

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: P481897

Luminaire Tested: **IFLD-S-SA2C-722-U-T2R-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481897
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2C-722-U-T2R-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens with House Side Shield
Light Source: (32) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

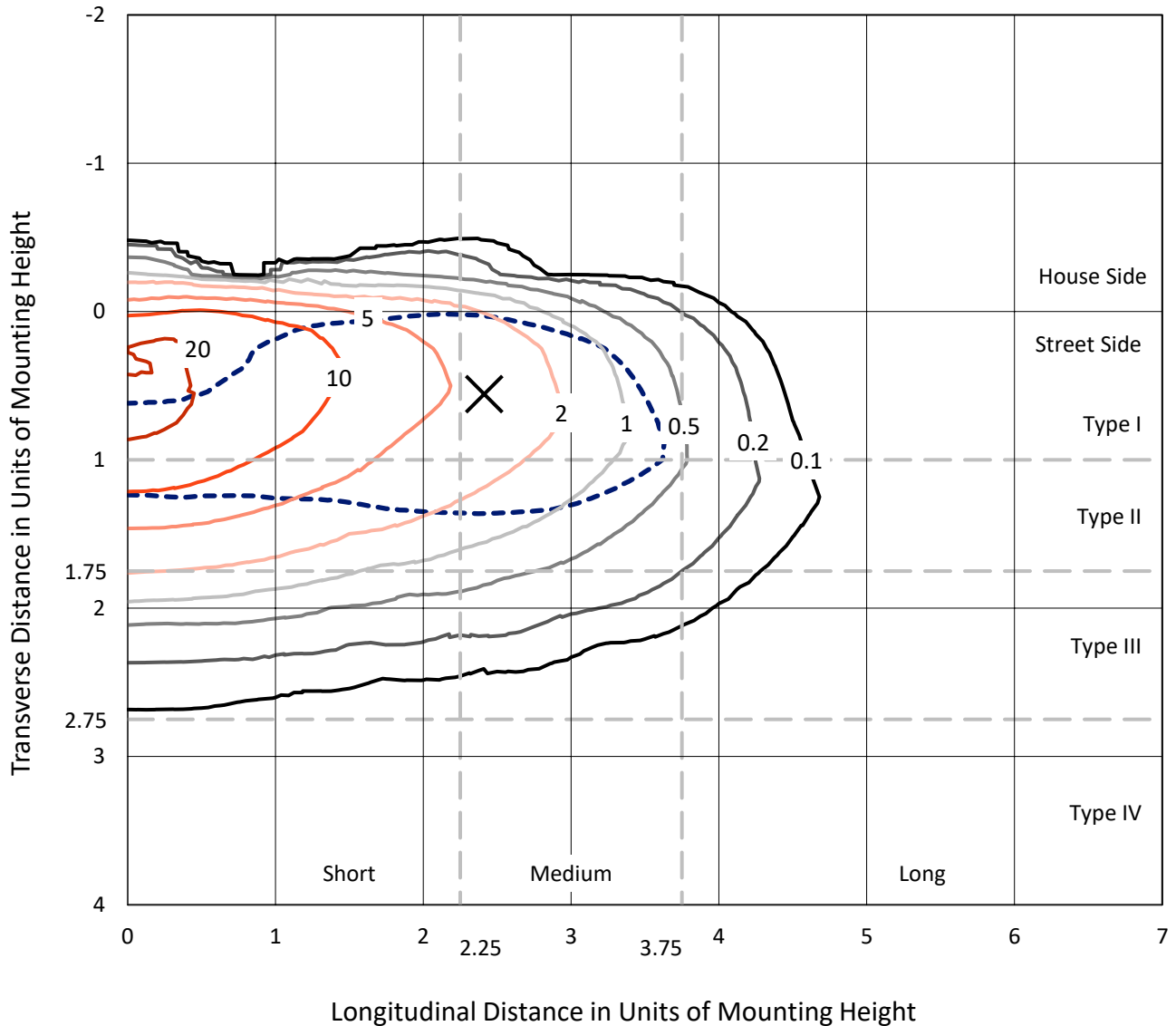
Lumens per Lamp: N/A
Luminaire Lumens: 8231.3 lumens
Efficiency: N/A
Efficacy: 76.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 108.2
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

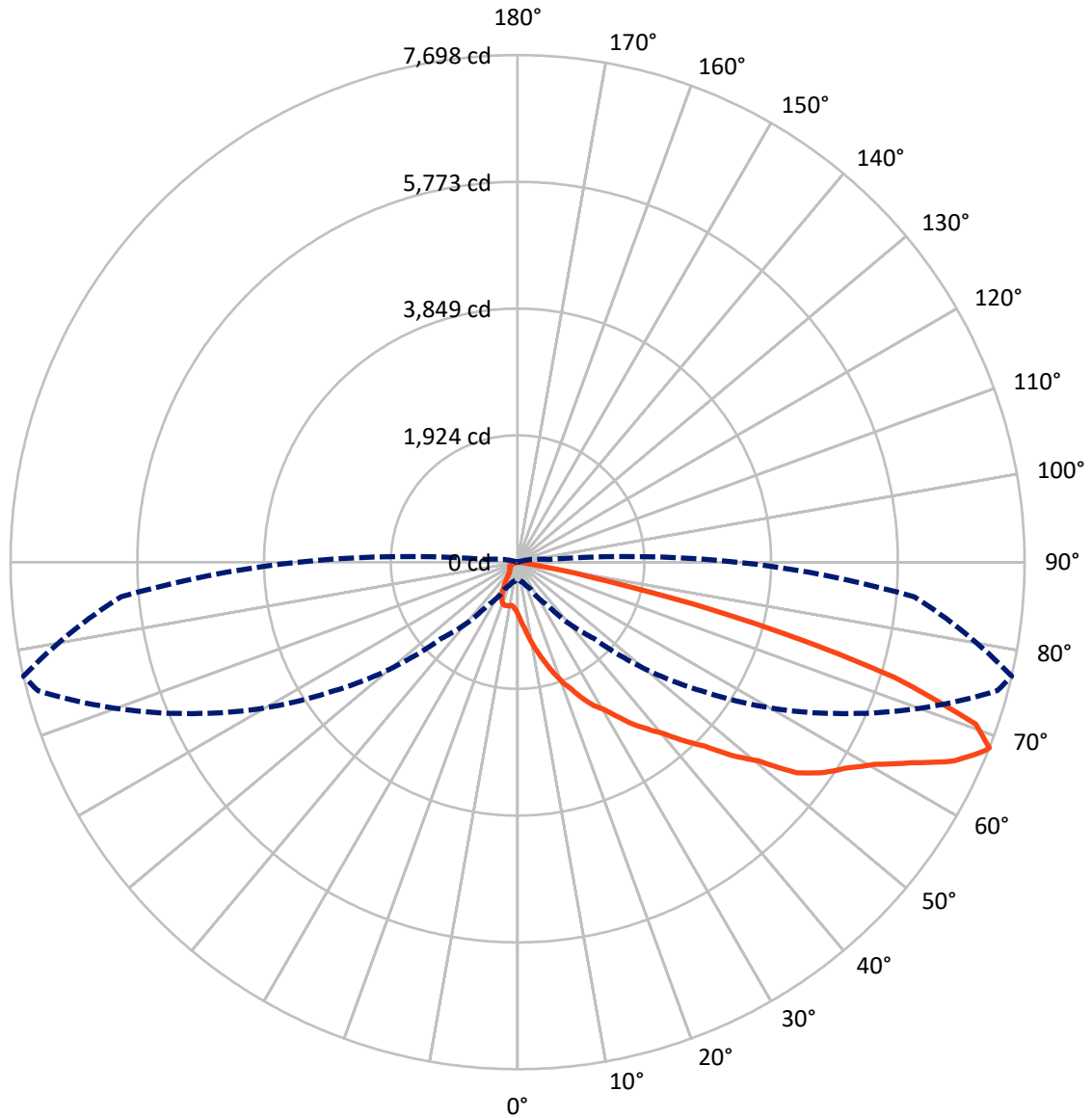
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 23.3 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	373.3	0.0	373.3
	% Fixture	4.5	0.0	4.5
Street Side	Lumens	7858.0	0.0	7858.0
	% Fixture	95.5	0.0	95.5
Total	Lumens	8231.3	0.0	8231.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.1	1.1
10°-20°	339.6	4.1
20°-30°	658.1	8.0
30°-40°	1147.4	13.9
40°-50°	1680.4	20.4
50°-60°	1974.2	24.0
60°-70°	1667.0	20.3
70°-80°	646.2	7.9
80°-90°	26.3	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°	8231.3	100.0
0°-180°	8231.3	100.0

Coefficient of Utilization



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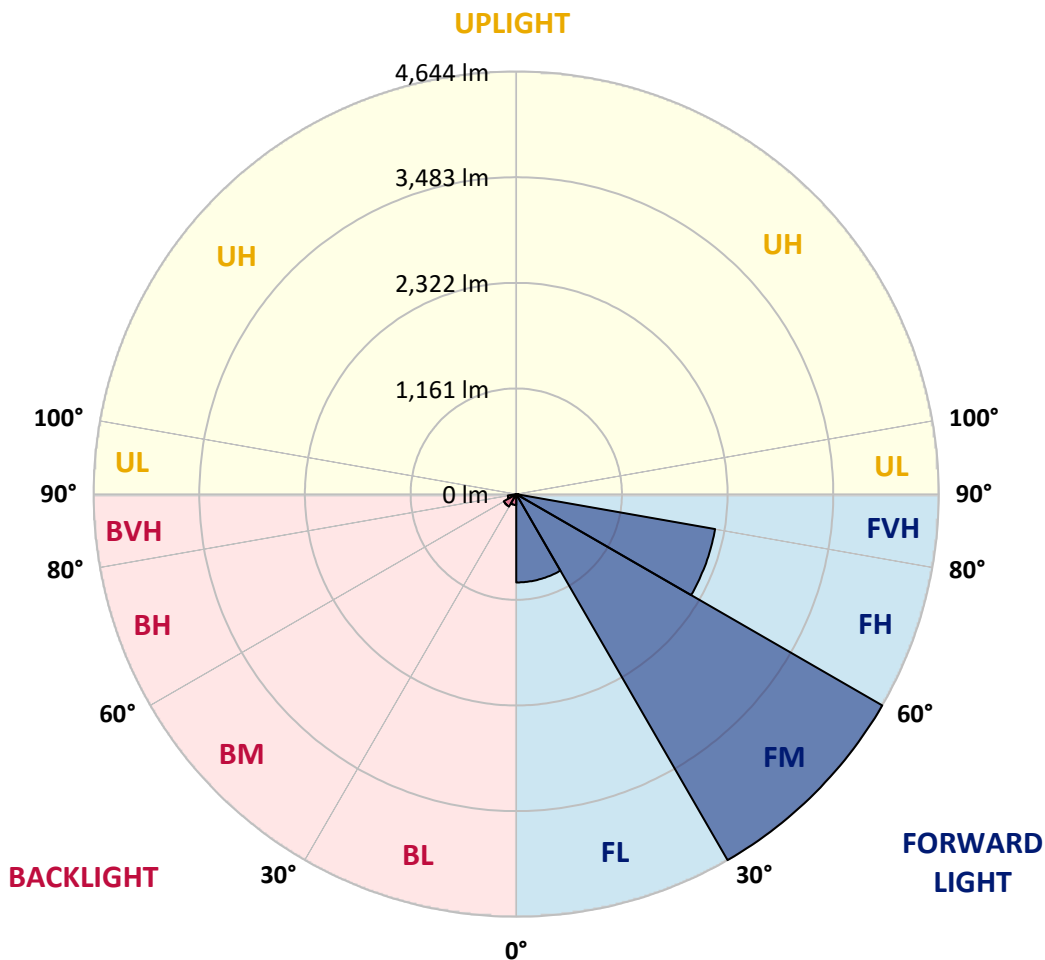
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	970.5	11.8			
