

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: P481940

Luminaire Tested: **IFLD-S-SA3B-727-U-T2R-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P481940  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3B-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**

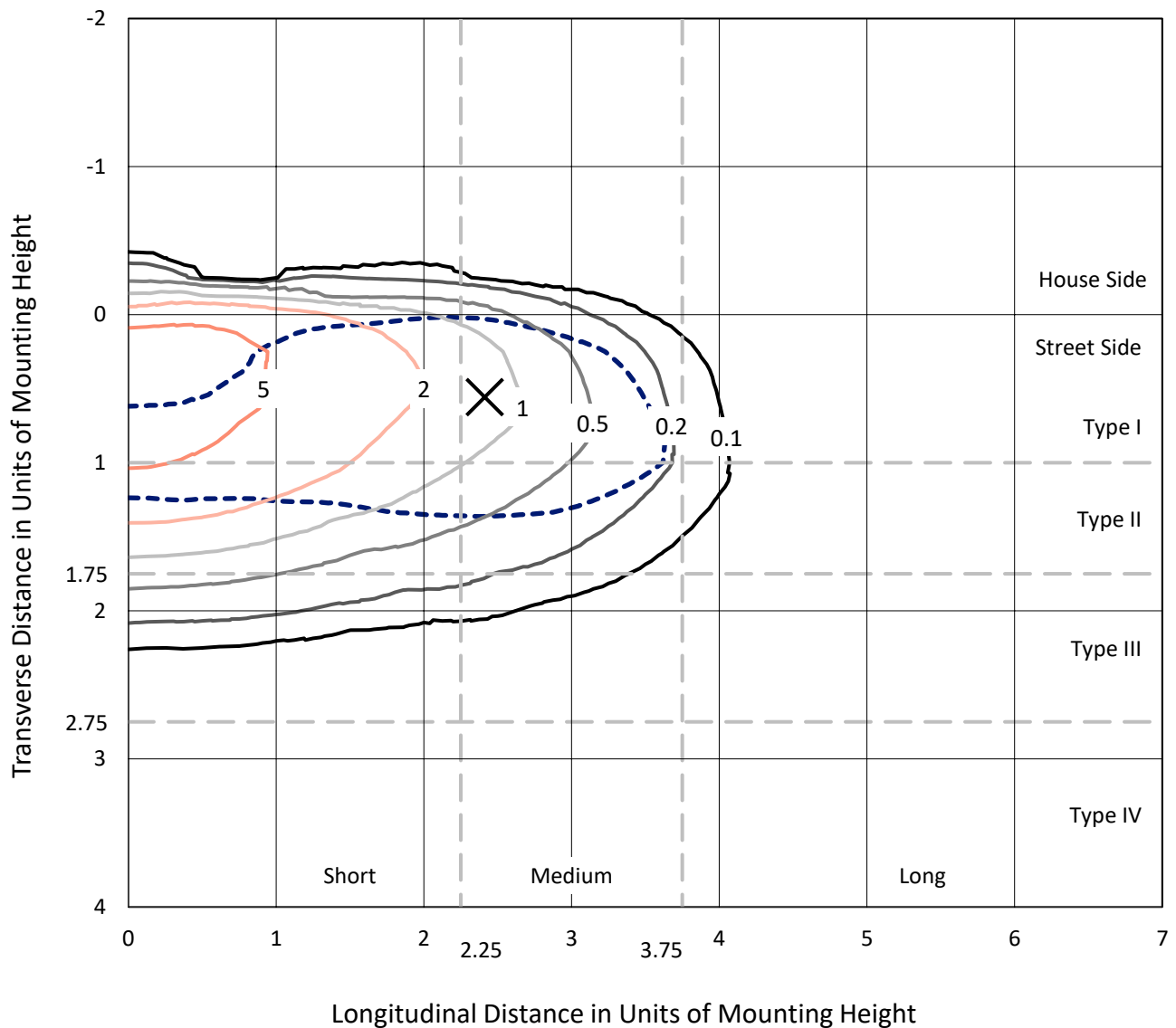
Lumens per Lamp: N/A  
Luminaire Lumens: 11188 lumens  
Efficiency: N/A  
Efficacy: 91.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G2

Input Watts (W): 122.4  
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

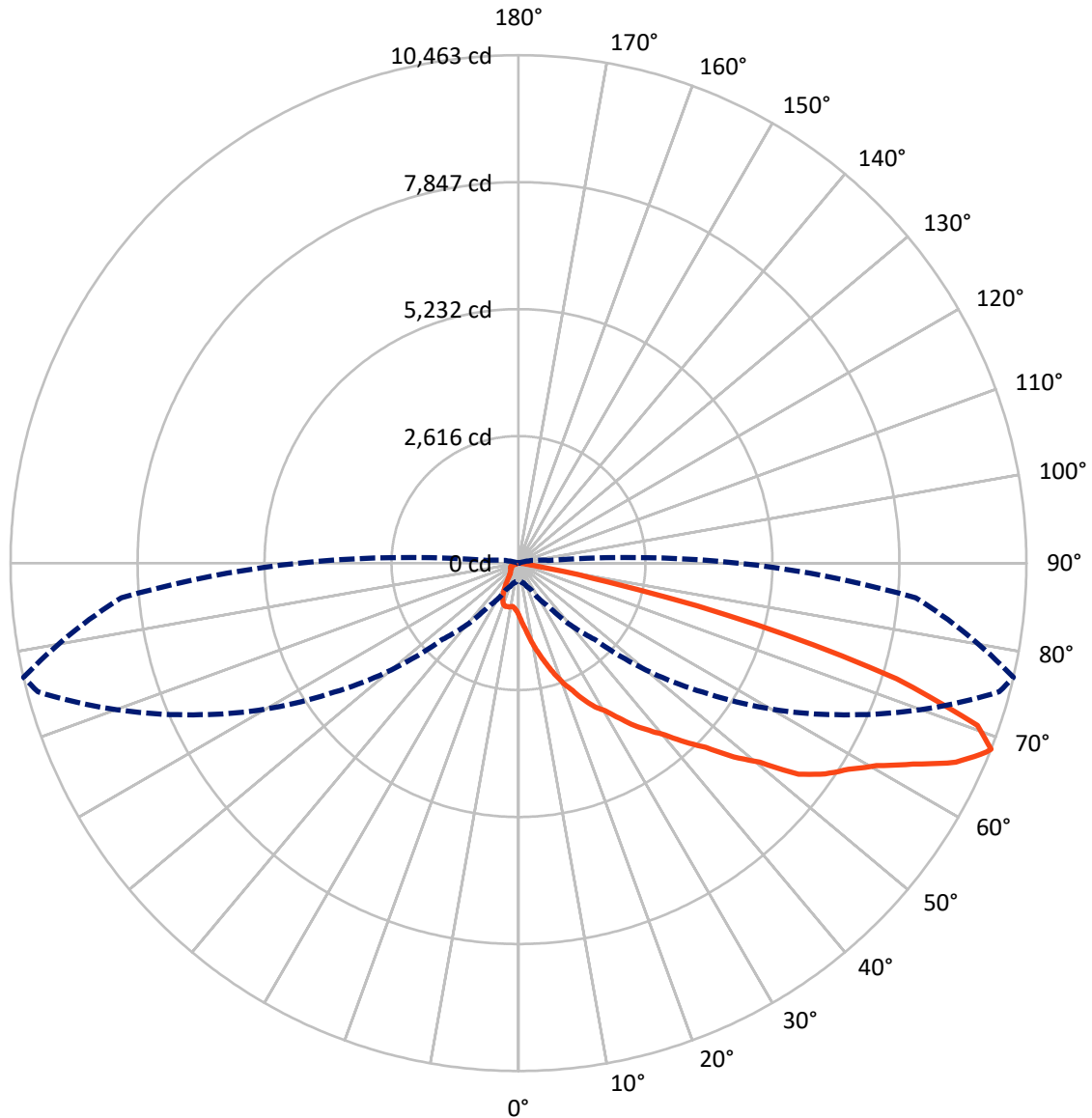
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 7.9 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
<b>House Side</b>	Lumens	507.4	0.0	507.4
	% Fixture	4.5	0.0	4.5
<b>Street Side</b>	Lumens	10680.6	0.0	10680.6
	% Fixture	95.5	0.0	95.5
<b>Total</b>	Lumens	11188.0	0.0	11188.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	125.2	1.1
10°-20°	461.6	4.1
20°-30°	894.5	8.0
30°-40°	1559.5	13.9
40°-50°	2284.0	20.4
50°-60°	2683.4	24.0
60°-70°	2265.9	20.3
70°-80°	878.3	7.9
80°-90°	35.7	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°	11188.0	100.0
0°-180°	11188.0	100.0

**Coefficient of Utilization**

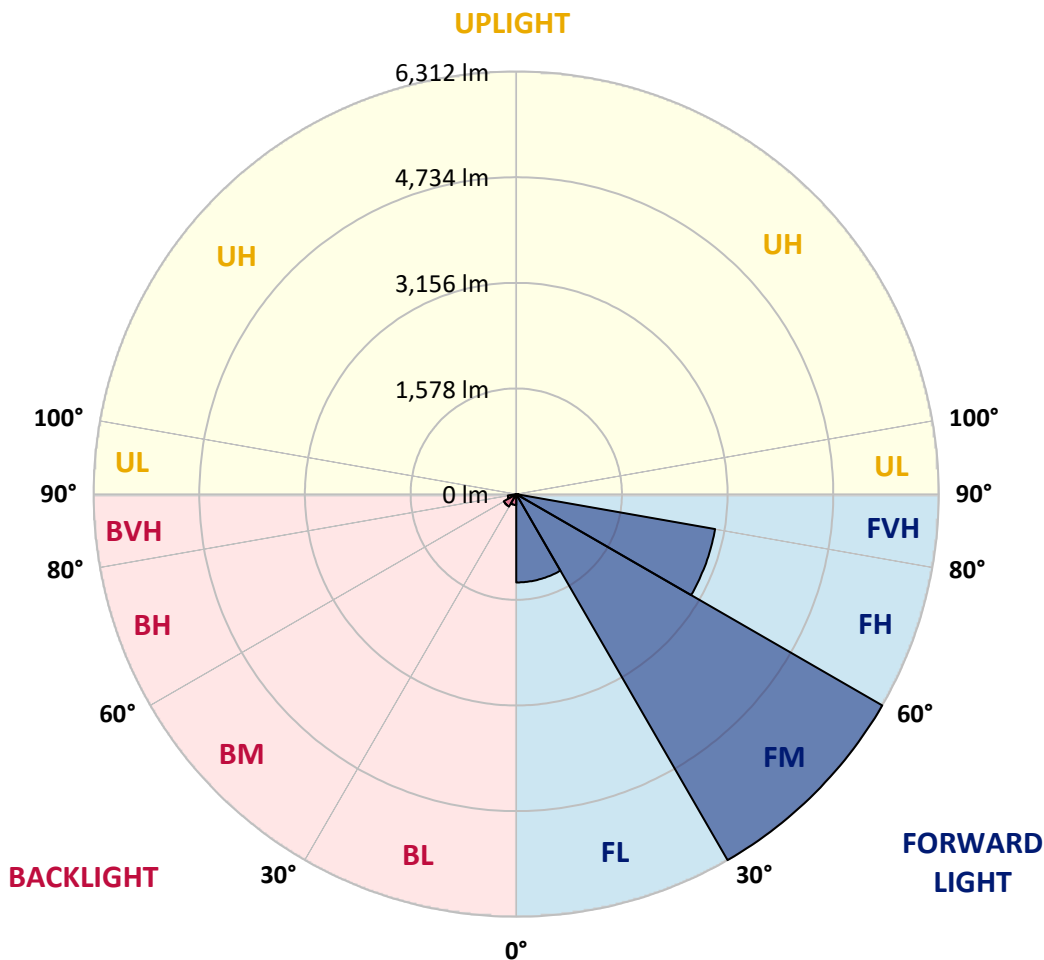


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1319.2	11.8			
FM (30°-60°)	6312.5	56.4			
FH (60°-80°)	3016.1	27.0			G2/5000
FVH (80°-90°)	32.9	0.3			G1/100
