

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: P482193

Luminaire Tested: **IFLD-M-SA4A-827-U-T2R-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P482193
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4A-827-U-T2R-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens with House Side Shield
Light Source: (64) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10673.1 lumens
Efficiency: N/A
Efficacy: 83.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

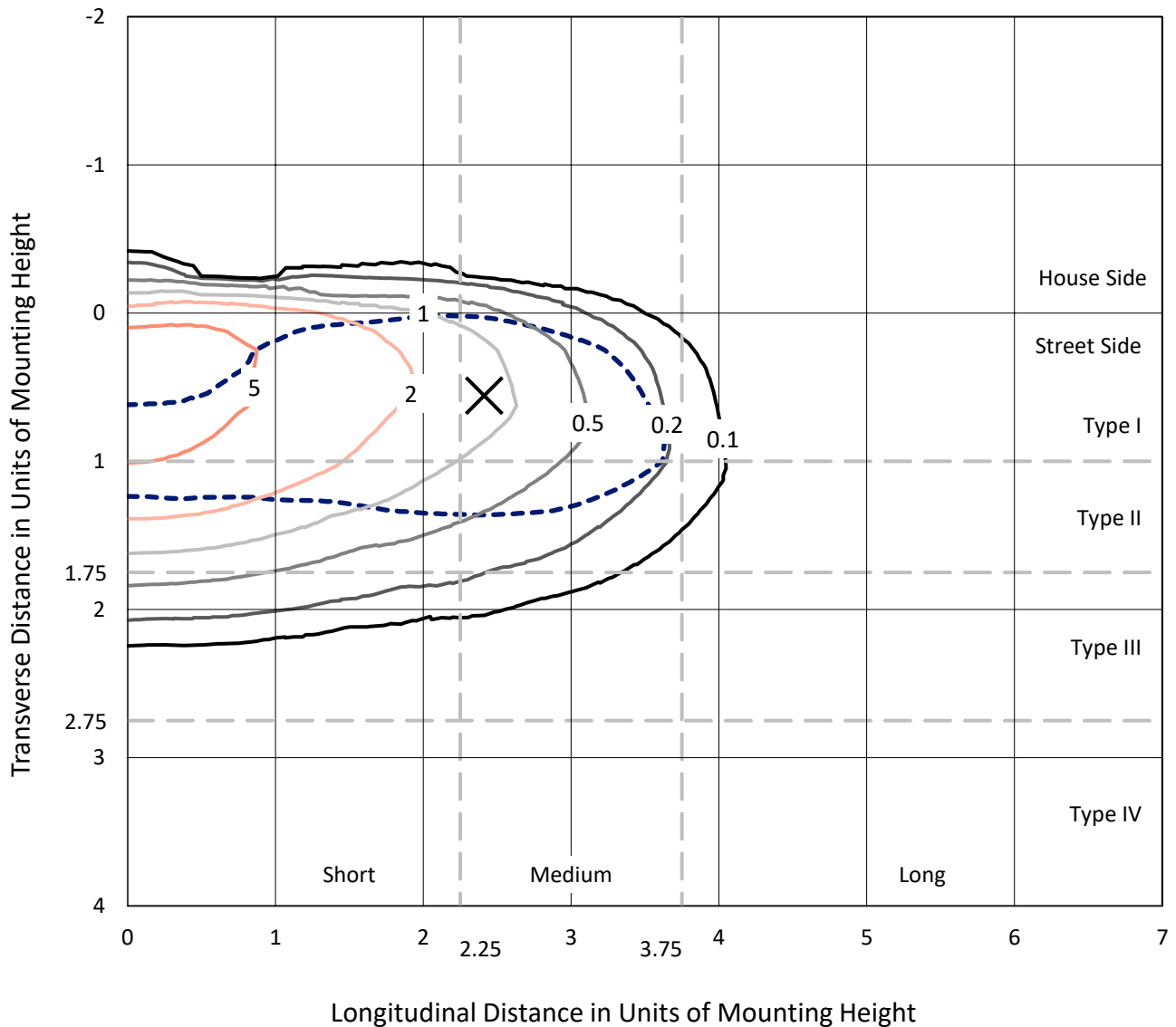
Input Watts (W): 128.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

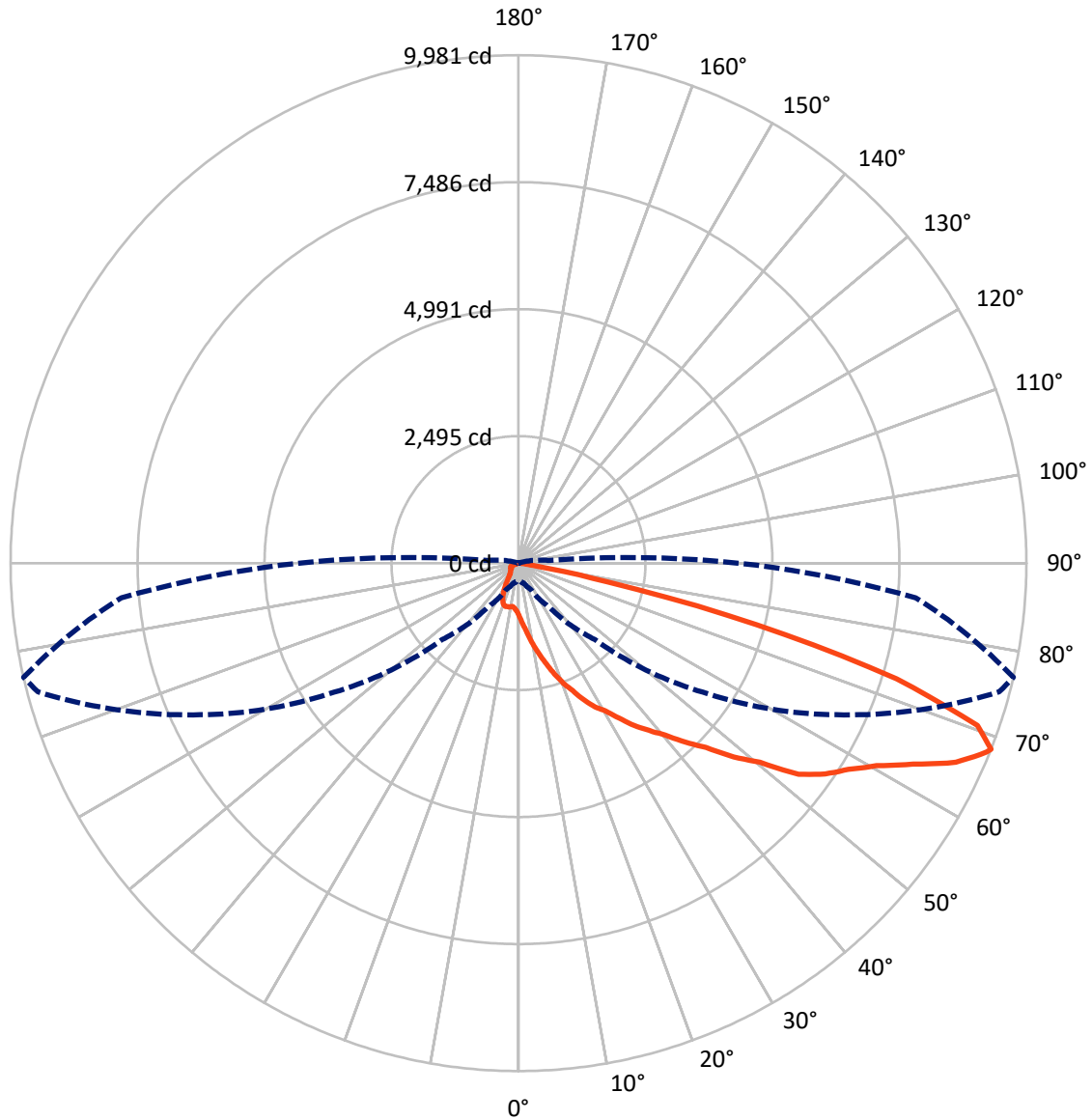
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 7.6 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	484.0	0.0	484.0
	% Fixture	4.5	0.0	4.5
Street Side	Lumens	10189.0	0.0	10189.0
	% Fixture	95.5	0.0	95.5
Total	Lumens	10673.1	0.0	10673.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.4	1.1
10°-20°	440.3	4.1
20°-30°	853.4	8.0
30°-40°	1487.7	13.9
40°-50°	2178.9	20.4
50°-60°	2559.9	24.0
60°-70°	2161.6	20.3
70°-80°	837.9	7.9
80°-90°	34.1	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°	10673.1	100.0
0°-180°	10673.1	100.0

Coefficient of Utilization



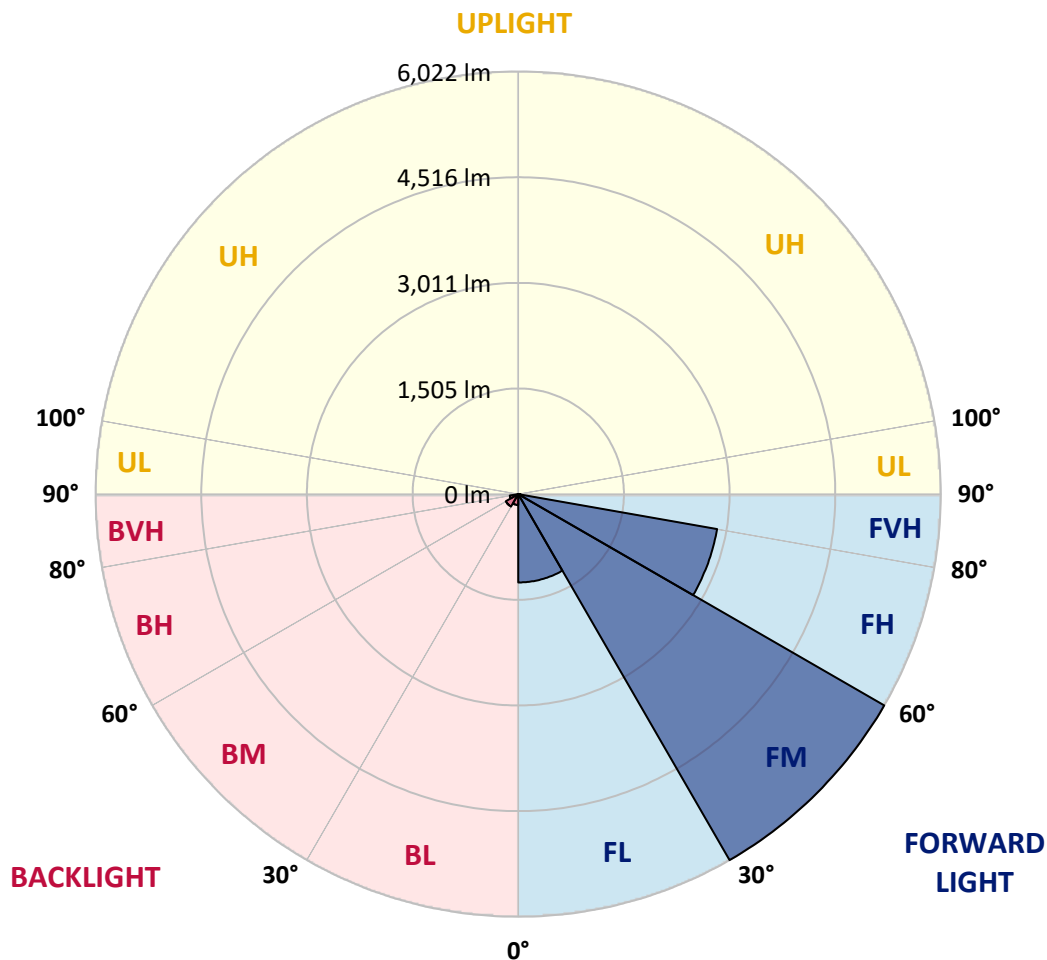
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1258.4	11.8			
FM (30°-60°)	6021.9	56.4			
FH (60°-80°)	2877.2	27.0			G2/5000
FVH (80°-90°)	31.4	0.3			G1/100
