

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: P482037

Luminaire Tested: **IFLD-M-SA4A-735-U-T2R-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P482037  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4A-735-U-T2R-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens with House Side Shield  
Light Source: (64) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

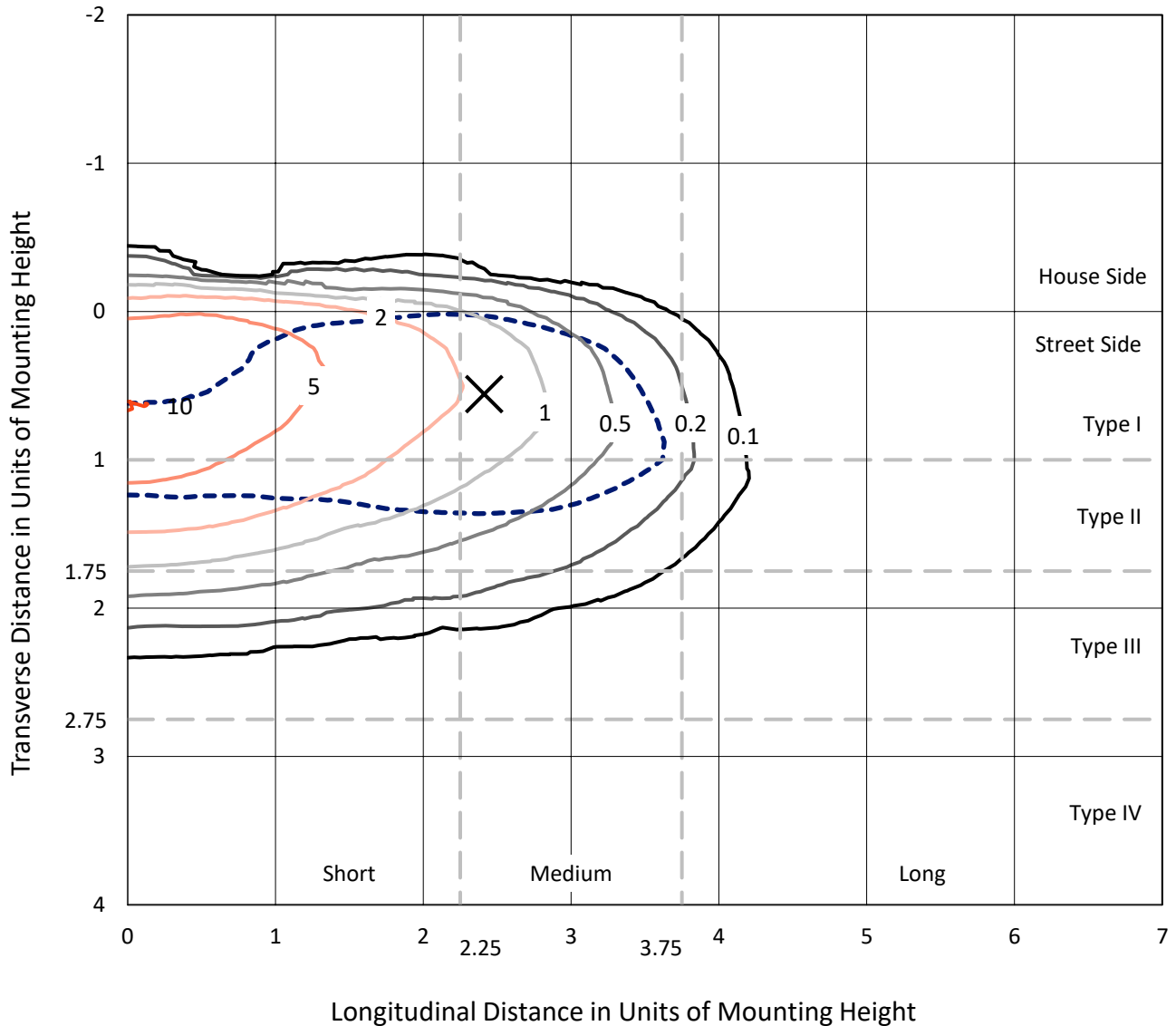
Lumens per Lamp: N/A  
Luminaire Lumens: 14320.3 lumens  
Efficiency: N/A  
Efficacy: 111.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G2

