

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: P481978

Luminaire Tested: **IFLD-S-SA3A-730-U-T2R-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P481978  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3A-730-U-T2R-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens with House Side Shield  
Light Source: (48) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

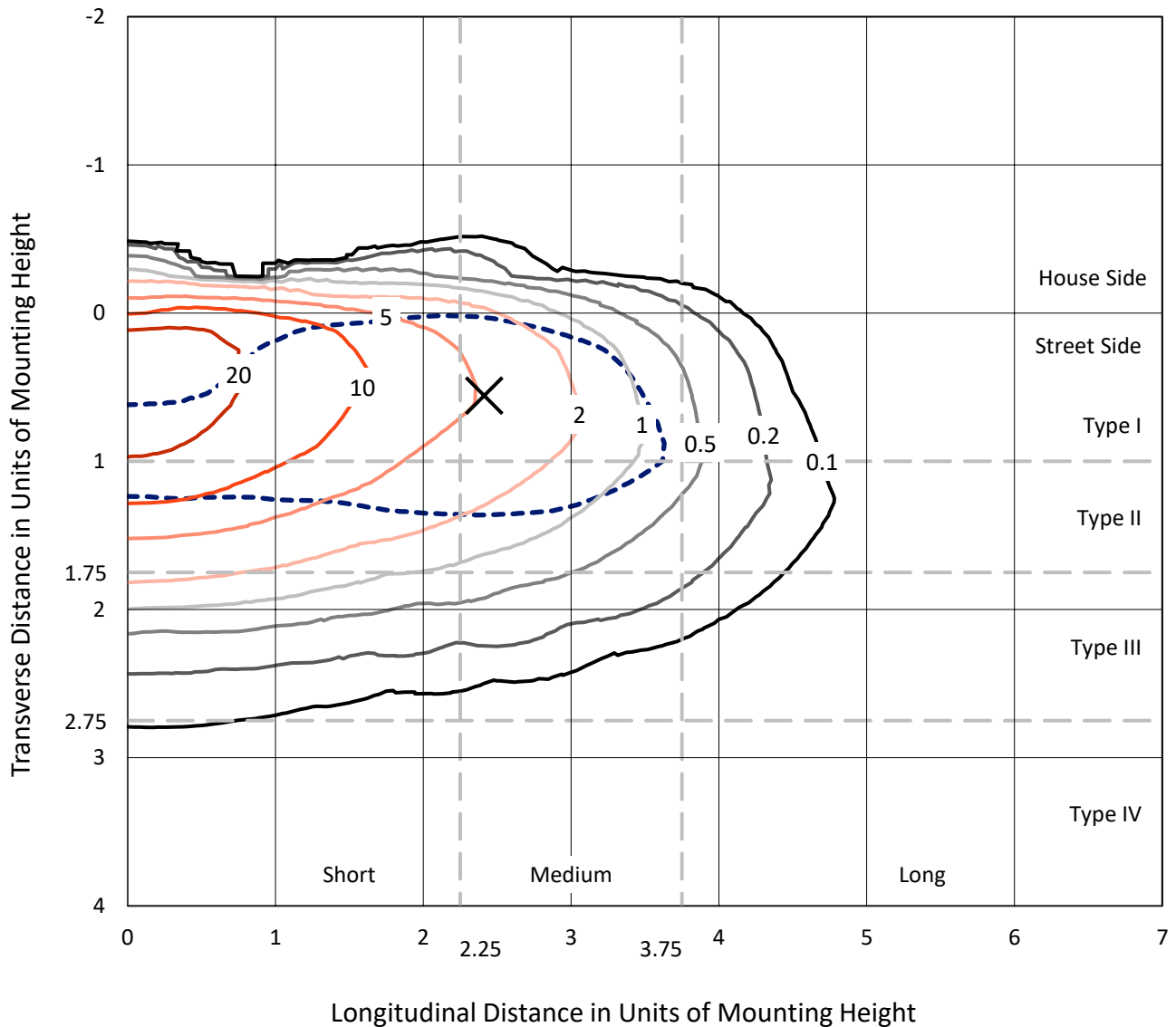
Lumens per Lamp: N/A  
Luminaire Lumens: 9850 lumens  
Efficiency: N/A  
Efficacy: 103.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G2

Input Watts (W): 94.8  
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

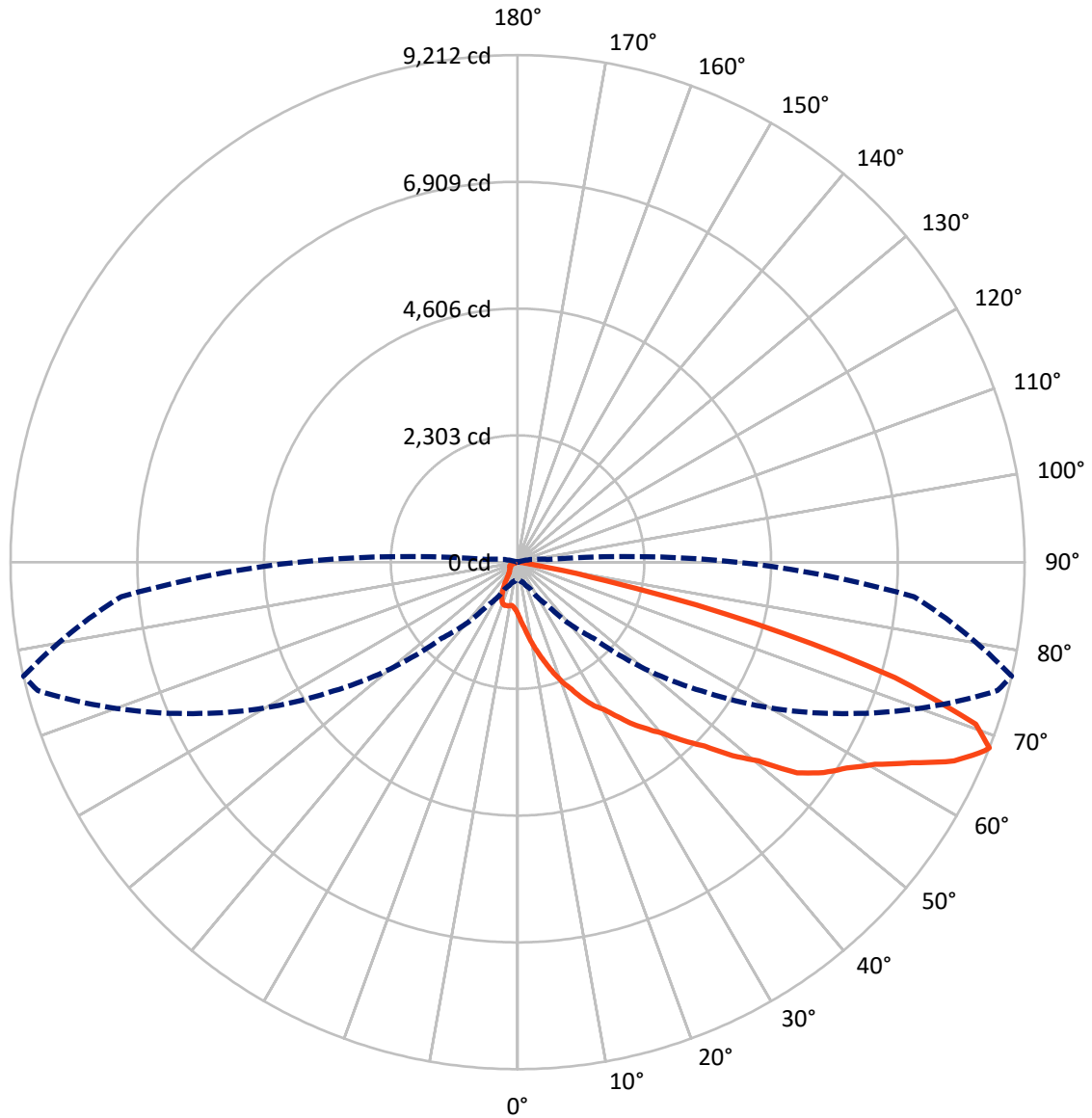
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 27.9 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	446.7	0.0	446.7
	% Fixture	4.5	0.0	4.5
<b>Street Side</b>	Lumens	9403.3	0.0	9403.3
	% Fixture	95.5	0.0	95.5
<b>Total</b>	Lumens	9850.0	0.0	9850.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	110.2	1.1
10°-20°	406.4	4.1
20°-30°	787.6	8.0
30°-40°	1373.0	13.9
40°-50°	2010.9	20.4
50°-60°	2362.5	24.0
60°-70°	1994.9	20.3
70°-80°	773.3	7.9
80°-90°	31.4	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°	9850.0	100.0
0°-180°	9850.0	100.0

**Coefficient of Utilization**

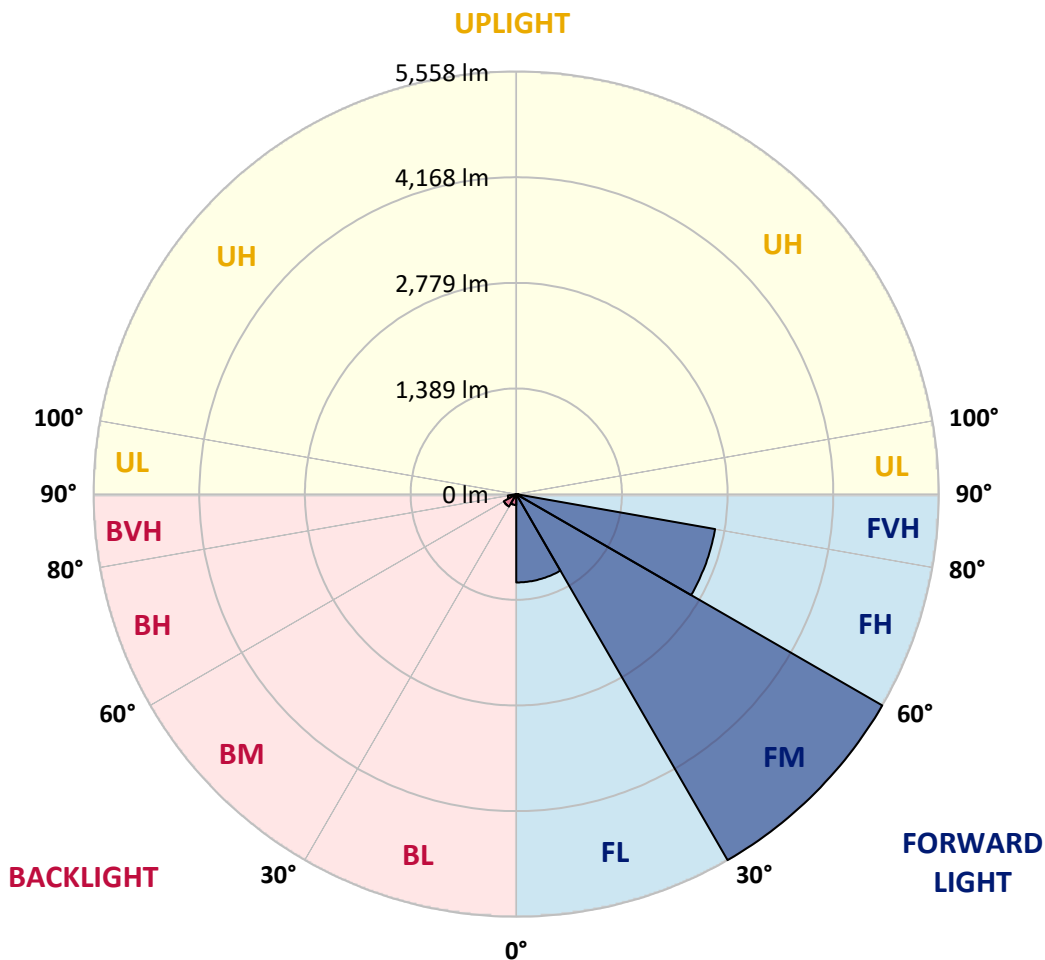


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1161.4	11.8			
FM	(30°-60°)	5557.6	56.4			
