

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: P482015

Luminaire Tested: **IFLD-S-SA2D-735-U-T2R-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P482015  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2D-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**

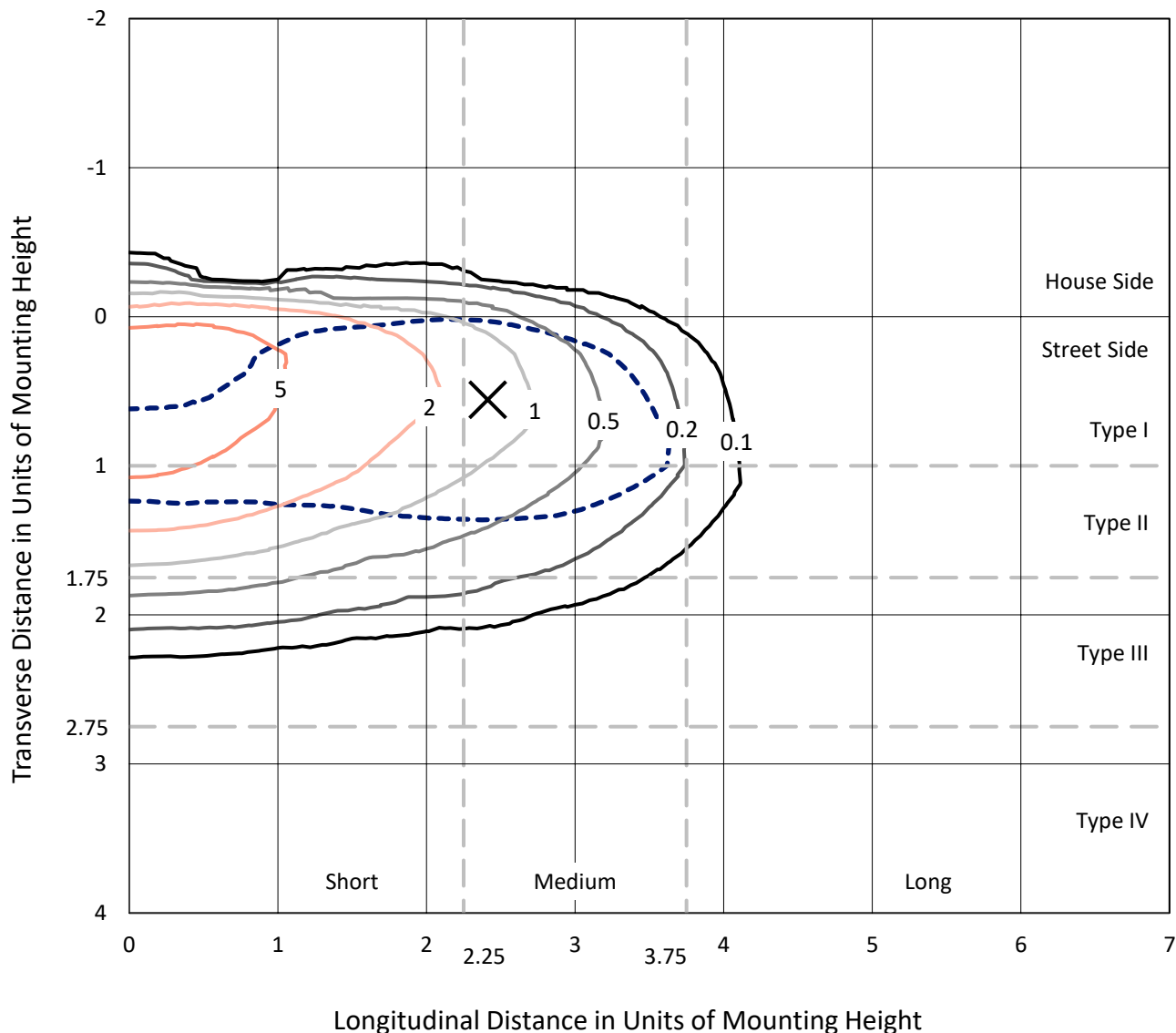
Lumens per Lamp: N/A  
Luminaire Lumens: 12127.5 lumens  
Efficiency: N/A  
Efficacy: 97.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G2