Input Watts (W): 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

REPORT NUMBER: P482037  
 CATALOG NUMBER: IFLD-M-SA4A-735-U-T2R-HSS

### Iso-Footcandle Lines of Horizontal Illumination

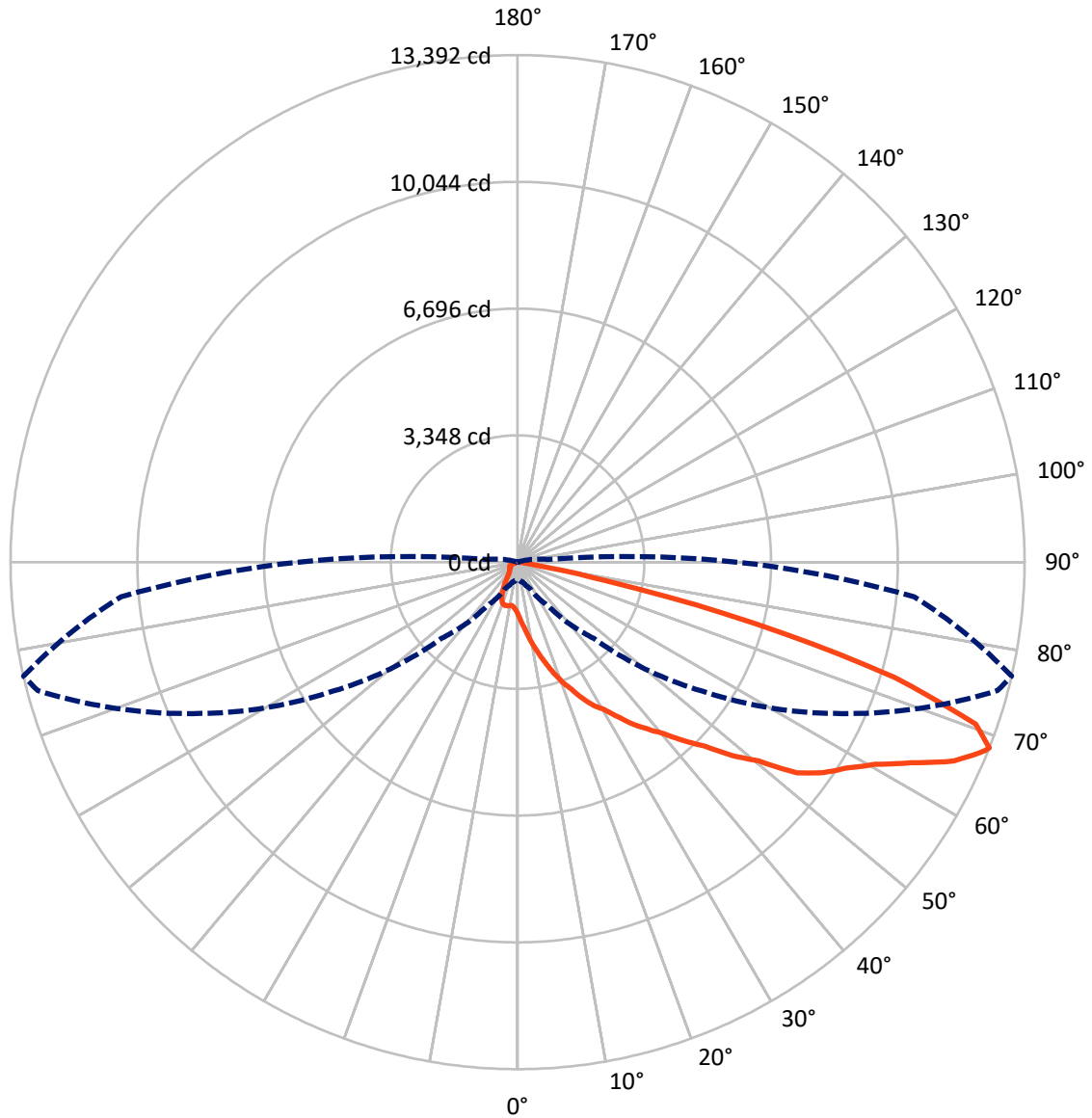
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 10.1 fc  
 Type II - Medium - N/A

REPORT NUMBER: P482037  
CATALOG NUMBER: IFLD-M-SA4A-735-U-T2R-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral      - - - Horizontal Cone Through 68-Deg Vertical

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 CATALOG NUMBER: IFLD-M-SA4A-735-U-T2R-HSS

