

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: P482012

Luminaire Tested: **IFLD-S-SA2A-735-U-T2R-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P482012  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2A-735-U-T2R-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens with House Side Shield  
Light Source: (32) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

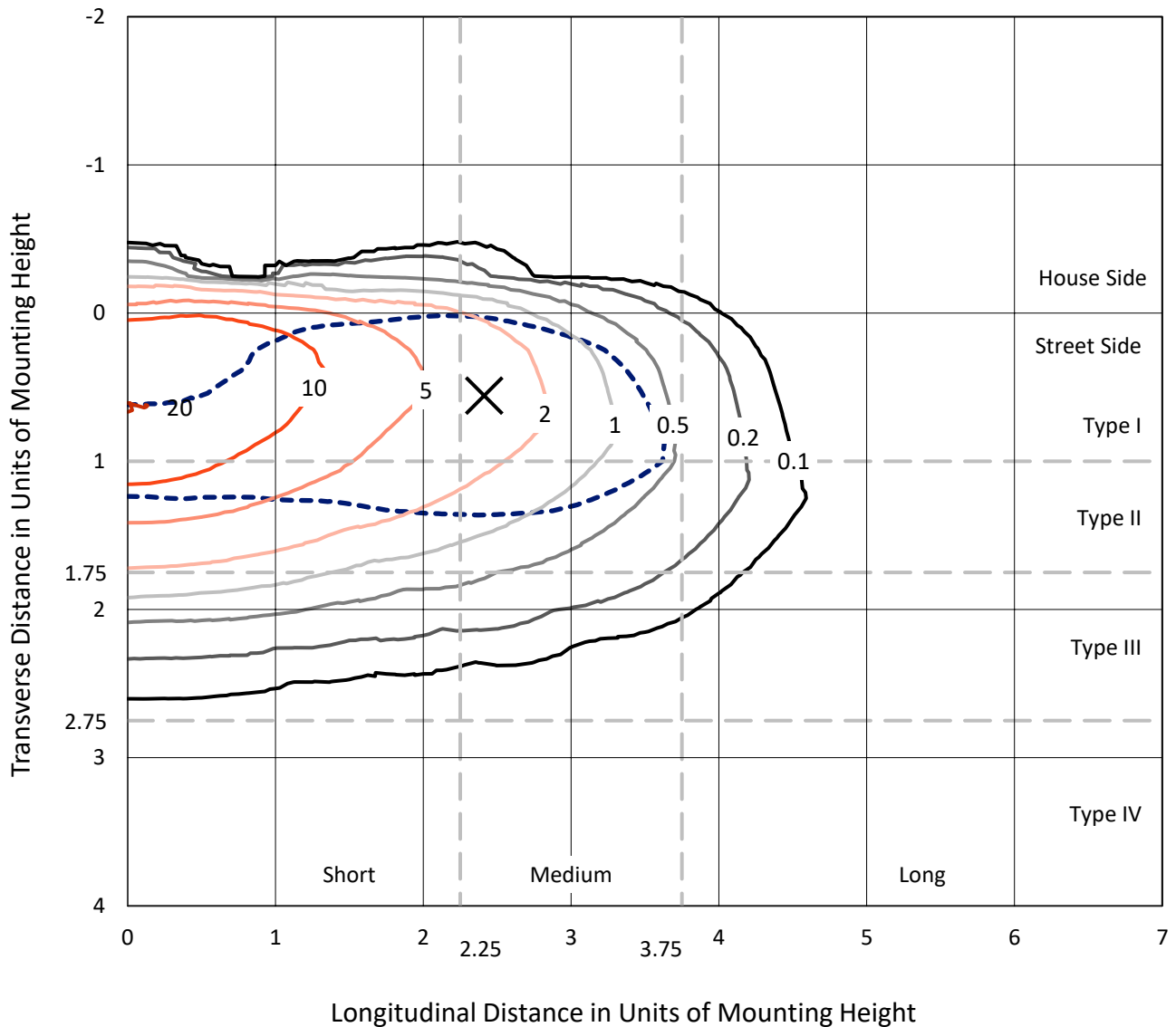
Lumens per Lamp: N/A  
Luminaire Lumens: 7159 lumens  
Efficiency: N/A  
Efficacy: 112.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B0 - U0 - G2

