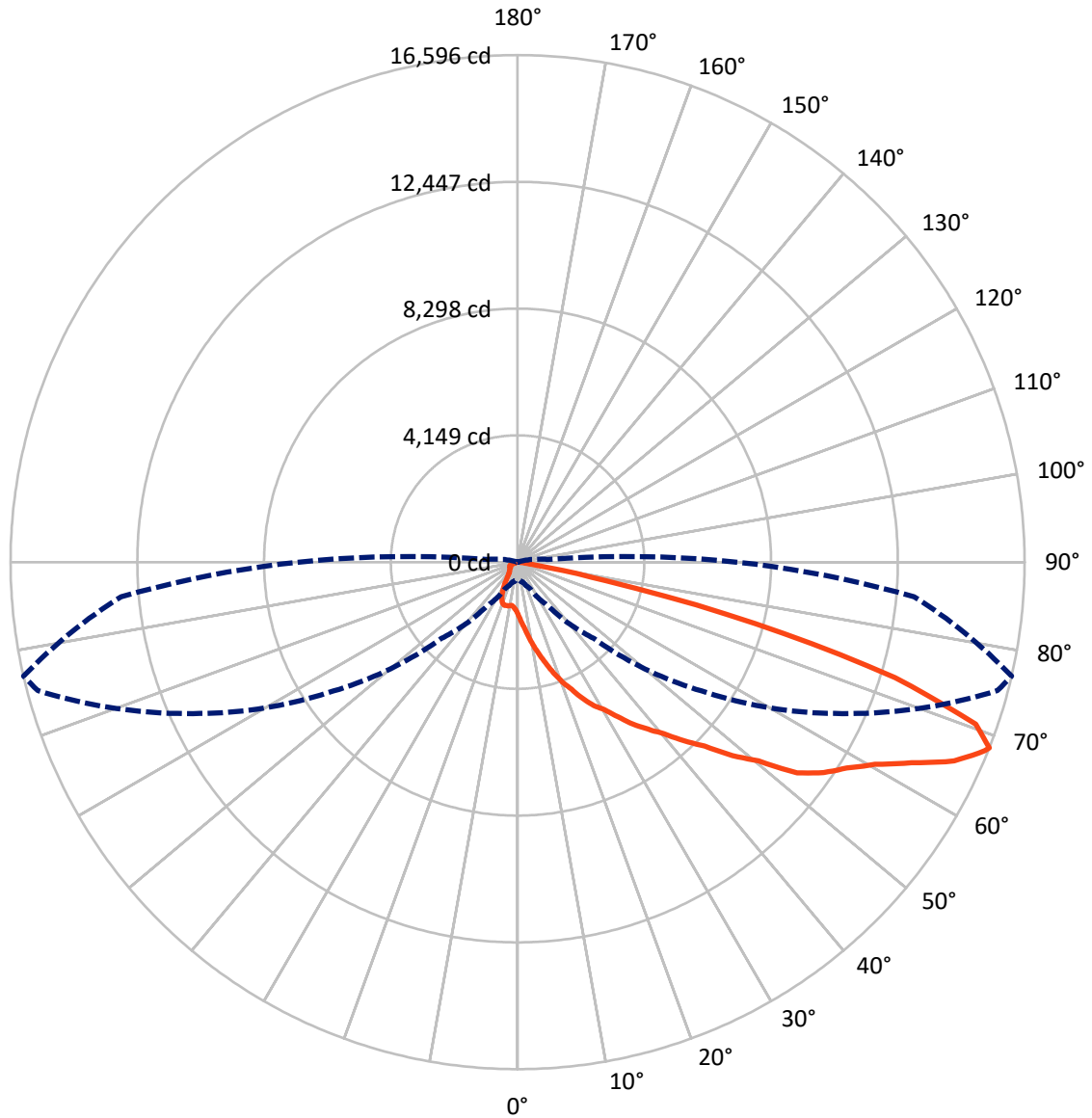
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 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	804.8	0.0	804.8
	% Fixture	4.5	0.0	4.5
Street Side	Lumens	16941.3	0.0	16941.3
	% Fixture	95.5	0.0	95.5
Total	Lumens	17746.0	0.0	17746.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	198.5	1.1
10°-20°	732.1	4.1
20°-30°	1418.9	8.0
30°-40°	2473.6	13.9
40°-50°	3622.8	20.4
50°-60°	4256.3	24.0
60°-70°	3594.0	20.3
70°-80°	1393.1	7.9
80°-90°	56.6	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°	17746.0	100.0
0°-180°	17746.0	100.0

Coefficient of Utilization



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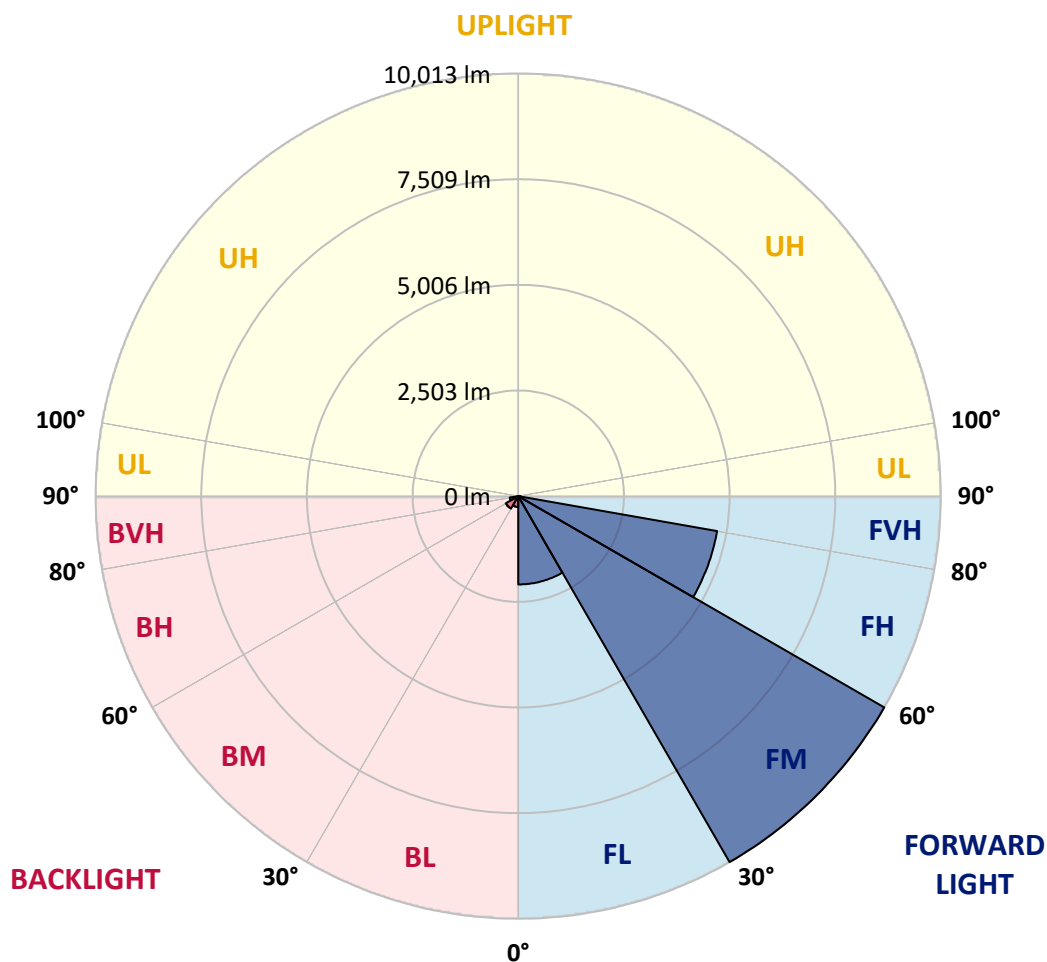
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2092.4	11.8			
FM (30°-60°)	10012.6	56.4			
FH (60°-80°)	4784.0	27.0			G2/5000
FVH (80°-90°)	52.3	0.3			G1/100
BL (0°-30°)	257.1	1.4	B1/500		
BM (30°-60°)	340.1	1.9	B1/1000		
BH (60°-80°)	203.2	1.1	B1/500		G1/500
BVH (80°-90°)	4.4	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°	1699.2	1699.2	1699.2	1699.2	1699.2	1699.2	1699.2	1699.2	1699.2	1699.2	1699.2
2.5°	2581.8	2532.9	2481.6	2466.9	2371.6	2264.0	2163.7	2065.9	1902.1	1904.6	1792.1
5°	3327.5	3266.4	3224.8	3215.1	3065.9	2880.1	2728.5	2452.2	2180.9	2119.7	1914.4
7.5°	3941.2	3921.6	3860.5	3809.2	3699.1	3471.8	3293.3	2897.2	2484.0	2415.6	2063.5
10°	4312.8	4342.2	4369.0	4303.0	4217.5	4053.7	3809.2	3381.3	2828.8	2743.2	2256.6
12.5°	4708.9	4660.0	4677.1	4730.9	4618.4	4581.8	4278.6	3880.1	3232.2	3068.4	2501.1
15°	4811.6	4831.1	4872.7	5029.2	5105.0	4999.8	4738.2	4283.5	3650.2	3422.9	2728.5