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	649.4	0.0	649.4
	% Fixture	4.5	0.0	4.5
<b>Street Side</b>	Lumens	13670.9	0.0	13670.9
	% Fixture	95.5	0.0	95.5
<b>Total</b>	Lumens	14320.3	0.0	14320.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	160.2	1.1
10°-20°	590.8	4.1
20°-30°	1145.0	8.0
30°-40°	1996.1	13.9
40°-50°	2923.5	20.4
50°-60°	3434.6	24.0
60°-70°	2900.2	20.3
70°-80°	1124.2	7.9
80°-90°	45.7	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°	14320.3	100.0
0°-180°	14320.3	100.0

**Coefficient of Utilization**



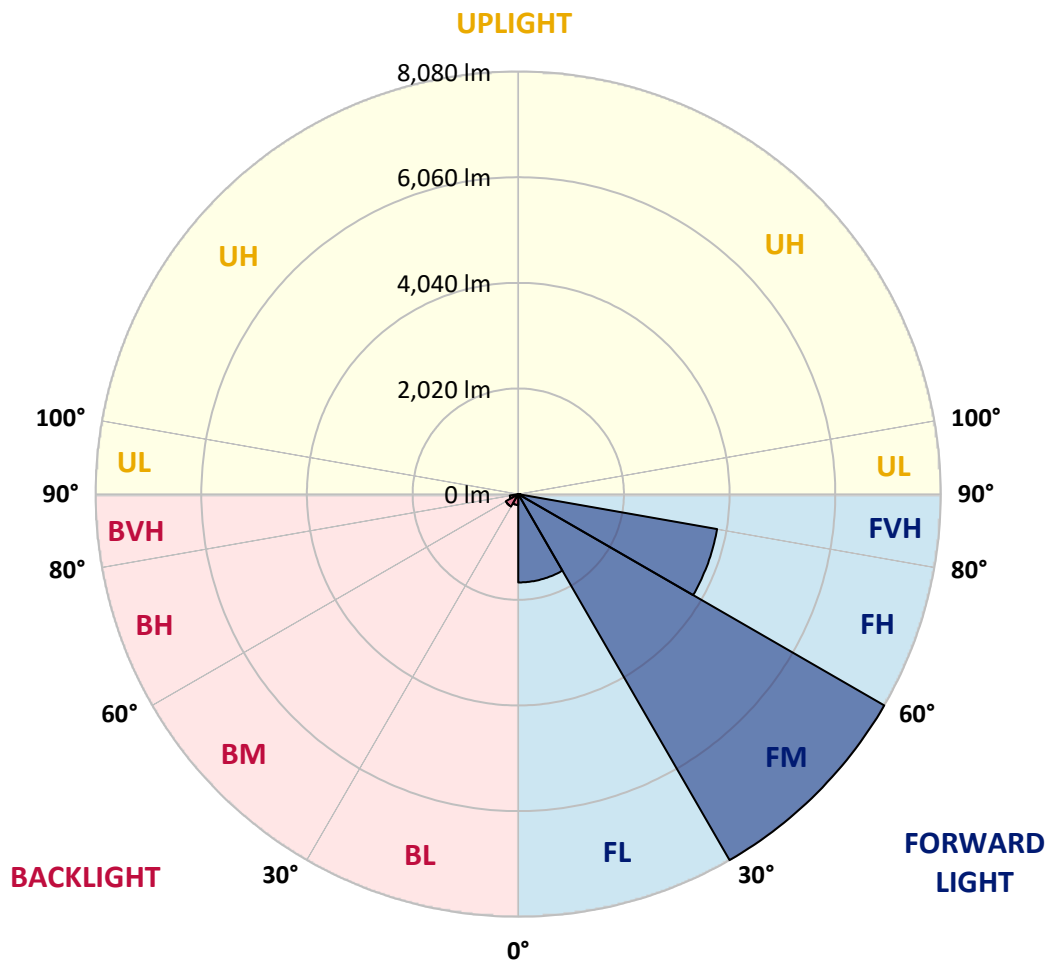
REPORT NUMBER: P482037  
 CATALOG NUMBER: IFLD-M-SA4A-735-U-T2R-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1688.5	11.8			
FM (30°-60°)	8079.8	56.4			
FH (60°-80°)	3860.5	27.0			G2/5000
FVH (80°-90°)	42.2	0.3			G1/100
BL (0°-30°)	207.5	1.4	B1/500		
BM (30°-60°)	274.4	1.9	B1/1000		
BH (60°-80°)	164.0	1.1	B1/500		G1/500
BVH (80°-90°)	3.5	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