Input Watts (W): 123.9  
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: P482015  
 CATALOG NUMBER: IFLD-S-SA2D-735-U-T2R-HSS

### Iso-Footcandle Lines of Horizontal Illumination

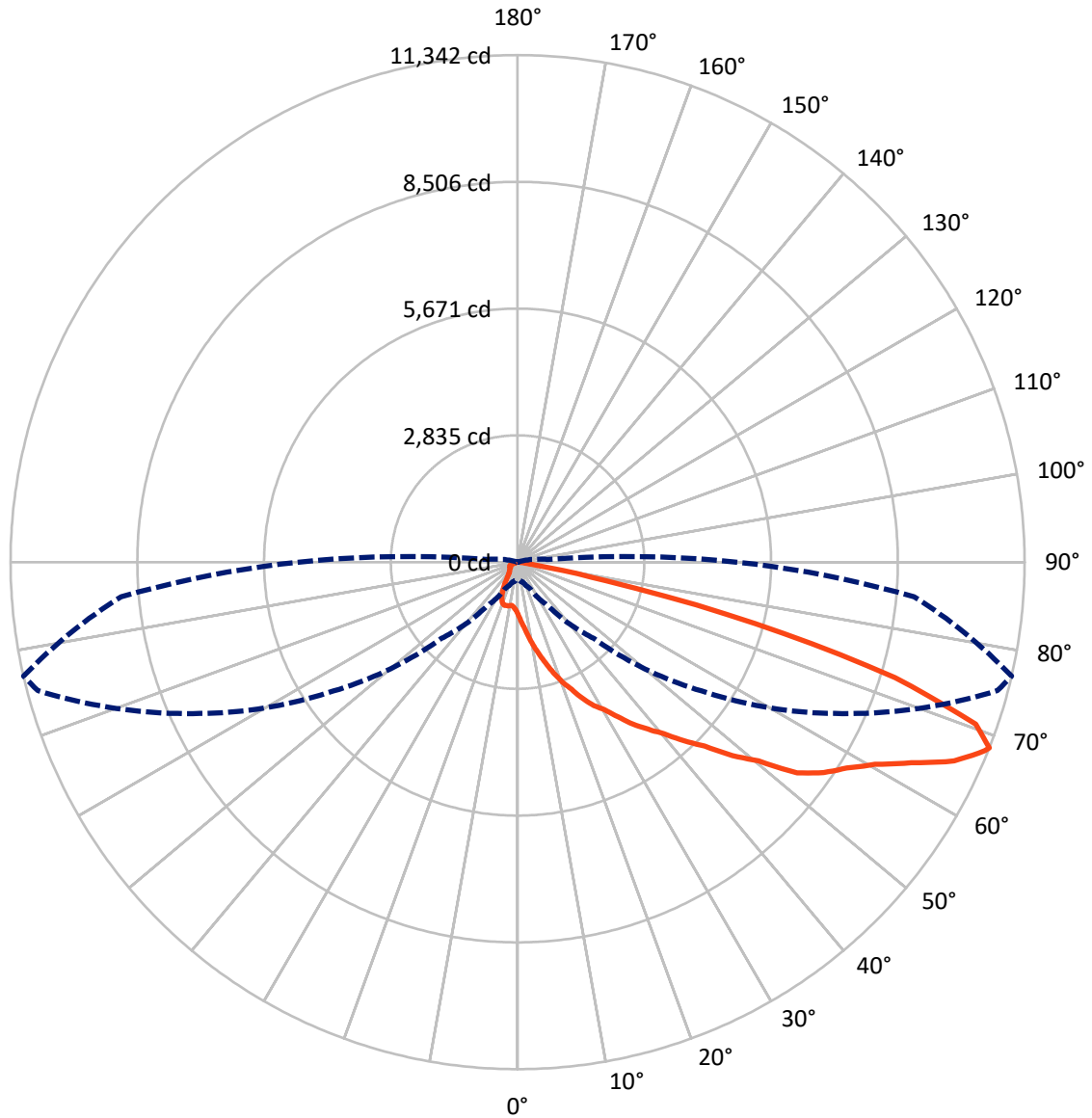
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 8.6 fc  
 Type II - Medium - N/A