17.5°	4880.0	4870.3	4921.6	5156.3	5271.2	5371.5	5207.6	4733.3	4014.5	3811.6	3012.1
20°	4965.6	4911.8	5024.3	5173.4	5439.9	5650.2	5642.8	5185.6	4395.9	4180.8	3293.3
22.5°	5283.4	5241.9	5332.3	5347.0	5532.8	5826.2	5897.1	5554.8	4787.1	4523.1	3596.5
25°	5870.2	5946.0	5838.4	5745.5	5801.8	5994.9	6046.3	5882.4	5180.8	4938.7	3899.6
27.5°	6728.4	6718.6	6505.9	6386.1	6251.6	6227.2	6263.8	6188.1	5491.3	5317.7	4149.0
30°	7650.1	7569.4	7373.8	7085.3	6789.5	6606.1	6554.8	6476.6	5855.5	5603.7	4395.9
32.5°	8383.6	8427.6	8210.0	7833.5	7342.1	7095.1	6848.2	6762.6	6256.5	6034.0	4679.5
35°	9058.4	8999.7	8826.1	8508.3	8068.2	7669.7	7283.4	7100.0	6738.2	6518.1	4992.5
37.5°	9557.1	9630.5	9300.4	8997.3	8559.6	8229.6	7850.6	7449.6	7234.5	6941.1	5373.9
40°	10029.0	9914.1	9691.6	9412.9	9007.0	8755.2	8505.8	7879.9	7762.6	7383.6	5804.2
42.5°	9945.9	9953.2	9831.0	9606.0	9312.6	9168.4	9082.8	8403.1	8241.8	7999.7	6224.7
45°	9606.0	9635.4	9676.9	9566.9	9591.4	9447.1	9676.9	9004.6	8845.7	8589.0	6708.8
47.5°	9232.0	9280.9	9271.1	9471.6	9698.9	9747.8	10322.4	9672.0	9603.6	9461.8	7378.7
50°	8611.0	8630.5	8818.8	9183.1	9493.6	10004.6	10806.5	10400.6	10505.8	10227.0	8175.8
52.5°	7549.9	7620.8	8104.9	8625.6	9251.5	10134.1	11134.1	11483.7	11750.2	11464.2	8941.0
55°	6207.6	6305.4	6782.2	7757.7	8674.5	9938.5	11432.4	12055.8	12596.2	12163.4	9405.6
57.5°	4994.9	5004.7	5432.6	6439.9	7855.5	9554.7	11584.0	12334.5	13060.7	12713.5	9972.8
60°	3806.7	3767.6	4151.4	5024.3	6476.6	8611.0	11205.0	12476.4	13640.1	13439.6	10654.9
62.5°	2449.8	2388.7	2806.8	3657.6	5058.5	7038.9	10447.1	12478.8	14544.7	14469.0	11796.7
65°	1212.7	1171.1	1530.5	2242.0	3501.1	5383.7	9366.4	12432.3	15649.8	15698.7	12909.1
