

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: P482176

Luminaire Tested: **IFLD-S-SA3D-827-U-T2R-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P482176
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3D-827-U-T2R-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens with House Side Shield
Light Source: (48) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

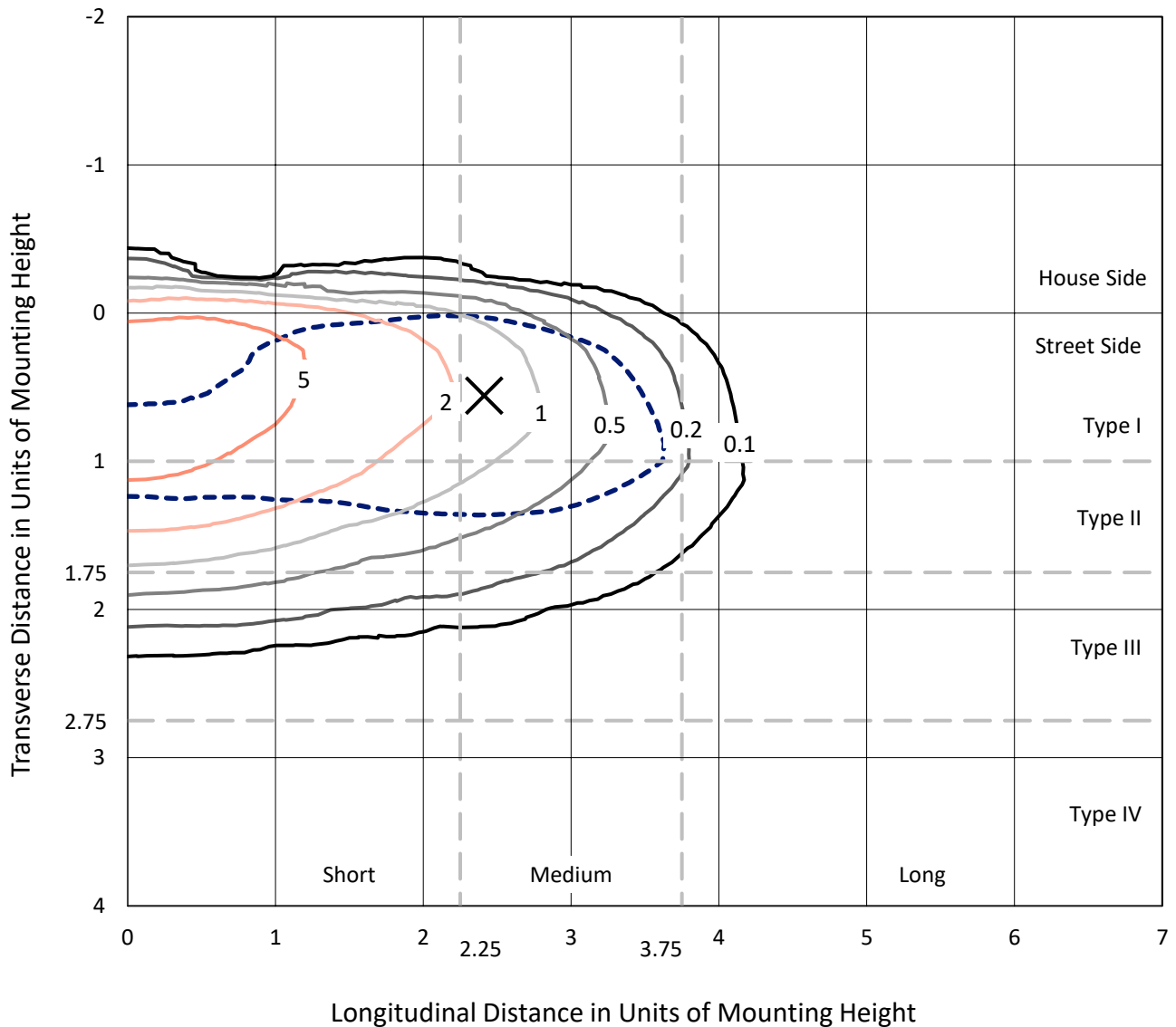
Lumens per Lamp: N/A
Luminaire Lumens: 13470.1 lumens
Efficiency: N/A
Efficacy: 73.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 184.1
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

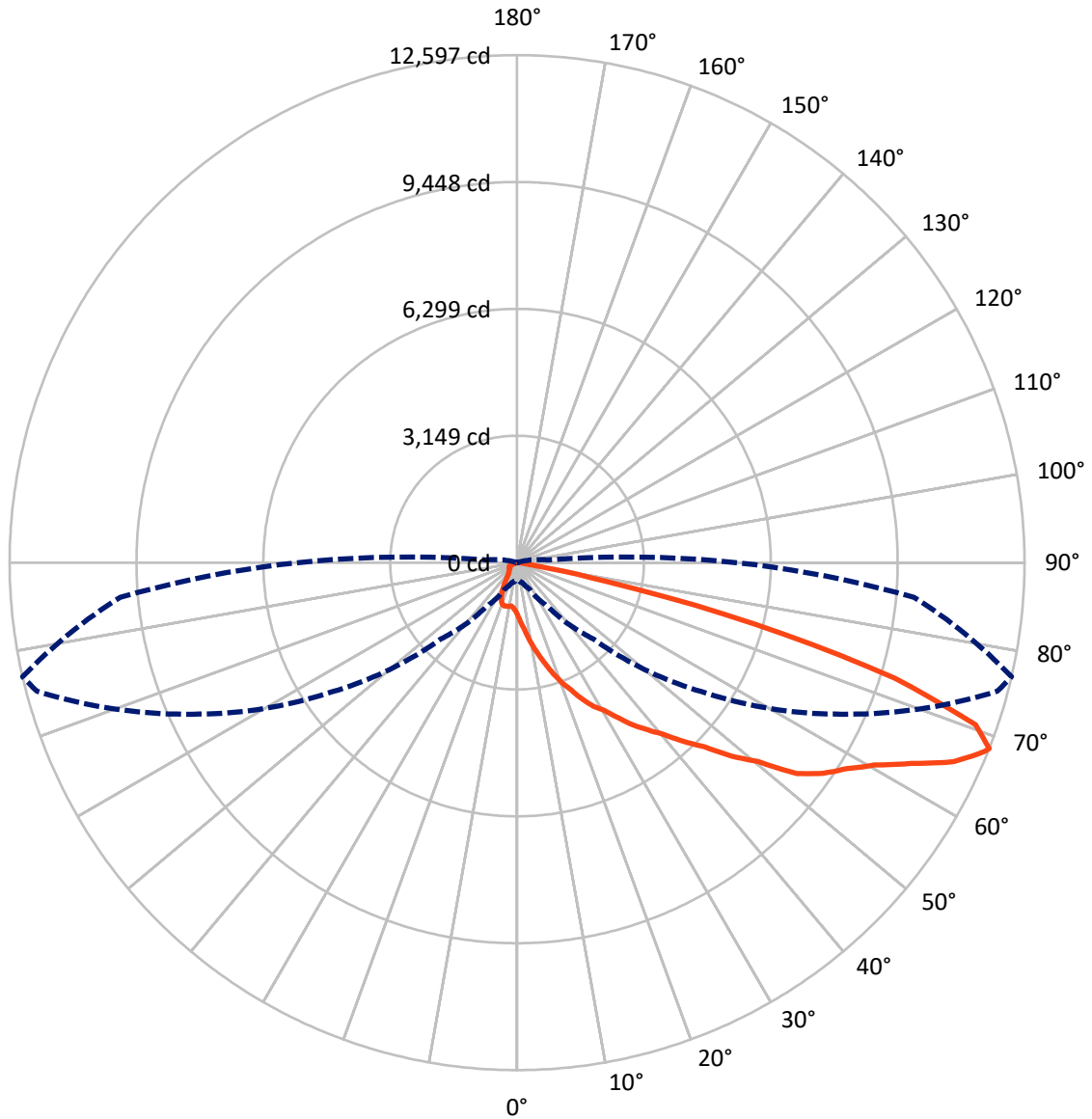
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 9.5 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	610.9	0.0	610.9
	% Fixture	4.5	0.0	4.5
Street Side	Lumens	12859.2	0.0	12859.2
	% Fixture	95.5	0.0	95.5
Total	Lumens	13470.1	0.0	13470.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.7	1.1
10°-20°	555.7	4.1
20°-30°	1077.0	8.0
30°-40°	1877.6	13.9
40°-50°	2749.9	20.4
50°-60°	3230.7	24.0
60°-70°	2728.0	20.3
70°-80°	1057.5	7.9
80°-90°	43.0	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°	13470.1	100.0
0°-180°	13470.1	100.0

Coefficient of Utilization

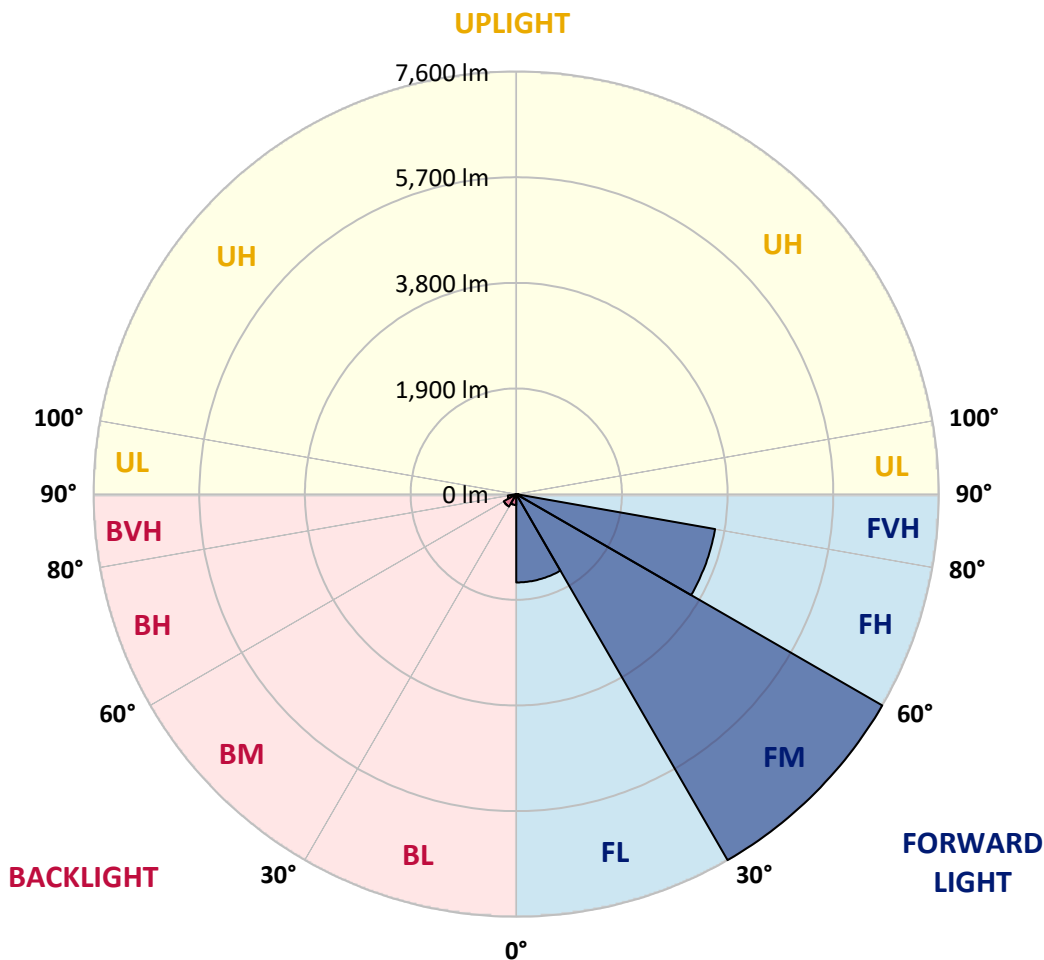


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1588.2	11.8			
FM (30°-60°)	7600.1	56.4			
FH (60°-80°)	3631.3	27.0			G2/5000