FH	(60°-80°)	2655.4	27.0			G2/5000
FVH	(80°-90°)	29.0	0.3			G1/100
BL	(0°-30°)	142.7	1.4	B1/500		
BM	(30°-60°)	188.8	1.9	B0/220		
BH	(60°-80°)	112.8	1.1	B1/500		G1/500
BVH	(80°-90°)	2.4	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°	943.2	943.2	943.2	943.2	943.2	943.2	943.2	943.2	943.2	943.2	943.2
2.5°	1433.1	1405.9	1377.4	1369.3	1316.3	1256.6	1201.0	1146.7	1055.8	1057.1	994.7
5°	1847.0	1813.0	1790.0	1784.5	1701.7	1598.6	1514.5	1361.1	1210.5	1176.6	1062.6
7.5°	2187.6	2176.7	2142.8	2114.3	2053.2	1927.0	1828.0	1608.1	1378.8	1340.8	1145.4
10°	2393.8	2410.1	2425.1	2388.4	2340.9	2250.0	2114.3	1876.8	1570.1	1522.6	1252.6
12.5°	2613.7	2586.5	2596.0	2625.9	2563.5	2543.1	2374.8	2153.6	1794.0	1703.1	1388.3
15°	2670.7	2681.5	2704.6	2791.5	2833.5	2775.2	2630.0	2377.6	2026.1	1899.9	1514.5
17.5°	2708.7	2703.3	2731.8	2862.0	2925.8	2981.5	2890.5	2627.3	2228.3	2115.6	1671.9
20°	2756.2	2726.3	2788.7	2871.5	3019.4	3136.2	3132.1	2878.3	2440.0	2320.6	1828.0
22.5°	2932.6	2909.5	2959.7	2967.9	3071.0	3233.9	3273.2	3083.2	2657.1	2510.6	1996.2
25°	3258.3	3300.4	3240.6	3189.1	3220.3	3327.5	3356.0	3265.1	2875.6	2741.3	2164.5
27.5°	3734.6	3729.2	3611.1	3544.6	3470.0	3456.4	3476.8	3434.7	3047.9	2951.6	2302.9
30°	4246.2	4201.4	4092.9	3932.7	3768.5	3666.8	3638.3	3594.8	3250.1	3110.4	2440.0
32.5°	4653.3	4677.8	4557.0	4348.0	4075.2	3938.2	3801.1	3753.6	3472.7	3349.2	2597.4