FM (30°-60°)	4644.2	56.4			
FH (60°-80°)	2219.0	27.0			G2/5000
FVH (80°-90°)	24.2	0.3			G1/100
BL (0°-30°)	119.3	1.4	B1/500		
BM (30°-60°)	157.7	1.9	B0/220		
BH (60°-80°)	94.3	1.1	B0/110		G0/110
BVH (80°-90°)	2.0	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°	788.2	788.2	788.2	788.2	788.2	788.2	788.2	788.2	788.2	788.2	788.2
2.5°	1197.5	1174.9	1151.0	1144.2	1100.0	1050.1	1003.6	958.3	882.3	883.4	831.3
5°	1543.4	1515.1	1495.8	1491.3	1422.1	1335.9	1265.6	1137.4	1011.6	983.2	888.0
7.5°	1828.1	1819.0	1790.6	1766.8	1715.8	1610.3	1527.5	1343.8	1152.2	1120.4	957.1
10°	2000.4	2014.1	2026.5	1995.9	1956.2	1880.2	1766.8	1568.4	1312.1	1272.4	1046.7
12.5°	2184.2	2161.5	2169.4	2194.4	2142.2	2125.2	1984.6	1799.7	1499.2	1423.2	1160.1
15°	2231.8	2240.9	2260.1	2332.7	2367.9	2319.1	2197.8	1986.8	1693.1	1587.7	1265.6
17.5°	2263.5	2259.0	2282.8	2391.7	2445.0	2491.5	2415.5	2195.5	1862.1	1768.0	1397.1
20°	2303.2	2278.3	2330.4	2399.6	2523.2	2620.8	2617.4	2405.3	2039.0	1939.2	1527.5
22.5°	2450.7	2431.4	2473.3	2480.1	2566.3	2702.4	2735.3	2576.5	2220.4	2098.0	1668.2
25°	2722.8	2758.0	2708.1	2665.0	2691.1	2780.7	2804.5	2728.5	2403.0	2290.8	1808.8
27.5°	3120.9	3116.3	3017.7	2962.1	2899.7	2888.4	2905.4	2870.3	2547.1	2466.5	1924.5
30°	3548.4	3511.0	3420.3	3286.4	3149.2	3064.2	3040.4	3004.1	2716.0	2599.2	2039.0
32.5°	3888.6	3909.0	3808.1	3633.5	3405.5	3291.0	3176.4	3136.8	2902.0	2798.8	2170.5