REPORT NUMBER: P482015  
CATALOG NUMBER: IFLD-S-SA2D-735-U-T2R-HSS

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P482015  
 CATALOG NUMBER: IFLD-S-SA2D-735-U-T2R-HSS

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	550.0	0.0	550.0
	% Fixture	4.5	0.0	4.5
<b>Street Side</b>	Lumens	11577.5	0.0	11577.5
	% Fixture	95.5	0.0	95.5
<b>Total</b>	Lumens	12127.5	0.0	12127.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	135.7	1.1
10°-20°	500.3	4.1
20°-30°	969.7	8.0
30°-40°	1690.4	13.9
40°-50°	2475.8	20.4
50°-60°	2908.7	24.0
60°-70°	2456.1	20.3
70°-80°	952.1	7.9
80°-90°	38.7	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°	12127.5	100.0
0°-180°	12127.5	100.0

**Coefficient of Utilization**



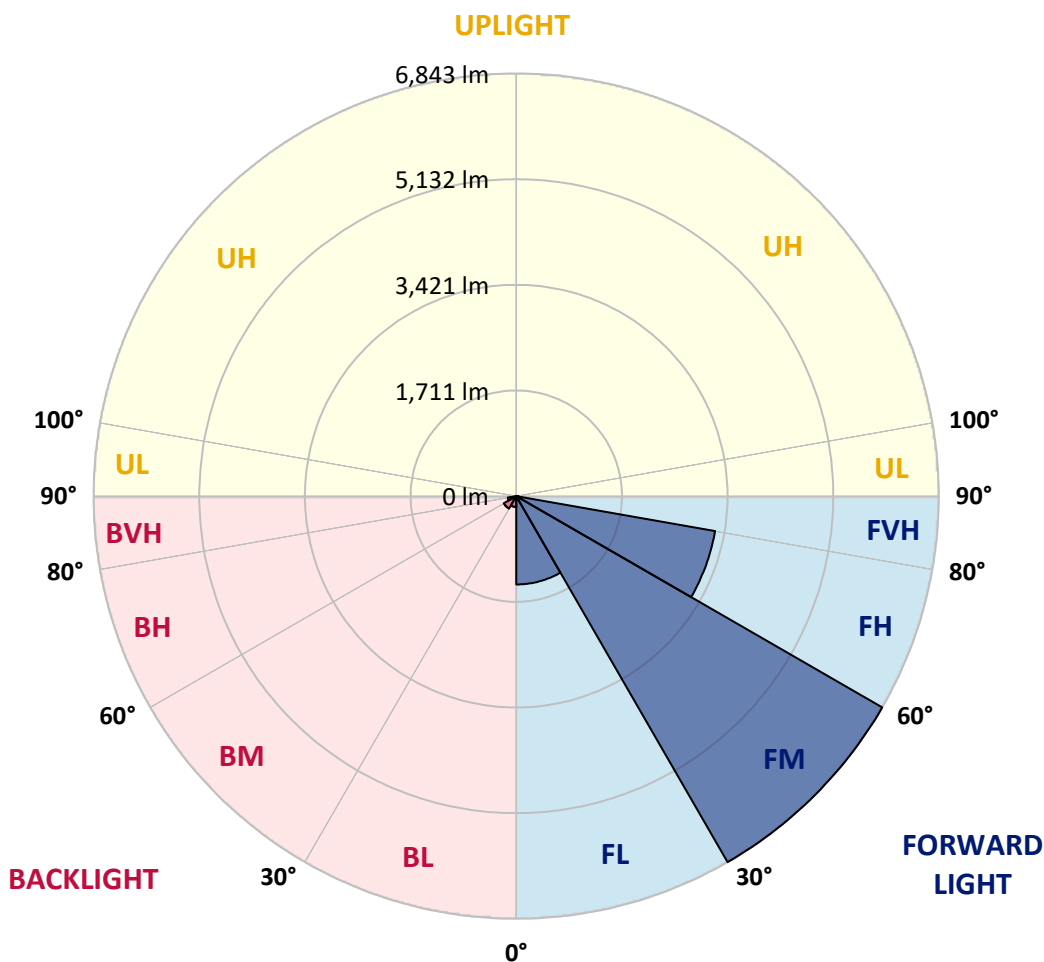
REPORT NUMBER: P482015  
 CATALOG NUMBER: IFLD-S-SA2D-735-U-T2R-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1429.9	11.8			
FM (30°-60°)	6842.5	56.4			
FH (60°-80°)	3269.3	27.0			G2/5000
FVH (80°-90°)	35.7	0.3			G1/100
BL (0°-30°)	175.7	1.4	B1/500		
BM (30°-60°)	232.4	1.9	B1/1000		
BH (60°-80°)	138.9	1.1	B1/500		G1/500
BVH (80°-90°)	3.0	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