35°	5027.9	4995.3	4899.0	4722.6	4478.3	4257.1	4042.7	3940.9	3740.0	3617.9	2771.1
37.5°	5304.7	5345.4	5162.2	4994.0	4751.1	4567.8	4357.5	4134.9	4015.5	3852.7	2982.8
40°	5566.6	5502.9	5379.4	5224.7	4999.4	4859.6	4721.2	4373.8	4308.7	4098.3	3221.6
42.5°	5520.5	5524.6	5456.7	5331.9	5169.0	5089.0	5041.5	4664.2	4574.6	4440.3	3455.1
45°	5331.9	5348.2	5371.2	5310.2	5323.7	5243.7	5371.2	4998.0	4909.8	4767.3	3723.8
47.5°	5124.2	5151.4	5146.0	5257.2	5383.4	5410.6	5729.5	5368.5	5330.5	5251.8	4095.6
50°	4779.5	4790.4	4894.9	5097.1	5269.4	5553.1	5998.2	5772.9	5831.3	5676.6	4538.0
52.5°	4190.6	4229.9	4498.6	4787.7	5135.1	5625.0	6180.0	6374.1	6522.0	6363.2	4962.8
55°	3445.6	3499.8	3764.5	4305.9	4814.8	5516.4	6345.6	6691.6	6991.5	6751.4	5220.6
57.5°	2772.5	2777.9	3015.4	3574.5	4360.2	5303.4	6429.7	6846.3	7249.4	7056.7	5535.4
60°	2112.9	2091.2	2304.3	2788.7	3594.8	4779.5	6219.4	6925.1	7571.0	7459.7	5914.0
62.5°	1359.8	1325.8	1557.9	2030.2	2807.7	3907.0	5798.7	6926.4	8073.1	8031.1	6547.8
65°	673.1	650.0	849.5	1244.4	1943.3	2988.2	5198.9	6900.6	8686.5	8713.7	7165.3
67.5°	355.5	363.7	427.5	631.0	1120.9	2111.6	4295.1	6598.0	9000.0	9152.0	7314.5
68°	327.1	329.8	380.0	525.2	973.0	1958.2	4080.7	6509.8	9024.4	9211.7	7231.7
70°	266.0	270.1	287.7	329.8	526.5	1274.3	3148.4	5760.7	8656.7	8827.6	6546.4
72.5°	211.7	223.9	234.8	252.4	309.4	669.0	1958.2	4489.1	7151.7	7170.7	5095.7
75°	161.5	171.0	192.7	207.6	241.6	367.8	932.3	2737.2	4692.7	4462.0	3001.8