BL (0°-30°)	154.6	1.4	B1/500		
BM (30°-60°)	204.5	1.9	B0/220		
BH (60°-80°)	122.2	1.1	B1/500		G1/500
BVH (80°-90°)	2.6	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°	1022.0	1022.0	1022.0	1022.0	1022.0	1022.0	1022.0	1022.0	1022.0	1022.0	1022.0
2.5°	1552.8	1523.4	1492.5	1483.7	1426.3	1361.6	1301.3	1242.5	1144.0	1145.5	1077.8
5°	2001.3	1964.5	1939.5	1933.6	1843.9	1732.2	1641.0	1474.9	1311.6	1274.9	1151.4
7.5°	2370.4	2358.6	2321.8	2291.0	2224.8	2088.0	1980.7	1742.5	1494.0	1452.8	1241.1
10°	2593.9	2611.5	2627.7	2588.0	2536.5	2438.0	2291.0	2033.6	1701.3	1649.8	1357.2
12.5°	2832.1	2802.7	2813.0	2845.3	2777.7	2755.6	2573.3	2333.6	1943.9	1845.4	1504.3
15°	2893.8	2905.6	2930.6	3024.7	3070.3	3007.1	2849.7	2576.2	2195.4	2058.6	1641.0
17.5°	2935.0	2929.1	2960.0	3101.2	3170.3	3230.6	3132.1	2846.8	2414.5	2292.4	1811.6
20°	2986.5	2954.1	3021.8	3111.5	3271.7	3398.2	3393.8	3118.8	2643.9	2514.5	1980.7
22.5°	3177.6	3152.6	3207.0	3215.9	3327.6	3504.1	3546.7	3340.9	2879.1	2720.3	2163.0
25°	3530.5	3576.1	3511.4	3455.6	3489.4	3605.5	3636.4	3537.9	3115.9	2970.3	2345.4
27.5°	4046.7	4040.8	3912.9	3840.8	3759.9	3745.2	3767.3	3721.7	3302.6	3198.2	2495.3
30°	4601.0	4552.5	4434.9	4261.4	4083.4	3973.1	3942.3	3895.2	3521.7	3370.3	2643.9
32.5°	5042.2	5068.6	4937.8	4711.3	4415.8	4267.2	4118.7	4067.3	3762.9	3629.1	2814.4
35°	5448.0	5412.7	5308.3	5117.2	4852.5	4612.8	4380.5	4270.2	4052.6	3920.2	3002.7