67.5°	640.6	655.2	770.1	1136.9	2019.5	3804.3	7738.1	11887.1	16214.6	16488.4	13178.0
68°	589.2	594.1	684.6	946.2	1753.0	3528.0	7351.8	11728.2	16258.6	16596.0	13028.9
70°	479.2	486.5	518.3	594.1	948.6	2295.8	5672.2	10378.6	15596.1	15904.1	11794.2
72.5°	381.4	403.4	423.0	454.8	557.4	1205.3	3528.0	8087.7	12884.7	12918.9	9180.6
75°	290.9	308.1	347.2	374.1	435.2	662.6	1679.7	4931.4	8454.5	8038.8	5408.1
77.5°	224.9	239.6	256.7	293.4	364.3	447.4	513.4	2092.8	3591.6	2955.9	1528.1
80°	134.5	144.2	200.5	229.8	317.8	303.2	202.9	581.9	728.6	574.6	278.7
82.5°	78.2	85.6	114.9	176.0	222.5	163.8	119.8	180.9	178.5	156.5	92.9
85°	2.4	4.9	63.6	105.1	78.2	44.0	73.3	75.8	63.6	58.7	41.6
87.5°	0.0	2.4	17.1	14.7	17.1	9.8	14.7	19.6	24.4	22.0	17.1
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°	1699.2	1699.2	1699.2	1699.2	1699.2	1699.2	1699.2	1699.2	1699.2	1699.2	1699.2
2.5°	1716.3	1662.5	1542.7	1452.3	1354.5	1295.8	1237.1	1200.4	1180.9	1168.7	1178.4
5°	1760.3	1647.9	1454.7	1283.6	1171.1	1095.3	1019.5	980.4	943.7	924.2	936.4
7.5°	1858.1	1689.4	1369.1	1183.3	1051.3	934.0	838.6	762.8	718.8	679.7	687.0
10°	1977.9	1713.9	1371.6	1124.7	934.0	748.1	613.7	518.3	464.5	430.3	427.9
12.5°	2100.2	1809.2	1381.4	1066.0	789.7	562.3	403.4	332.5	300.7	283.6	283.6
15°	2286.0	1894.8	1356.9	958.4	599.0	366.7	276.3	251.8	239.6	224.9	227.4
17.5°	2447.4	2031.7	1344.7	797.0	410.7	264.0	229.8	202.9	190.7	176.0	176.0
20°	2664.9	2117.3	1278.7	616.1	283.6	220.0	185.8	161.4	141.8	129.6	132.0
22.5°	2863.0	2183.3	1161.3	420.5	217.6	173.6	136.9	112.5	95.4	80.7	83.1
25°	3078.1	2249.3	990.2	259.2	154.0	107.6	73.3	53.8	36.7	26.9	26.9
27.5°	3232.2	2268.9	767.7	154.0	92.9	48.9	17.1	2.4	0.0	0.0	0.0