BL (0°-30°)	162.1	1.4	B1/500		
BM (30°-60°)	214.4	1.9	B0/220		
BH (60°-80°)	128.1	1.1	B1/500		G1/500
BVH (80°-90°)	2.8	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°	1071.3	1071.3	1071.3	1071.3	1071.3	1071.3	1071.3	1071.3	1071.3	1071.3	1071.3
2.5°	1627.7	1596.9	1564.5	1555.3	1495.2	1427.3	1364.1	1302.5	1199.2	1200.7	1129.8
5°	2097.8	2059.3	2033.1	2026.9	1932.9	1815.8	1720.2	1546.0	1374.9	1336.4	1206.9
7.5°	2484.7	2472.4	2433.9	2401.5	2332.1	2188.8	2076.3	1826.6	1566.1	1522.9	1300.9
10°	2719.0	2737.5	2754.5	2712.9	2658.9	2555.6	2401.5	2131.8	1783.4	1729.4	1422.7
12.5°	2968.7	2937.9	2948.7	2982.6	2911.7	2888.6	2697.4	2446.2	2037.7	1934.5	1576.8
15°	3033.5	3045.8	3072.0	3170.7	3218.4	3152.2	2987.2	2700.5	2301.3	2158.0	1720.2
17.5°	3076.6	3070.5	3102.8	3250.8	3323.2	3386.4	3283.2	2984.1	2531.0	2403.0	1899.0
20°	3130.6	3096.7	3167.6	3261.6	3429.6	3562.2	3557.5	3269.3	2771.4	2635.8	2076.3
22.5°	3331.0	3304.8	3361.8	3371.0	3488.2	3673.1	3717.8	3502.1	3018.1	2851.6	2267.4
25°	3700.9	3748.7	3680.9	3622.3	3657.7	3779.5	3811.9	3708.6	3266.2	3113.6	2458.5
27.5°	4241.9	4235.8	4101.7	4026.1	3941.3	3925.9	3949.1	3901.3	3462.0	3352.5	2615.7
30°	4823.0	4772.2	4648.8	4467.0	4280.5	4164.9	4132.5	4083.2	3691.6	3532.9	2771.4
32.5°	5285.4	5313.2	5176.0	4938.6	4628.8	4473.1	4317.4	4263.5	3944.4	3804.2	2950.2
35°	5710.9	5673.9	5564.4	5364.1	5086.6	4835.4	4591.8	4476.2	4248.1	4109.4	3147.5