37.5°	5748.0	5792.1	5593.6	5411.2	5148.0	4949.5	4721.6	4480.5	4351.1	4174.6	3232.0
40°	6031.8	5962.7	5828.9	5661.2	5417.1	5265.7	5115.7	4739.3	4668.7	4440.8	3490.8
42.5°	5981.8	5986.2	5912.7	5777.4	5600.9	5514.2	5462.7	5053.9	4956.9	4811.3	3743.8
45°	5777.4	5795.0	5820.0	5753.9	5768.6	5681.8	5820.0	5415.7	5320.1	5165.7	4034.9
47.5°	5552.4	5581.8	5575.9	5696.5	5833.3	5862.7	6208.2	5817.1	5775.9	5690.6	4437.8
50°	5178.9	5190.7	5303.9	5523.0	5709.7	6017.1	6499.4	6255.3	6318.5	6150.9	4917.2
52.5°	4540.7	4583.4	4874.5	5187.7	5564.2	6095.0	6696.4	6906.7	7067.0	6894.9	5377.4
55°	3733.5	3792.3	4079.0	4665.7	5217.1	5977.4	6875.8	7250.8	7575.7	7315.5	5656.8
57.5°	3004.1	3010.0	3267.3	3873.2	4724.5	5746.5	6967.0	7418.4	7855.1	7646.3	5998.0
60°	2289.5	2266.0	2496.8	3021.8	3895.2	5178.9	6739.1	7503.7	8203.6	8083.0	6408.2
62.5°	1473.4	1436.6	1688.1	2199.8	3042.4	4233.4	6283.2	7505.2	8747.7	8702.1	7094.9
65°	729.3	704.3	920.5	1348.4	2105.7	3237.9	5633.3	7477.2	9412.3	9441.7	7764.0
67.5°	385.3	394.1	463.2	683.8	1214.6	2288.0	4654.0	7149.3	9752.0	9916.7	7925.7
68°	354.4	357.3	411.7	569.1	1054.3	2121.9	4421.6	7053.7	9778.5	9981.4	7836.0
70°	288.2	292.6	311.7	357.3	570.5	1380.7	3411.4	6242.0	9380.0	9565.3	7093.4
72.5°	229.4	242.6	254.4	273.5	335.3	724.9	2121.9	4864.2	7749.3	7769.8	5521.5
75°	175.0	185.3	208.8	225.0	261.7	398.5	1010.2	2965.9	5084.8	4834.8	3252.6
77.5°	135.3	144.1	154.4	176.5	219.1	269.1	308.8	1258.7	2160.1	1777.8	919.0