FVH (80°-90°)	39.7	0.3			G1/100
BL (0°-30°)	195.2	1.4	B1/500		
BM (30°-60°)	258.1	1.9	B1/1000		
BH (60°-80°)	154.2	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°	1289.8	1289.8	1289.8	1289.8	1289.8	1289.8	1289.8	1289.8	1289.8	1289.8	1289.8
2.5°	1959.7	1922.6	1883.6	1872.5	1800.1	1718.5	1642.4	1568.2	1443.8	1445.7	1360.3
5°	2525.7	2479.3	2447.8	2440.4	2327.2	2186.1	2071.1	1861.4	1655.4	1609.0	1453.1
7.5°	2991.5	2976.7	2930.3	2891.3	2807.8	2635.2	2499.8	2199.1	1885.5	1833.5	1566.3
10°	3273.6	3295.9	3316.3	3266.2	3201.3	3076.9	2891.3	2566.6	2147.2	2082.2	1712.9
12.5°	3574.3	3537.2	3550.1	3591.0	3505.6	3477.8	3247.6	2945.2	2453.4	2329.0	1898.5
15°	3652.2	3667.1	3698.6	3817.4	3874.9	3795.1	3596.5	3251.4	2770.7	2598.1	2071.1
17.5°	3704.2	3696.8	3735.7	3913.9	4001.1	4077.2	3952.9	3592.8	3047.2	2893.2	2286.3
20°	3769.1	3728.3	3813.7	3926.9	4129.2	4288.8	4283.2	3936.2	3336.7	3173.4	2499.8
22.5°	4010.4	3978.8	4047.5	4058.6	4199.7	4422.4	4476.2	4216.4	3633.7	3433.2	2729.9
25°	4455.8	4513.3	4431.6	4361.1	4403.8	4550.4	4589.4	4465.1	3932.4	3748.7	2960.0
27.5°	5107.2	5099.7	4938.3	4847.3	4745.3	4726.7	4754.6	4697.0	4168.1	4036.4	3149.3
30°	5806.8	5745.6	5597.1	5378.1	5153.6	5014.4	4975.4	4916.0	4444.6	4253.5	3336.7
32.5°	6363.5	6396.9	6231.8	5946.0	5573.0	5385.5	5198.1	5133.1	4749.0	4580.1	3552.0
35°	6875.7	6831.2	6699.4	6458.2	6124.1	5821.6	5528.4	5389.2	5114.6	4947.6	3789.5
