

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: P481941

Luminaire Tested: **IFLD-S-SA3C-727-U-T2R-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481941
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3C-727-U-T2R-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens with House Side Shield
Light Source: (48) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

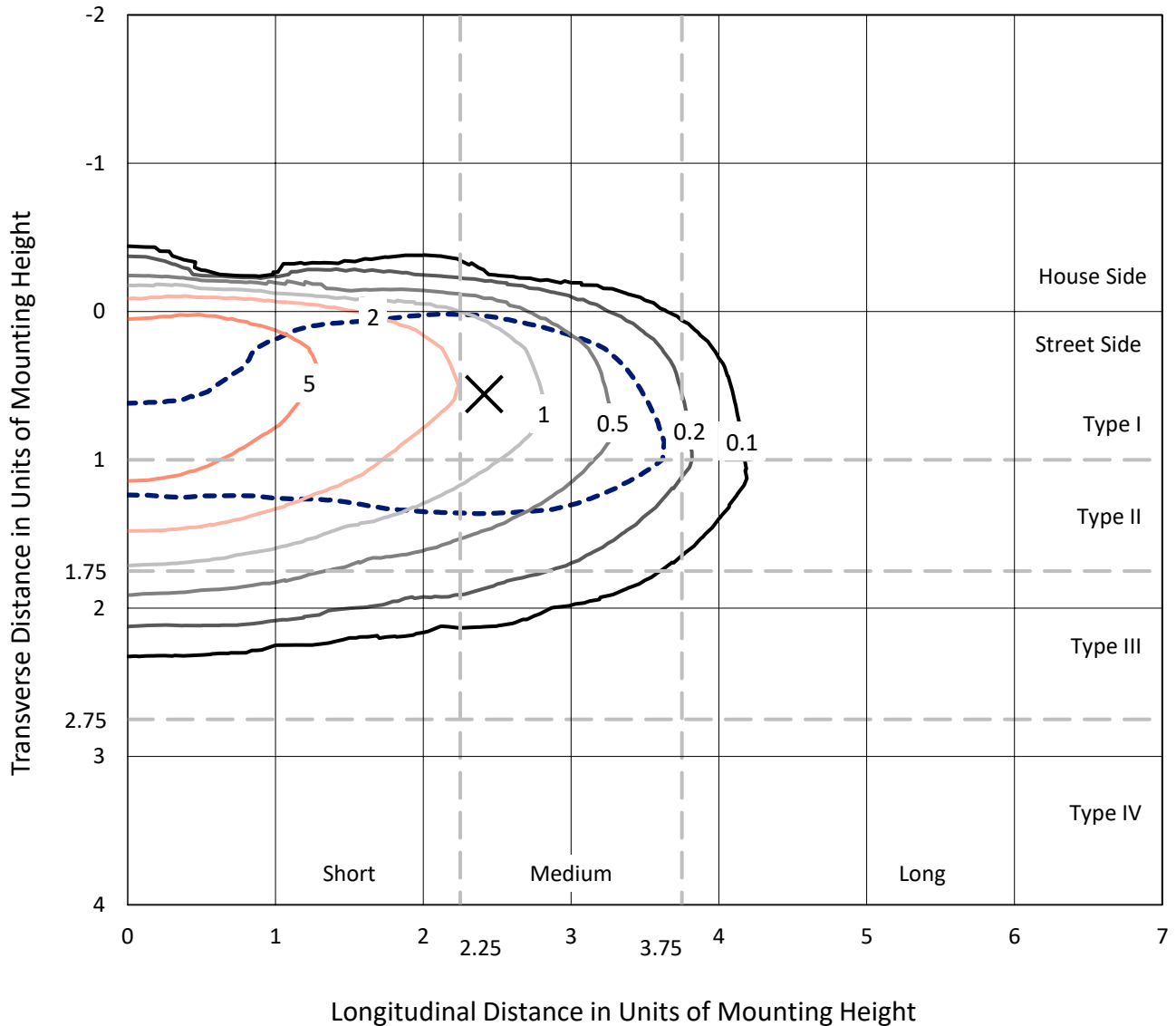
Lumens per Lamp: N/A
Luminaire Lumens: 13927.3 lumens
Efficiency: N/A
Efficacy: 86.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 160.8
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

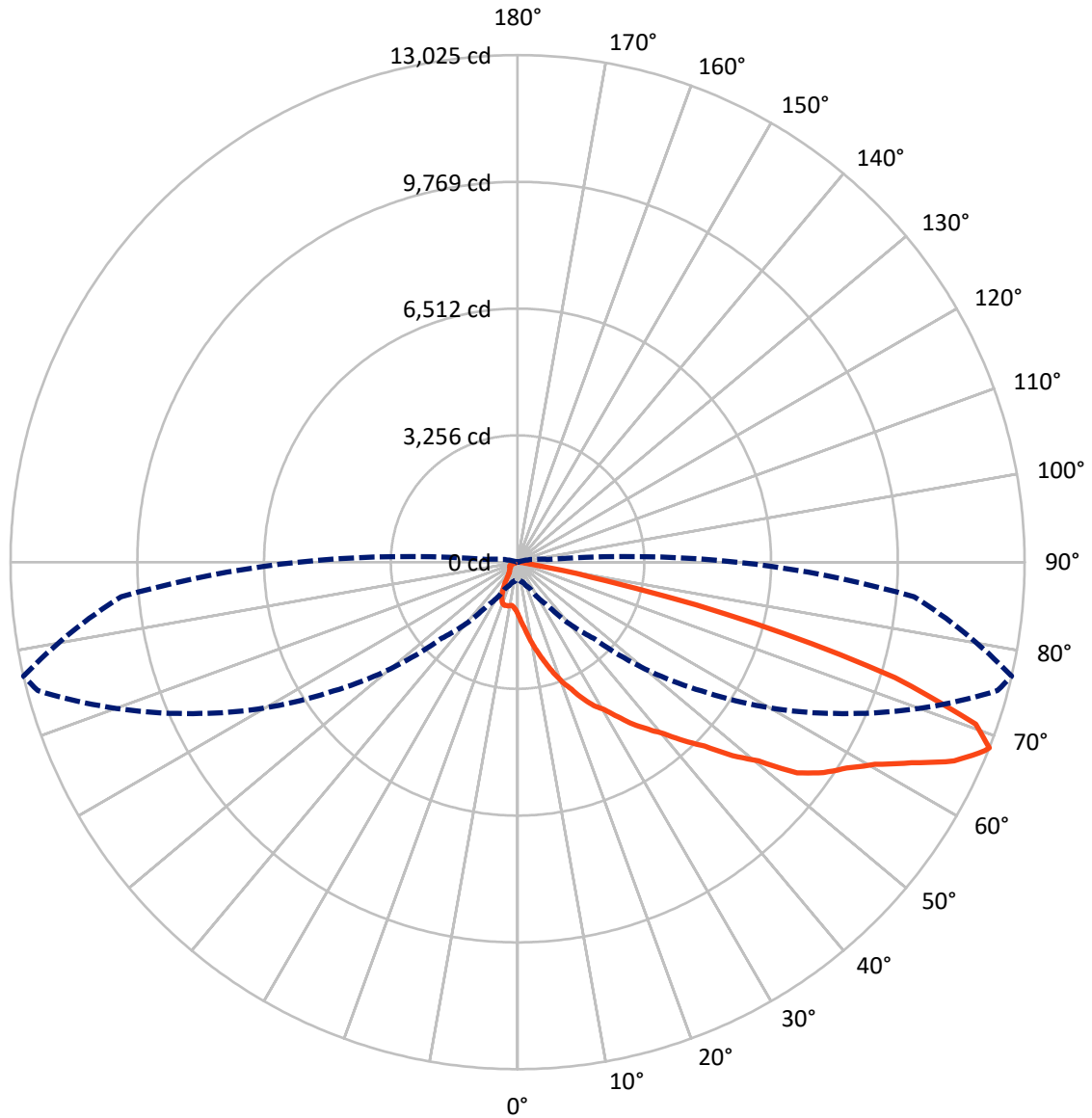
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 9.9 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	631.6	0.0	631.6
	% Fixture	4.5	0.0	4.5
Street Side	Lumens	13295.7	0.0	13295.7
	% Fixture	95.5	0.0	95.5
Total	Lumens	13927.3	0.0	13927.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.8	1.1
10°-20°	574.6	4.1
20°-30°	1113.6	8.0
30°-40°	1941.3	13.9
40°-50°	2843.2	20.4
50°-60°	3340.4	24.0
60°-70°	2820.6	20.3
70°-80°	1093.3	7.9
80°-90°	44.5	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°	13927.3	100.0
0°-180°	13927.3	100.0

Coefficient of Utilization



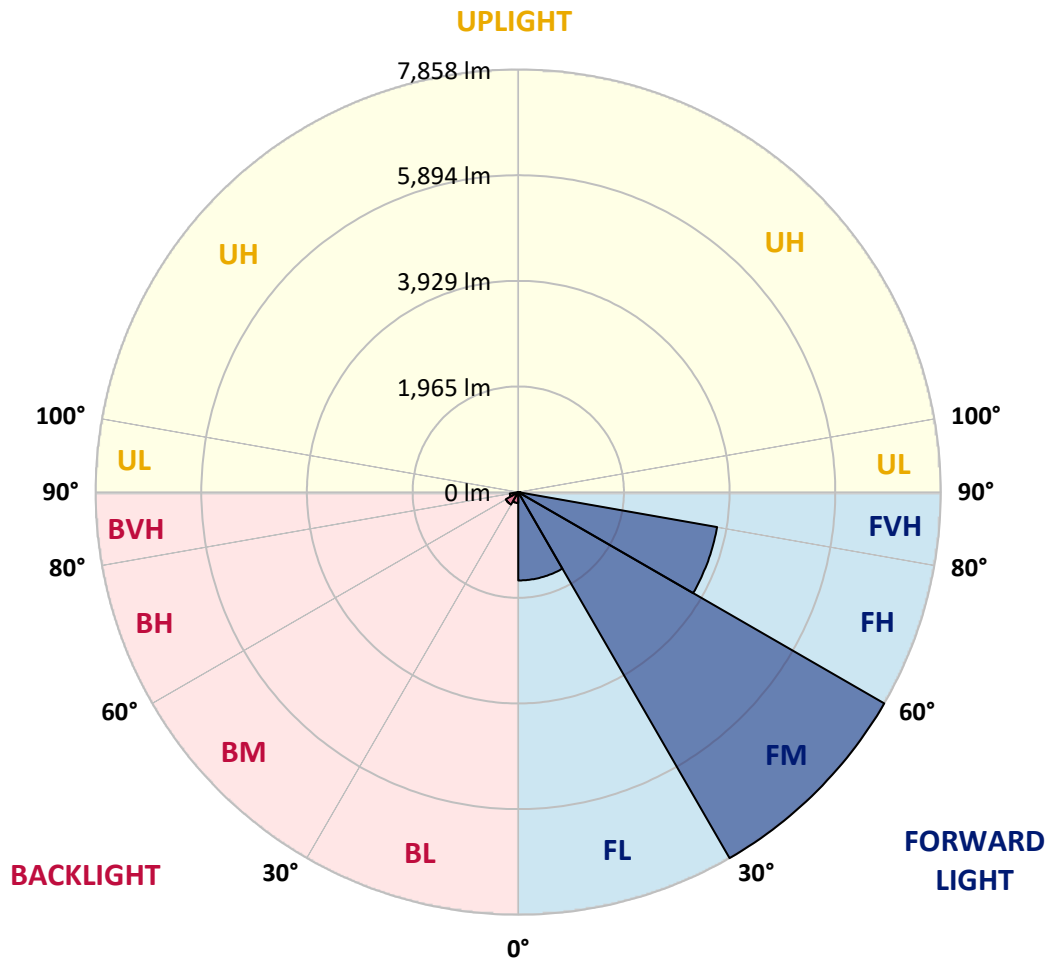
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1642.1	11.8			
FM (30°-60°)	7858.0	56.4			
FH (60°-80°)	3754.5	27.0			G2/5000