80°	80.9	86.8	120.6	138.2	191.2	182.3	122.0	350.0	438.2	345.6	167.6
82.5°	47.1	51.5	69.1	105.9	133.8	98.5	72.1	108.8	107.3	94.1	55.9
85°	1.5	2.9	38.2	63.2	47.1	26.5	44.1	45.6	38.2	35.3	25.0
87.5°	0.0	1.5	10.3	8.8	10.3	5.9	8.8	11.8	14.7	13.2	10.3
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°	1022.0	1022.0	1022.0	1022.0	1022.0	1022.0	1022.0	1022.0	1022.0	1022.0	1022.0
2.5°	1032.3	999.9	927.9	873.4	814.6	779.3	744.0	722.0	710.2	702.9	708.8
5°	1058.7	991.1	874.9	772.0	704.3	658.8	613.2	589.6	567.6	555.8	563.2
7.5°	1117.5	1016.1	823.5	711.7	632.3	561.7	504.4	458.8	432.3	408.8	413.2
10°	1189.6	1030.8	824.9	676.4	561.7	450.0	369.1	311.7	279.4	258.8	257.3
12.5°	1263.1	1088.1	830.8	641.1	475.0	338.2	242.6	200.0	180.9	170.6	170.6
15°	1374.9	1139.6	816.1	576.4	360.3	220.6	166.2	151.5	144.1	135.3	136.8
17.5°	1471.9	1221.9	808.7	479.4	247.0	158.8	138.2	122.0	114.7	105.9	105.9
20°	1602.8	1273.4	769.0	370.6	170.6	132.3	111.8	97.0	85.3	77.9	79.4
22.5°	1721.9	1313.1	698.5	252.9	130.9	104.4	82.3	67.6	57.3	48.5	50.0
25°	1851.3	1352.8	595.5	155.9	92.6	64.7	44.1	32.3	22.1	16.2	16.2
27.5°	1943.9	1364.6	461.7	92.6	55.9	29.4	10.3	1.5	0.0	0.0	0.0
30°	2038.0	1369.0	319.1	50.0	22.1	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	2145.4	1367.5	200.0	26.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0