REPORT NUMBER: P482037

CATALOG NUMBER: IFLD-M-SA4A-735-U-T2R-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	1371.2	1371.2	1371.2	1371.2	1371.2	1371.2	1371.2	1371.2	1371.2	1371.2	1371.2
2.5°	2083.4	2044.0	2002.5	1990.7	1913.7	1826.9	1746.0	1667.1	1534.9	1536.9	1446.2
5°	2685.2	2635.8	2602.3	2594.4	2474.1	2324.1	2201.8	1978.9	1759.9	1710.5	1544.8
7.5°	3180.4	3164.6	3115.3	3073.8	2985.0	2801.6	2657.5	2337.9	2004.5	1949.3	1665.2
10°	3480.3	3503.9	3525.6	3472.4	3403.3	3271.1	3073.8	2728.6	2282.7	2213.6	1821.0
12.5°	3799.9	3760.4	3774.2	3817.6	3726.9	3697.3	3452.6	3131.0	2608.2	2476.0	2018.3
15°	3882.7	3898.5	3932.1	4058.3	4119.5	4034.6	3823.5	3456.6	2945.6	2762.1	2201.8
17.5°	3938.0	3930.1	3971.5	4160.9	4253.6	4334.5	4202.3	3819.6	3239.6	3075.8	2430.7
20°	4007.0	3963.6	4054.4	4174.7	4389.8	4559.4	4553.5	4184.6	3547.3	3373.7	2657.5
22.5°	4263.5	4230.0	4303.0	4314.8	4464.7	4701.5	4758.7	4482.5	3863.0	3649.9	2902.2
25°	4737.0	4798.2	4711.4	4636.4	4681.8	4837.6	4879.1	4746.9	4180.6	3985.3	3146.8
27.5°	5429.5	5421.6	5250.0	5153.3	5044.8	5025.1	5054.7	4993.5	4431.2	4291.1	3348.1
30°	6173.3	6108.2	5950.4	5717.6	5478.8	5330.9	5289.4	5226.3	4725.2	4522.0	3547.3
32.5°	6765.2	6800.7	6625.1	6321.3	5924.7	5725.4	5526.2	5457.1	5048.7	4869.2	3776.2
35°	7309.7	7262.4	7122.3	6865.8	6510.7	6189.1	5877.4	5729.4	5437.4	5259.8	4028.7
37.5°	7712.2	7771.4	7505.0	7260.4	6907.2	6640.9	6335.1	6011.5	5837.9	5601.2	4336.5
40°	8093.0	8000.2	7820.7	7595.8	7268.3	7065.1	6863.8	6358.8	6264.1	5958.3	4683.7
42.5°	8025.9	8031.8	7933.2	7751.6	7514.9	7398.5	7329.4	6781.0	6650.8	6455.4	5023.1
45°	7751.6	7775.3	7808.9	7720.1	7739.8	7623.4	7808.9	7266.3	7138.1	6930.9	5413.7
47.5°	7449.8	7489.2	7481.4	7643.1	7826.6	7866.1	8329.7	7804.9	7749.7	7635.2	5954.3
50°	6948.7	6964.4	7116.4	7410.3	7660.9	8073.2	8720.4	8392.9	8477.7	8252.8	6597.5
52.5°	6092.4	6149.6	6540.3	6960.5	7465.6	8177.8	8984.7	9266.9	9481.9	9251.1	7215.0
55°	5009.3	5088.2	5472.9	6260.1	7000.0	8020.0	9225.4	9728.5	10164.5	9815.3	7589.9
57.5°	4030.7	4038.6	4383.9	5196.7	6339.0	7710.2	9347.8	9953.4	10539.4	10259.2	8047.6
60°	3071.9	3040.3	3350.0	4054.4	5226.3	6948.7	9041.9	10067.9	11007.0	10845.2	8598.0
62.5°	1976.9	1927.6	2264.9	2951.5	4082.0	5680.1	8430.3	10069.8	11737.0	11675.8	9519.4
65°	978.6	945.0	1235.1	1809.2	2825.2	4344.4	7558.3	10032.4	12628.7	12668.2	10417.1
67.5°	516.9	528.7	621.5	917.4	1629.6	3069.9	6244.3	9592.4	13084.5	13305.5	10634.1
68°	475.5	479.4	552.4	763.5	1414.6	2846.9	5932.6	9464.2	13120.0	13392.3	10513.8
70°	386.7	392.6	418.3	479.4	765.5	1852.6	4577.2	8375.1	12585.3	12833.9	9517.4
72.5°	307.8	325.5	341.3	367.0	449.8	972.7	2846.9	6526.5	10397.3	10425.0	7408.4
75°	234.8	248.6	280.2	301.9	351.2	534.7	1355.4	3979.4	6822.4	6487.0	4364.1
77.5°	181.5	193.3	207.2	236.8	294.0	361.0	414.3	1688.8	2898.2	2385.3	1233.1
80°	108.5	116.4	161.8	185.5	256.5	244.6	163.8	469.6	587.9	463.6	224.9
82.5°	63.1	69.1	92.7	142.1	179.5	132.2	96.7	146.0	144.0	126.3	75.0
85°	2.0	3.9	51.3	84.8	63.1	35.5	59.2	61.2	51.3	47.4	33.5
87.5°	0.0	2.0	13.8	11.8	13.8	7.9	11.8	15.8	19.7	17.8	13.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P482037