37.5°	7254.3	7310.0	7059.5	6829.3	6497.2	6246.6	5959.0	5654.6	5491.3	5268.6	4079.0
40°	7612.5	7525.3	7356.4	7144.8	6836.8	6645.6	6456.3	5981.2	5892.2	5604.5	4405.7
42.5°	7549.4	7555.0	7462.2	7291.4	7068.7	6959.2	6894.3	6378.4	6255.9	6072.2	4724.9
45°	7291.4	7313.7	7345.3	7261.7	7280.3	7170.8	7345.3	6834.9	6714.3	6519.4	5092.3
47.5°	7007.5	7044.6	7037.2	7189.4	7362.0	7399.1	7835.2	7341.5	7289.6	7181.9	5600.8
50°	6536.1	6551.0	6693.9	6970.4	7206.1	7593.9	8202.6	7894.6	7974.4	7762.8	6205.8
52.5°	5730.7	5784.5	6152.0	6547.3	7022.3	7692.3	8451.3	8716.7	8919.0	8701.8	6786.7
55°	4711.9	4786.1	5148.0	5888.5	6584.4	7543.8	8677.7	9150.9	9561.1	9232.6	7139.3
57.5°	3791.4	3798.8	4123.6	4888.2	5962.7	7252.5	8792.8	9362.5	9913.7	9650.2	7569.8
60°	2889.5	2859.8	3151.1	3813.7	4916.0	6536.1	8505.1	9470.1	10353.5	10201.3	8087.6
62.5°	1859.5	1813.1	2130.5	2776.3	3839.6	5342.8	7929.8	9472.0	11040.2	10982.6	8954.2
65°	920.5	888.9	1161.7	1701.8	2657.5	4086.5	7109.6	9436.7	11879.0	11916.1	9798.6
67.5°	486.2	497.4	584.6	862.9	1532.9	2887.6	5873.6	9022.9	12307.7	12515.5	10002.8
68°	447.2	451.0	519.6	718.2	1330.6	2677.9	5580.4	8902.3	12341.1	12597.2	9889.6
70°	363.7	369.3	393.4	451.0	720.1	1742.6	4305.5	7877.9	11838.1	12072.0	8952.4
72.5°	289.5	306.2	321.1	345.2	423.1	914.9	2677.9	6139.0	9780.1	9806.0	6968.5
75°	220.8	233.8	263.5	283.9	330.3	502.9	1274.9	3743.1	6417.4	6101.9	4105.0
77.5°	170.7	181.9	194.9	222.7	276.5	339.6	389.7	1588.6	2726.2	2243.7	1159.9