35°	4201.6	4174.4	4093.9	3946.5	3742.3	3557.5	3378.3	3293.2	3125.4	3023.3	2315.7
37.5°	4433.0	4467.0	4313.9	4173.3	3970.3	3817.2	3641.4	3455.4	3355.6	3219.5	2492.6
40°	4651.8	4598.5	4495.3	4366.0	4177.8	4061.0	3945.3	3655.0	3600.6	3424.8	2692.2
42.5°	4613.3	4616.7	4560.0	4455.6	4319.6	4252.6	4213.0	3897.7	3822.8	3710.6	2887.3
45°	4455.6	4469.2	4488.5	4437.5	4448.8	4381.9	4488.5	4176.7	4103.0	3983.9	3111.8
47.5°	4282.1	4304.8	4300.3	4393.3	4498.7	4521.4	4787.9	4486.3	4454.5	4388.7	3422.5
50°	3994.1	4003.2	4090.5	4259.4	4403.5	4640.5	5012.4	4824.2	4873.0	4743.7	3792.2
52.5°	3501.9	3534.8	3759.3	4000.9	4291.2	4700.6	5164.4	5326.6	5450.2	5317.5	4147.2
55°	2879.3	2924.7	3145.8	3598.3	4023.6	4609.9	5302.8	5591.9	5842.6	5641.8	4362.6
57.5°	2316.8	2321.4	2519.8	2987.1	3643.7	4431.8	5373.1	5721.2	6058.0	5897.0	4625.7
60°	1765.7	1747.6	1925.6	2330.4	3004.1	3994.1	5197.3	5787.0	6326.8	6233.8	4942.1
62.5°	1136.3	1108.0	1301.9	1696.5	2346.3	3264.9	4845.7	5788.1	6746.4	6711.2	5471.7
65°	562.5	543.2	709.9	1039.9	1623.9	2497.2	4344.5	5766.6	7259.0	7281.7	5987.7
67.5°	297.1	303.9	357.2	527.3	936.7	1764.6	3589.2	5513.7	7520.9	7648.0	6112.5
68°	273.3	275.6	317.5	438.9	813.1	1636.4	3410.1	5440.0	7541.4	7697.9	6043.3
70°	222.3	225.7	240.4	275.6	440.0	1064.9	2631.0	4814.0	7234.0	7376.9	5470.6
72.5°	176.9	187.1	196.2	210.9	258.6	559.1	1636.4	3751.4	5976.4	5992.3	4258.3
75°	135.0	142.9	161.0	173.5	201.9	307.3	779.1	2287.4	3921.5	3728.7	2508.5