Input Watts (W): 63.8  
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

REPORT NUMBER: P482012  
 CATALOG NUMBER: IFLD-S-SA2A-735-U-T2R-HSS

### Iso-Footcandle Lines of Horizontal Illumination

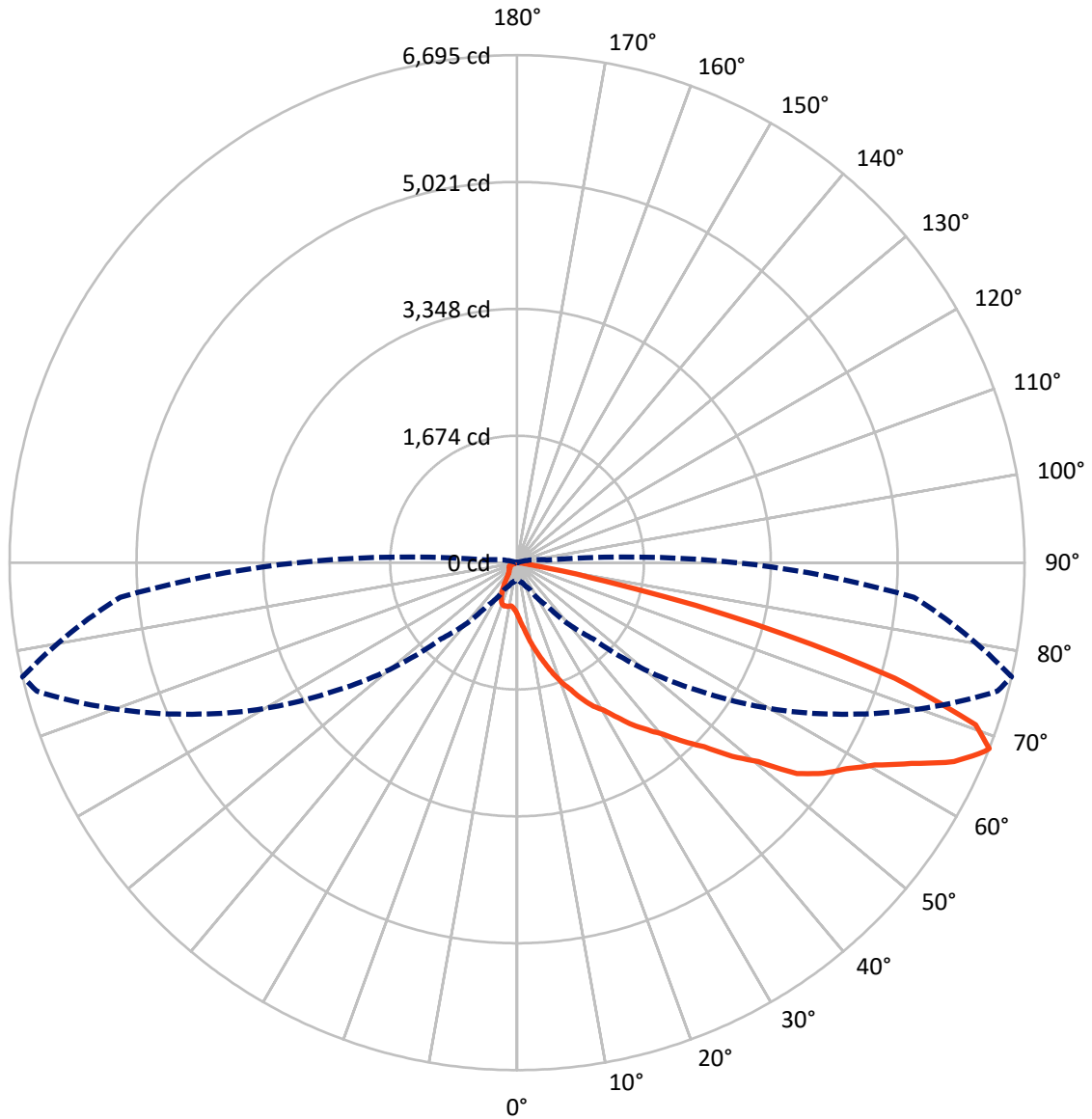
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 20.3 fc  
 Type II - Medium - N/A