77.5°	124.8	133.0	142.5	162.8	202.2	248.3	285.0	1161.6	1993.5	1640.7	848.2
80°	74.6	80.1	111.3	127.6	176.4	168.3	112.6	323.0	404.4	318.9	154.7
82.5°	43.4	47.5	63.8	97.7	123.5	90.9	66.5	100.4	99.1	86.9	51.6
85°	1.4	2.7	35.3	58.4	43.4	24.4	40.7	42.1	35.3	32.6	23.1
87.5°	0.0	1.4	9.5	8.1	9.5	5.4	8.1	10.9	13.6	12.2	9.5
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°	943.2	943.2	943.2	943.2	943.2	943.2	943.2	943.2	943.2	943.2	943.2
2.5°	952.7	922.8	856.3	806.1	751.8	719.2	686.7	666.3	655.5	648.7	654.1
5°	977.1	914.7	807.4	712.5	650.0	608.0	565.9	544.2	523.8	513.0	519.8
7.5°	1031.4	937.7	760.0	656.8	583.5	518.4	465.5	423.4	399.0	377.3	381.3
10°	1097.9	951.3	761.3	624.2	518.4	415.3	340.6	287.7	257.8	238.8	237.5
12.5°	1165.7	1004.2	766.7	591.7	438.3	312.1	223.9	184.6	166.9	157.4	157.4
15°	1268.8	1051.7	753.2	532.0	332.5	203.6	153.3	139.8	133.0	124.8	126.2
17.5°	1358.4	1127.7	746.4	442.4	228.0	146.6	127.6	112.6	105.9	97.7	97.7
20°	1479.2	1175.2	709.7	342.0	157.4	122.1	103.1	89.6	78.7	71.9	73.3
22.5°	1589.1	1211.9	644.6	233.4	120.8	96.4	76.0	62.4	52.9	44.8	46.1
25°	1708.5	1248.5	549.6	143.8	85.5	59.7	40.7	29.9	20.4	14.9	14.9
27.5°	1794.0	1259.3	426.1	85.5	51.6	27.1	9.5	1.4	0.0	0.0	0.0
30°	1880.9	1263.4	294.5	46.1	20.4	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	1979.9	1262.1	184.6	24.4	1.4	0.0	0.0	0.0	0.0	0.0	0.0