CATALOG NUMBER: IFLD-M-SA4A-735-U-T2R-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1371.2	1371.2	1371.2	1371.2	1371.2	1371.2	1371.2	1371.2	1371.2	1371.2	1371.2
2.5°	1385.0	1341.6	1244.9	1171.9	1093.0	1045.7	998.3	968.7	952.9	943.1	951.0
5°	1420.5	1329.8	1173.9	1035.8	945.0	883.9	822.7	791.1	761.6	745.8	755.6
7.5°	1499.4	1363.3	1104.8	954.9	848.4	753.7	676.7	615.6	580.0	548.5	554.4
10°	1596.1	1383.0	1106.8	907.5	753.7	603.7	495.2	418.3	374.9	347.2	345.3
12.5°	1694.7	1460.0	1114.7	860.2	637.3	453.8	325.5	268.3	242.7	228.9	228.9
15°	1844.7	1529.0	1095.0	773.4	483.4	295.9	222.9	203.2	193.3	181.5	183.5
17.5°	1974.9	1639.5	1085.1	643.2	331.5	213.1	185.5	163.8	153.9	142.1	142.1
20°	2150.5	1708.6	1031.8	497.2	228.9	177.6	149.9	130.2	114.4	104.6	106.5
22.5°	2310.3	1761.8	937.1	339.3	175.6	140.1	110.5	90.8	76.9	65.1	67.1
25°	2483.9	1815.1	799.0	209.1	124.3	86.8	59.2	43.4	29.6	21.7	21.7
27.5°	2608.2	1830.9	619.5	124.3	75.0	39.5	13.8	2.0	0.0	0.0	0.0
30°	2734.5	1836.8	428.1	67.1	29.6	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	2878.5	1834.8	268.3	35.5	2.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	2989.0	1801.3	128.2	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	3156.7	1752.0	39.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	3348.1	1663.2	7.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	3519.7	1572.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	3715.0	1460.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	4058.3	1412.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	4506.2	1375.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	4782.4	1264.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	4926.4	1150.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	5139.5	1095.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	5455.2	1098.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	5948.4	1154.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	6220.7	1098.9	7.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	5989.8	879.9	37.5	9.9	2.0	0.0	0.0	0.0	0.0	0.0	0.0
68°	5790.6	808.9	37.5	9.9	2.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	4786.3	526.8	35.5	9.9	3.9	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	3486.2	292.0	29.6	7.9	3.9	0.0	0.0	0.0	0.0	0.0	0.0
75°	2028.2	146.0	21.7	7.9	3.9	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	528.7	73.0	17.8	9.9	5.9	2.0	0.0	0.0	0.0	0.0	0.0
80°	104.6	47.4	15.8	11.8	7.9	3.9	0.0	0.0	0.0	0.0	0.0
82.5°	49.3	33.5	15.8	11.8	9.9	5.9	2.0	0.0	0.0	0.0	0.0
85°	25.6	15.8	15.8	11.8	11.8	7.9	3.9	0.0	0.0	0.0	0.0
87.5°	11.8	5.9	5.9	5.9	5.9	3.9	2.0	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)