FVH (80°-90°)	41.0	0.3			G1/100
BL (0°-30°)	201.8	1.4	B1/500		
BM (30°-60°)	266.9	1.9	B1/1000		
BH (60°-80°)	159.5	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°	1333.6	1333.6	1333.6	1333.6	1333.6	1333.6	1333.6	1333.6	1333.6	1333.6	1333.6
2.5°	2026.2	1987.9	1947.6	1936.1	1861.2	1776.8	1698.1	1621.4	1492.8	1494.7	1406.5
5°	2611.5	2563.5	2530.9	2523.2	2406.2	2260.3	2141.4	1924.5	1711.6	1663.6	1502.4
7.5°	3093.1	3077.7	3029.8	2989.5	2903.1	2724.7	2584.6	2273.8	1949.5	1895.8	1619.5
10°	3384.7	3407.8	3428.9	3377.1	3309.9	3181.3	2989.5	2653.7	2220.0	2152.9	1771.0
12.5°	3695.6	3657.2	3670.6	3712.9	3624.6	3595.8	3357.9	3045.1	2536.6	2408.1	1962.9
15°	3776.2	3791.5	3824.1	3946.9	4006.4	3923.9	3718.6	3361.7	2864.7	2686.3	2141.4
17.5°	3829.9	3822.2	3862.5	4046.7	4136.9	4215.6	4087.0	3714.8	3150.6	2991.4	2363.9
20°	3897.1	3854.8	3943.1	4060.2	4269.3	4434.3	4428.6	4069.7	3450.0	3281.1	2584.6
22.5°	4146.5	4113.9	4184.9	4196.4	4342.2	4572.5	4628.1	4359.5	3757.0	3549.8	2822.5
25°	4607.0	4666.5	4582.1	4509.1	4553.3	4704.9	4745.2	4616.6	4065.9	3875.9	3060.5
27.5°	5280.5	5272.8	5105.9	5011.9	4906.3	4887.1	4915.9	4856.4	4309.6	4173.4	3256.2
30°	6003.9	5940.6	5787.1	5560.6	5328.5	5184.6	5144.3	5082.9	4595.5	4397.9	3450.0
32.5°	6579.5	6614.1	6443.3	6147.8	5762.1	5568.3	5374.5	5307.4	4910.2	4735.6	3672.6
35°	7109.1	7063.1	6926.8	6677.4	6332.0	6019.2	5716.1	5572.2	5288.2	5115.5	3918.2