35°	2055.9	1239.0	88.2	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	2171.3	1205.1	27.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	2302.9	1144.0	5.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	2421.0	1081.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	2555.3	1004.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	2791.5	971.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	3099.5	945.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	3289.5	869.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	3388.6	791.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	3535.1	753.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	3752.3	755.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	4091.5	793.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	4278.8	755.9	5.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	4120.0	605.2	25.8	6.8	1.4	0.0	0.0	0.0	0.0	0.0	0.0
68°	3983.0	556.4	25.8	6.8	1.4	0.0	0.0	0.0	0.0	0.0	0.0
70°	3292.2	362.3	24.4	6.8	2.7	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	2397.9	200.8	20.4	5.4	2.7	0.0	0.0	0.0	0.0	0.0	0.0
75°	1395.1	100.4	14.9	5.4	2.7	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	363.7	50.2	12.2	6.8	4.1	1.4	0.0	0.0	0.0	0.0	0.0
80°	71.9	32.6	10.9	8.1	5.4	2.7	0.0	0.0	0.0	0.0	0.0
82.5°	33.9	23.1	10.9	8.1	6.8	4.1	1.4	0.0	0.0	0.0	0.0
85°	17.6	10.9	10.9	8.1	8.1	5.4	2.7	0.0	0.0	0.0	0.0
87.5°	8.1	4.1	4.1	4.1	4.1	2.7	1.4	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)