37.5°	6025.3	6071.6	5863.5	5672.3	5396.4	5188.3	4949.4	4696.6	4561.0	4376.0	3388.0
40°	6322.8	6250.4	6110.1	5934.4	5678.5	5519.7	5362.5	4967.9	4893.9	4655.0	3659.3
42.5°	6270.4	6275.0	6198.0	6056.1	5871.2	5780.2	5726.3	5297.8	5196.0	5043.4	3924.4
45°	6056.1	6074.6	6100.8	6031.5	6046.9	5956.0	6100.8	5677.0	5576.8	5414.9	4229.6
47.5°	5820.3	5851.1	5845.0	5971.4	6114.7	6145.5	6507.8	6097.8	6054.6	5965.2	4651.9
50°	5428.8	5441.1	5559.8	5789.5	5985.2	6307.4	6813.0	6557.1	6623.4	6447.7	5154.4
52.5°	4759.8	4804.5	5109.7	5438.0	5832.6	6389.1	7019.5	7239.9	7407.9	7227.6	5636.9
55°	3913.6	3975.3	4275.8	4890.8	5468.9	6265.8	7207.6	7600.6	7941.3	7668.4	5929.7
57.5°	3149.1	3155.2	3425.0	4060.0	4952.5	6023.8	7303.1	7776.3	8234.1	8015.3	6287.4
60°	2400.0	2375.3	2617.3	3167.6	4083.2	5428.8	7064.2	7865.7	8599.4	8473.1	6717.4
62.5°	1544.5	1505.9	1769.5	2305.9	3189.1	4437.7	6586.4	7867.3	9169.8	9122.0	7437.2
65°	764.5	738.3	964.9	1413.5	2207.3	3394.2	5905.1	7838.0	9866.5	9897.3	8138.6
67.5°	403.8	413.1	485.5	716.7	1273.2	2398.4	4878.5	7494.3	10222.5	10395.2	8308.1
68°	371.5	374.6	431.6	596.5	1105.2	2224.2	4635.0	7394.1	10250.3	10463.0	8214.1
70°	302.1	306.7	326.8	374.6	598.1	1447.4	3576.0	6543.2	9832.6	10026.8	7435.7
72.5°	240.5	254.3	266.7	286.7	351.4	759.9	2224.2	5098.9	8123.2	8144.7	5787.9
75°	183.4	194.2	218.9	235.8	274.4	417.7	1058.9	3109.0	5330.1	5068.1	3409.6
77.5°	141.8	151.1	161.8	185.0	229.7	282.1	323.7	1319.4	2264.3	1863.5	963.4