35°	2227.7	1342.5	95.6	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	2352.7	1305.8	29.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	2495.3	1239.6	5.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	2623.3	1171.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	2768.9	1088.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	3024.7	1052.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	3358.5	1024.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	3564.4	942.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	3671.7	857.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	3830.5	816.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	4065.8	819.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	4433.4	860.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	4636.3	819.0	5.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	4464.3	655.8	27.9	7.4	1.5	0.0	0.0	0.0	0.0	0.0	0.0
68°	4315.8	602.9	27.9	7.4	1.5	0.0	0.0	0.0	0.0	0.0	0.0
70°	3567.3	392.6	26.5	7.4	2.9	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	2598.3	217.6	22.1	5.9	2.9	0.0	0.0	0.0	0.0	0.0	0.0
75°	1511.6	108.8	16.2	5.9	2.9	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	394.1	54.4	13.2	7.4	4.4	1.5	0.0	0.0	0.0	0.0	0.0
80°	77.9	35.3	11.8	8.8	5.9	2.9	0.0	0.0	0.0	0.0	0.0
82.5°	36.8	25.0	11.8	8.8	7.4	4.4	1.5	0.0	0.0	0.0	0.0
85°	19.1	11.8	11.8	8.8	8.8	5.9	2.9	0.0	0.0	0.0	0.0
87.5°	8.8	4.4	4.4	4.4	4.4	2.9	1.5	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)