77.5°	104.3	111.1	119.1	136.1	169.0	207.5	238.1	970.7	1665.9	1371.1	708.8
80°	62.4	66.9	93.0	106.6	147.4	140.6	94.1	269.9	337.9	266.5	129.3
82.5°	36.3	39.7	53.3	81.7	103.2	76.0	55.6	83.9	82.8	72.6	43.1
85°	1.1	2.3	29.5	48.8	36.3	20.4	34.0	35.2	29.5	27.2	19.3
87.5°	0.0	1.1	7.9	6.8	7.9	4.5	6.8	9.1	11.3	10.2	7.9
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°	788.2	788.2	788.2	788.2	788.2	788.2	788.2	788.2	788.2	788.2	788.2
2.5°	796.1	771.1	715.6	673.6	628.3	601.0	573.8	556.8	547.7	542.1	546.6
5°	816.5	764.3	674.8	595.4	543.2	508.0	472.9	454.7	437.7	428.7	434.3
7.5°	861.9	783.6	635.1	548.9	487.6	433.2	389.0	353.8	333.4	315.3	318.7
10°	917.4	795.0	636.2	521.7	433.2	347.0	284.6	240.4	215.5	199.6	198.5
12.5°	974.1	839.2	640.7	494.4	366.3	260.8	187.1	154.2	139.5	131.5	131.5
15°	1060.3	878.9	629.4	444.5	277.8	170.1	128.1	116.8	111.1	104.3	105.5
17.5°	1135.2	942.4	623.7	369.7	190.5	122.5	106.6	94.1	88.5	81.7	81.7
20°	1236.1	982.1	593.1	285.8	131.5	102.1	86.2	74.8	65.8	60.1	61.2
22.5°	1328.0	1012.7	538.7	195.1	100.9	80.5	63.5	52.2	44.2	37.4	38.6
25°	1427.8	1043.3	459.3	120.2	71.4	49.9	34.0	24.9	17.0	12.5	12.5
27.5°	1499.2	1052.4	356.1	71.4	43.1	22.7	7.9	1.1	0.0	0.0	0.0
30°	1571.8	1055.8	246.1	38.6	17.0	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	1654.6	1054.7	154.2	20.4	1.1	0.0	0.0	0.0	0.0	0.0	0.0