80°	84.8	90.9	126.4	144.9	200.4	191.1	127.9	366.9	459.3	362.2	175.7
82.5°	49.3	53.9	72.4	111.0	140.3	103.3	75.5	114.1	112.5	98.6	58.6
85°	1.5	3.1	40.1	66.3	49.3	27.7	46.2	47.8	40.1	37.0	26.2
87.5°	0.0	1.5	10.8	9.2	10.8	6.2	9.2	12.3	15.4	13.9	10.8
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°	1071.3	1071.3	1071.3	1071.3	1071.3	1071.3	1071.3	1071.3	1071.3	1071.3	1071.3
2.5°	1082.1	1048.1	972.6	915.6	853.9	816.9	779.9	756.8	744.5	736.8	743.0
5°	1109.8	1038.9	917.1	809.2	738.3	690.5	642.8	618.1	595.0	582.6	590.4
7.5°	1171.5	1065.1	863.2	746.0	662.8	588.8	528.7	480.9	453.2	428.5	433.1
10°	1247.0	1080.5	864.7	709.0	588.8	471.7	386.9	326.8	292.9	271.3	269.7
12.5°	1324.1	1140.6	870.9	672.0	497.9	354.5	254.3	209.6	189.6	178.8	178.8
15°	1441.2	1194.6	855.5	604.2	377.6	231.2	174.2	158.8	151.1	141.8	143.3
17.5°	1542.9	1280.9	847.8	502.5	259.0	166.5	144.9	127.9	120.2	111.0	111.0
20°	1680.1	1334.8	806.1	388.4	178.8	138.7	117.1	101.7	89.4	81.7	83.2
22.5°	1805.0	1376.5	732.2	265.1	137.2	109.4	86.3	70.9	60.1	50.9	52.4
25°	1940.6	1418.1	624.3	163.4	97.1	67.8	46.2	33.9	23.1	17.0	17.0
27.5°	2037.7	1430.4	484.0	97.1	58.6	30.8	10.8	1.5	0.0	0.0	0.0
30°	2136.4	1435.0	334.5	52.4	23.1	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	2248.9	1433.5	209.6	27.7	1.5	0.0	0.0	0.0	0.0	0.0	0.0