REPORT NUMBER: P482012  
CATALOG NUMBER: IFLD-S-SA2A-735-U-T2R-HSS

### 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	324.7	0.0	324.7
	% Fixture	4.5	0.0	4.5
<b>Street Side</b>	Lumens	6834.4	0.0	6834.4
	% Fixture	95.5	0.0	95.5
<b>Total</b>	Lumens	7159.0	0.0	7159.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	80.1	1.1
10°-20°	295.4	4.1
20°-30°	572.4	8.0
30°-40°	997.9	13.9
40°-50°	1461.5	20.4
50°-60°	1717.0	24.0
60°-70°	1449.9	20.3
70°-80°	562.0	7.9
80°-90°	22.9	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°	7159.0	100.0
0°-180°	7159.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P482012

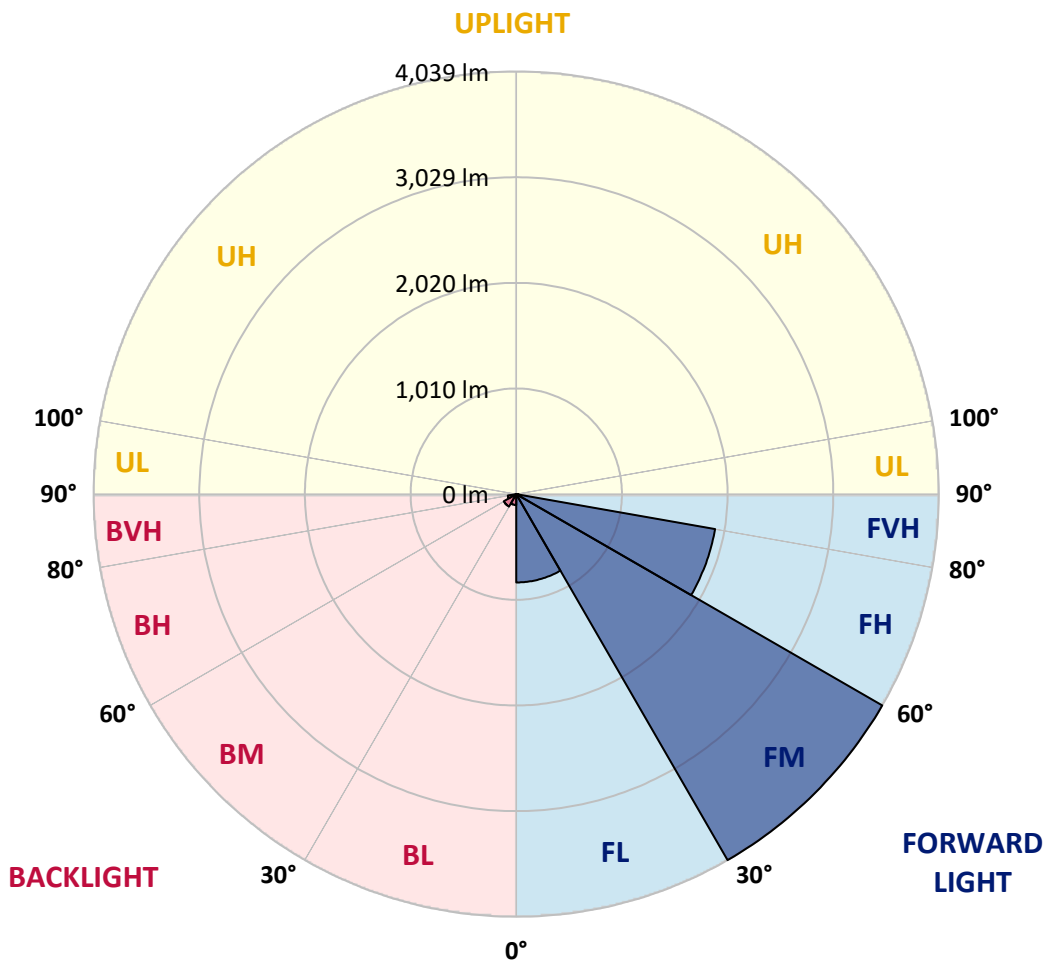
CATALOG NUMBER: IFLD-S-SA2A-735-U-T2R-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	844.1	11.8			
FM (30°-60°)	4039.2	56.4			
FH (60°-80°)	1929.9	27.0			G2/5000
FVH (80°-90°)	21.1	0.3			G1/100
BL (0°-30°)	103.7	1.4	B0/110		
BM (30°-60°)	137.2	1.9	B0/220		
BH (60°-80°)	82.0	1.1	B0/110		G0/110
BVH (80°-90°)	1.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B0-U0-G2**