37.5°	7500.5	7558.1	7299.1	7061.1	6717.7	6458.6	6161.2	5846.5	5677.7	5447.4	4217.5
40°	7870.9	7780.7	7606.1	7387.3	7068.8	6871.2	6675.5	6184.2	6092.1	5794.7	4555.2
42.5°	7805.6	7811.4	7715.4	7538.9	7308.7	7195.4	7128.3	6594.9	6468.2	6278.3	4885.2
45°	7538.9	7561.9	7594.6	7508.2	7527.4	7414.2	7594.6	7066.9	6942.2	6740.7	5265.2
47.5°	7245.3	7283.7	7276.0	7433.4	7611.8	7650.2	8101.1	7590.7	7537.0	7425.7	5790.9
50°	6758.0	6773.3	6921.1	7207.0	7450.6	7851.7	8481.0	8162.5	8245.0	8026.3	6416.4
52.5°	5925.2	5980.9	6360.8	6769.5	7260.7	7953.4	8738.2	9012.5	9221.7	8997.2	7017.0
55°	4871.8	4948.6	5322.7	6088.3	6807.9	7799.9	8972.2	9461.5	9885.6	9546.0	7381.6
57.5°	3920.1	3927.8	4263.5	5054.1	6165.1	7498.6	9091.2	9680.3	10250.2	9977.7	7826.7
60°	2987.6	2956.9	3258.1	3943.1	5082.9	6758.0	8793.8	9791.6	10704.9	10547.6	8362.1
62.5°	1922.6	1874.7	2202.8	2870.5	3970.0	5524.2	8199.0	9793.5	11414.9	11355.4	9258.1
65°	951.7	919.1	1201.2	1759.5	2747.7	4225.2	7350.9	9757.0	12282.2	12320.5	10131.2
67.5°	502.7	514.2	604.4	892.2	1584.9	2985.6	6073.0	9329.1	12725.4	12940.3	10342.3
68°	462.4	466.3	537.3	742.6	1375.8	2768.8	5769.8	9204.4	12759.9	13024.7	10225.2
70°	376.1	381.8	406.8	466.3	744.5	1801.7	4451.6	8145.2	12239.9	12481.7	9256.2
72.5°	299.3	316.6	332.0	356.9	437.5	946.0	2768.8	6347.3	10112.0	10138.9	7205.0
75°	228.3	241.8	272.5	293.6	341.5	520.0	1318.2	3870.2	6635.2	6309.0	4244.4
77.5°	176.5	188.0	201.5	230.3	285.9	351.1	402.9	1642.5	2818.7	2319.8	1199.2