35°	2335.2	1407.3	100.2	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	2466.2	1368.8	30.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	2615.7	1299.4	6.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	2749.8	1228.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	2902.4	1140.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	3170.7	1103.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	3520.5	1074.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	3736.3	988.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	3848.9	898.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	4015.3	855.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	4262.0	858.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	4647.3	901.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	4860.0	858.6	6.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	4679.7	687.5	29.3	7.7	1.5	0.0	0.0	0.0	0.0	0.0	0.0
68°	4524.0	632.0	29.3	7.7	1.5	0.0	0.0	0.0	0.0	0.0	0.0
70°	3739.4	411.6	27.7	7.7	3.1	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	2723.6	228.1	23.1	6.2	3.1	0.0	0.0	0.0	0.0	0.0	0.0
75°	1584.6	114.1	17.0	6.2	3.1	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	413.1	57.0	13.9	7.7	4.6	1.5	0.0	0.0	0.0	0.0	0.0
80°	81.7	37.0	12.3	9.2	6.2	3.1	0.0	0.0	0.0	0.0	0.0
82.5°	38.5	26.2	12.3	9.2	7.7	4.6	1.5	0.0	0.0	0.0	0.0
85°	20.0	12.3	12.3	9.2	9.2	6.2	3.1	0.0	0.0	0.0	0.0
87.5°	9.2	4.6	4.6	4.6	4.6	3.1	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)