80°	102.1	109.5	152.2	174.4	241.3	230.1	154.0	441.7	553.0	436.1	211.6
82.5°	59.4	65.0	87.2	133.6	168.9	124.3	90.9	137.3	135.5	118.8	70.5
85°	1.9	3.7	48.3	79.8	59.4	33.4	55.7	57.5	48.3	44.5	31.5
87.5°	0.0	1.9	13.0	11.1	13.0	7.4	11.1	14.8	18.6	16.7	13.0
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°	1289.8	1289.8	1289.8	1289.8	1289.8	1289.8	1289.8	1289.8	1289.8	1289.8	1289.8
2.5°	1302.8	1261.9	1171.0	1102.3	1028.1	983.6	939.0	911.2	896.4	887.1	894.5
5°	1336.2	1250.8	1104.2	974.3	888.9	831.4	773.9	744.2	716.3	701.5	710.8
7.5°	1410.4	1282.4	1039.2	898.2	798.0	708.9	636.5	579.0	545.6	515.9	521.5
10°	1501.3	1300.9	1041.1	853.7	708.9	567.9	465.8	393.4	352.6	326.6	324.8
12.5°	1594.1	1373.3	1048.5	809.1	599.4	426.8	306.2	252.4	228.3	215.3	215.3
15°	1735.2	1438.2	1030.0	727.5	454.7	278.4	209.7	191.1	181.9	170.7	172.6
17.5°	1857.7	1542.2	1020.7	605.0	311.8	200.4	174.4	154.0	144.8	133.6	133.6
20°	2022.8	1607.1	970.6	467.7	215.3	167.0	141.0	122.5	107.6	98.4	100.2
22.5°	2173.1	1657.2	881.5	319.2	165.2	131.8	103.9	85.4	72.4	61.2	63.1
25°	2336.5	1707.3	751.6	196.7	116.9	81.7	55.7	40.8	27.8	20.4	20.4
27.5°	2453.4	1722.2	582.7	116.9	70.5	37.1	13.0	1.9	0.0	0.0	0.0
30°	2572.1	1727.7	402.7	63.1	27.8	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	2707.6	1725.9	252.4	33.4	1.9	0.0	0.0	0.0	0.0	0.0	0.0