Type II Medium





REPORT NUMBER: P482012

CATALOG NUMBER: IFLD-S-SA2A-735-U-T2R-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	685.5	685.5	685.5	685.5	685.5	685.5	685.5	685.5	685.5	685.5	685.5
2.5°	1041.5	1021.8	1001.1	995.2	956.7	913.3	872.9	833.4	767.3	768.3	723.0
5°	1342.4	1317.7	1300.9	1297.0	1236.8	1161.9	1100.7	989.3	879.8	855.1	772.3
7.5°	1589.9	1582.0	1557.4	1536.7	1492.3	1400.6	1328.6	1168.8	1002.1	974.5	832.4
10°	1739.8	1751.7	1762.5	1735.9	1701.4	1635.3	1536.7	1364.1	1141.2	1106.6	910.4
12.5°	1899.6	1879.9	1886.8	1908.5	1863.1	1848.3	1726.0	1565.3	1303.9	1237.8	1009.0
15°	1941.1	1948.9	1965.7	2028.8	2059.4	2017.0	1911.5	1728.0	1472.6	1380.8	1100.7
17.5°	1968.7	1964.7	1985.4	2080.1	2126.5	2166.9	2100.8	1909.5	1619.5	1537.7	1215.1
20°	2003.2	1981.5	2026.9	2087.0	2194.5	2279.4	2276.4	2092.0	1773.4	1686.6	1328.6
22.5°	2131.4	2114.6	2151.1	2157.1	2232.0	2350.4	2379.0	2240.9	1931.2	1824.7	1450.9
25°	2368.1	2398.7	2355.3	2317.8	2340.5	2418.4	2439.1	2373.1	2090.0	1992.3	1573.2
27.5°	2714.3	2710.4	2624.6	2576.2	2522.0	2512.1	2526.9	2496.3	2215.3	2145.2	1673.8
30°	3086.2	3053.6	2974.7	2858.3	2739.0	2665.0	2644.3	2612.7	2362.2	2260.6	1773.4
32.5°	3382.1	3399.8	3312.0	3160.1	2961.9	2862.3	2762.7	2728.1	2524.0	2434.2	1887.8
35°	3654.3	3630.6	3560.6	3432.4	3254.8	3094.1	2938.2	2864.2	2718.3	2629.5	2014.0
37.5°	3855.5	3885.1	3751.9	3629.6	3453.1	3319.9	3167.0	3005.3	2918.5	2800.1	2167.9
40°	4045.8	3999.5	3909.7	3797.3	3633.6	3532.0	3431.4	3178.9	3131.5	2978.7	2341.5
42.5°	4012.3	4015.3	3966.0	3875.2	3756.9	3698.7	3664.1	3389.9	3324.8	3227.2	2511.1
45°	3875.2	3887.0	3903.8	3859.4	3869.3	3811.1	3903.8	3632.6	3568.5	3464.9	2706.4
47.5°	3724.3	3744.0	3740.1	3821.0	3912.7	3932.4	4164.2	3901.8	3874.2	3817.0	2976.7
50°	3473.8	3481.7	3557.6	3704.6	3829.8	4036.0	4359.5	4195.8	4238.2	4125.7	3298.2
52.5°	3045.7	3074.3	3269.6	3479.7	3732.2	4088.3	4491.7	4632.7	4740.2	4624.8	3606.9
55°	2504.2	2543.7	2736.0	3129.6	3499.4	4009.3	4612.0	4863.5	5081.5	4906.9	3794.3
57.5°	2015.0	2019.0	2191.6	2597.9	3169.0	3854.5	4673.1	4975.9	5268.9	5128.8	4023.2
60°	1535.7	1519.9	1674.8	2026.9	2612.7	3473.8	4520.3	5033.1	5502.6	5421.7	4298.3
62.5°	988.3	963.6	1132.3	1475.5	2040.7	2839.6	4214.5	5034.1	5867.6	5837.0	4758.9
65°	489.2	472.4	617.4	904.4	1412.4	2171.9	3778.6	5015.4	6313.4	6333.1	5207.7
67.5°	258.4	264.3	310.7	458.6	814.7	1534.7	3121.7	4795.4	6541.2	6651.7	5316.2
68°	237.7	239.7	276.2	381.7	707.2	1423.2	2965.8	4731.3	6559.0	6695.1	5256.0
70°	193.3	196.3	209.1	239.7	382.7	926.1	2288.2	4186.9	6291.7	6415.9	4758.0
72.5°	153.9	162.7	170.6	183.5	224.9	486.3	1423.2	3262.7	5197.9	5211.7	3703.6
75°	117.4	124.3	140.1	150.9	175.6	267.3	677.6	1989.4	3410.7	3243.0	2181.7
77.5°	90.7	96.7	103.6	118.4	147.0	180.5	207.1	844.3	1448.9	1192.4	616.4