30°	3388.6	2276.2	530.5	83.1	36.7	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	3567.1	2273.8	332.5	44.0	2.4	0.0	0.0	0.0	0.0	0.0	0.0
35°	3704.0	2232.2	158.9	4.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	3911.8	2171.1	48.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	4149.0	2061.1	9.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	4361.7	1948.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	4603.8	1809.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	5029.2	1750.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	5584.2	1704.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	5926.5	1567.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	6104.9	1425.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	6369.0	1356.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	6760.2	1361.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	7371.4	1430.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	7708.8	1361.8	9.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	7422.7	1090.4	46.5	12.2	2.4	0.0	0.0	0.0	0.0	0.0	0.0
68°	7175.8	1002.4	46.5	12.2	2.4	0.0	0.0	0.0	0.0	0.0	0.0
70°	5931.3	652.8	44.0	12.2	4.9	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	4320.1	361.8	36.7	9.8	4.9	0.0	0.0	0.0	0.0	0.0	0.0
75°	2513.4	180.9	26.9	9.8	4.9	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	655.2	90.5	22.0	12.2	7.3	2.4	0.0	0.0	0.0	0.0	0.0
80°	129.6	58.7	19.6	14.7	9.8	4.9	0.0	0.0	0.0	0.0	0.0
82.5°	61.1	41.6	19.6	14.7	12.2	7.3	2.4	0.0	0.0	0.0	0.0
85°	31.8	19.6	19.6	14.7	14.7	9.8	4.9	0.0	0.0	0.0	0.0
87.5°	14.7	7.3	7.3	7.3	7.3	4.9	2.4	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)