80°	105.5	113.2	157.3	180.4	249.4	237.9	159.3	456.7	571.8	450.9	218.7
82.5°	61.4	67.2	90.2	138.2	174.6	128.6	94.0	142.0	140.1	122.8	72.9
85°	1.9	3.8	49.9	82.5	61.4	34.5	57.6	59.5	49.9	46.1	32.6
87.5°	0.0	1.9	13.4	11.5	13.4	7.7	11.5	15.4	19.2	17.3	13.4
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°	1333.6	1333.6	1333.6	1333.6	1333.6	1333.6	1333.6	1333.6	1333.6	1333.6	1333.6
2.5°	1347.0	1304.8	1210.8	1139.8	1063.0	1017.0	970.9	942.1	926.8	917.2	924.9
5°	1381.5	1293.3	1141.7	1007.4	919.1	859.6	800.1	769.4	740.7	725.3	734.9
7.5°	1458.3	1325.9	1074.5	928.7	825.1	733.0	658.1	598.7	564.1	533.4	539.2
10°	1552.3	1345.1	1076.4	882.6	733.0	587.1	481.6	406.8	364.6	337.7	335.8
12.5°	1648.2	1419.9	1084.1	836.6	619.8	441.3	316.6	261.0	236.0	222.6	222.6
15°	1794.1	1487.1	1064.9	752.2	470.1	287.8	216.8	197.6	188.0	176.5	178.4
17.5°	1920.7	1594.5	1055.3	625.5	322.4	207.2	180.4	159.3	149.7	138.2	138.2
20°	2091.5	1661.7	1003.5	483.5	222.6	172.7	145.8	126.6	111.3	101.7	103.6
22.5°	2246.9	1713.5	911.4	330.0	170.8	136.2	107.5	88.3	74.8	63.3	65.2
25°	2415.8	1765.3	777.1	203.4	120.9	84.4	57.6	42.2	28.8	21.1	21.1
27.5°	2536.6	1780.6	602.5	120.9	72.9	38.4	13.4	1.9	0.0	0.0	0.0
30°	2659.4	1786.4	416.4	65.2	28.8	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	2799.5	1784.5	261.0	34.5	1.9	0.0	0.0	0.0	0.0	0.0	0.0