80°	54.2	58.2	80.9	92.7	128.2	122.3	81.9	234.7	293.9	231.8	112.4
82.5°	31.6	34.5	46.4	71.0	89.8	66.1	48.3	73.0	72.0	63.1	37.5
85°	1.0	2.0	25.6	42.4	31.6	17.8	29.6	30.6	25.6	23.7	16.8
87.5°	0.0	1.0	6.9	5.9	6.9	3.9	5.9	7.9	9.9	8.9	6.9
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°	685.5	685.5	685.5	685.5	685.5	685.5	685.5	685.5	685.5	685.5	685.5
2.5°	692.4	670.7	622.4	585.9	546.4	522.7	499.1	484.3	476.4	471.5	475.4
5°	710.1	664.8	586.9	517.8	472.4	441.9	411.3	395.5	380.7	372.8	377.8
7.5°	749.6	681.5	552.3	477.4	424.1	376.8	338.3	307.7	290.0	274.2	277.2
10°	797.9	691.4	553.3	453.7	376.8	301.8	247.6	209.1	187.4	173.6	172.6
12.5°	847.2	729.9	557.3	430.0	318.6	226.9	162.7	134.1	121.3	114.4	114.4
15°	922.2	764.4	547.4	386.6	241.6	147.9	111.5	101.6	96.7	90.7	91.7
17.5°	987.3	819.6	542.5	321.5	165.7	106.5	92.7	81.9	76.9	71.0	71.0
20°	1075.1	854.1	515.8	248.5	114.4	88.8	75.0	65.1	57.2	52.3	53.3
22.5°	1155.0	880.8	468.5	169.6	87.8	70.0	55.2	45.4	38.5	32.5	33.5
25°	1241.8	907.4	399.5	104.5	62.1	43.4	29.6	21.7	14.8	10.8	10.8
27.5°	1303.9	915.3	309.7	62.1	37.5	19.7	6.9	1.0	0.0	0.0	0.0
30°	1367.0	918.3	214.0	33.5	14.8	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	1439.0	917.3	134.1	17.8	1.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	1494.3	900.5	64.1	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	1578.1	875.8	19.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	1673.8	831.5	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	1759.6	786.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	1857.2	729.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	2028.8	706.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	2252.7	687.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	2390.8	632.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	2462.8	575.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	2569.3	547.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	2727.1	549.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	2973.7	577.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	3109.8	549.4	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	2994.4	439.9	18.7	4.9	1.0	0.0	0.0	0.0	0.0	0.0	0.0
68°	2894.8	404.4	18.7	4.9	1.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	2392.8	263.3	17.8	4.9	2.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	1742.8	146.0	14.8	3.9	2.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	1013.9	73.0	10.8	3.9	2.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	264.3	36.5	8.9	4.9	3.0	1.0	0.0	0.0	0.0	0.0	0.0
80°	52.3	23.7	7.9	5.9	3.9	2.0	0.0	0.0	0.0	0.0	0.0
82.5°	24.7	16.8	7.9	5.9	4.9	3.0	1.0	0.0	0.0	0.0	0.0
85°	12.8	7.9	7.9	5.9	5.9	3.9	2.0	0.0	0.0	0.0	0.0
87.5°	5.9	3.0	3.0	3.0	3.0	2.0	1.0	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)