35°	1718.1	1035.4	73.7	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	1814.5	1007.0	22.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	1924.5	956.0	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	2023.1	903.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	2135.4	839.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	2332.7	812.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	2590.1	790.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	2748.9	726.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	2831.7	661.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	2954.2	629.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	3135.6	631.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	3419.1	663.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	3575.6	631.7	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	3442.9	505.8	21.5	5.7	1.1	0.0	0.0	0.0	0.0	0.0	0.0
68°	3328.4	465.0	21.5	5.7	1.1	0.0	0.0	0.0	0.0	0.0	0.0
70°	2751.2	302.8	20.4	5.7	2.3	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	2003.8	167.8	17.0	4.5	2.3	0.0	0.0	0.0	0.0	0.0	0.0
75°	1165.8	83.9	12.5	4.5	2.3	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	303.9	42.0	10.2	5.7	3.4	1.1	0.0	0.0	0.0	0.0	0.0
80°	60.1	27.2	9.1	6.8	4.5	2.3	0.0	0.0	0.0	0.0	0.0
82.5°	28.4	19.3	9.1	6.8	5.7	3.4	1.1	0.0	0.0	0.0	0.0
85°	14.7	9.1	9.1	6.8	6.8	4.5	2.3	0.0	0.0	0.0	0.0
87.5°	6.8	3.4	3.4	3.4	3.4	2.3	1.1	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)