35°	2811.5	1694.3	120.6	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	2969.3	1647.9	37.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	3149.3	1564.4	7.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	3310.7	1479.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	3494.5	1373.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	3817.4	1328.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	4238.6	1293.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	4498.5	1189.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	4633.9	1081.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	4834.4	1030.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	5131.3	1033.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	5595.2	1085.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	5851.3	1033.7	7.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	5634.2	827.7	35.3	9.3	1.9	0.0	0.0	0.0	0.0	0.0	0.0
68°	5446.8	760.9	35.3	9.3	1.9	0.0	0.0	0.0	0.0	0.0	0.0
70°	4502.2	495.5	33.4	9.3	3.7	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	3279.2	274.7	27.8	7.4	3.7	0.0	0.0	0.0	0.0	0.0	0.0
75°	1907.8	137.3	20.4	7.4	3.7	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	497.4	68.7	16.7	9.3	5.6	1.9	0.0	0.0	0.0	0.0	0.0
80°	98.4	44.5	14.8	11.1	7.4	3.7	0.0	0.0	0.0	0.0	0.0
82.5°	46.4	31.5	14.8	11.1	9.3	5.6	1.9	0.0	0.0	0.0	0.0
85°	24.1	14.8	14.8	11.1	11.1	7.4	3.7	0.0	0.0	0.0	0.0
87.5°	11.1	5.6	5.6	5.6	5.6	3.7	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)