35°	2907.0	1751.9	124.7	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	3070.1	1703.9	38.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	3256.2	1617.5	7.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	3423.1	1529.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	3613.1	1419.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	3946.9	1373.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	4382.5	1337.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	4651.1	1229.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	4791.2	1118.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	4998.4	1064.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	5305.4	1068.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	5785.1	1122.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	6049.9	1068.8	7.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	5825.4	855.8	36.5	9.6	1.9	0.0	0.0	0.0	0.0	0.0	0.0
68°	5631.6	786.7	36.5	9.6	1.9	0.0	0.0	0.0	0.0	0.0	0.0
70°	4655.0	512.3	34.5	9.6	3.8	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	3390.5	284.0	28.8	7.7	3.8	0.0	0.0	0.0	0.0	0.0	0.0
75°	1972.5	142.0	21.1	7.7	3.8	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	514.2	71.0	17.3	9.6	5.8	1.9	0.0	0.0	0.0	0.0	0.0
80°	101.7	46.1	15.4	11.5	7.7	3.8	0.0	0.0	0.0	0.0	0.0
82.5°	48.0	32.6	15.4	11.5	9.6	5.8	1.9	0.0	0.0	0.0	0.0
85°	24.9	15.4	15.4	11.5	11.5	7.7	3.8	0.0	0.0	0.0	0.0
87.5°	11.5	5.8	5.8	5.8	5.8	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)