REPORT NUMBER: P482015

CATALOG NUMBER: IFLD-S-SA2D-735-U-T2R-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	1161.2	1161.2	1161.2	1161.2	1161.2	1161.2	1161.2	1161.2	1161.2	1161.2	1161.2
2.5°	1764.4	1731.0	1695.9	1685.9	1620.7	1547.2	1478.7	1411.8	1299.9	1301.6	1224.7
5°	2274.0	2232.2	2203.8	2197.1	2095.2	1968.2	1864.6	1675.8	1490.4	1448.6	1308.3
7.5°	2693.4	2680.0	2638.2	2603.1	2528.0	2372.6	2250.6	1979.9	1697.6	1650.8	1410.2
10°	2947.3	2967.4	2985.8	2940.6	2882.2	2770.2	2603.1	2310.7	1933.1	1874.7	1542.2
12.5°	3218.0	3184.6	3196.3	3233.0	3156.2	3131.1	2923.9	2651.6	2208.8	2096.9	1709.3
15°	3288.2	3301.5	3330.0	3436.9	3488.7	3416.8	3238.1	2927.3	2494.5	2339.2	1864.6
17.5°	3335.0	3328.3	3363.4	3523.8	3602.3	3670.8	3558.9	3234.7	2743.5	2604.8	2058.5
20°	3393.4	3356.7	3433.5	3535.5	3717.6	3861.3	3856.3	3543.8	3004.1	2857.1	2250.6
22.5°	3610.6	3582.2	3644.1	3654.1	3781.1	3981.6	4030.0	3796.1	3271.5	3091.0	2457.8
25°	4011.6	4063.4	3989.9	3926.4	3964.9	4096.9	4131.9	4020.0	3540.5	3375.1	2665.0
27.5°	4598.1	4591.4	4446.1	4364.2	4272.3	4255.6	4280.6	4228.9	3752.7	3634.0	2835.4
30°	5228.0	5172.9	5039.2	4842.0	4639.9	4514.6	4479.5	4426.0	4001.6	3829.5	3004.1
32.5°	5729.3	5759.3	5610.6	5353.3	5017.5	4848.7	4680.0	4621.5	4275.6	4123.6	3198.0
35°	6190.4	6150.3	6031.7	5814.5	5513.7	5241.4	4977.4	4852.1	4604.8	4454.4	3411.8
37.5°	6531.2	6581.4	6355.8	6148.6	5849.6	5624.0	5365.0	5091.0	4944.0	4743.5	3672.5
40°	6853.7	6775.2	6623.1	6432.7	6155.3	5983.2	5812.8	5385.1	5304.9	5045.9	3966.5
42.5°	6796.9	6801.9	6718.4	6564.7	6364.2	6265.6	6207.1	5742.6	5632.3	5466.9	4253.9
45°	6564.7	6584.7	6613.1	6537.9	6554.6	6456.1	6613.1	6153.6	6045.0	5869.6	4584.7
47.5°	6309.0	6342.4	6335.8	6472.8	6628.2	6661.6	7054.2	6609.8	6563.0	6466.1	5042.5
50°	5884.6	5898.0	6026.7	6275.6	6487.8	6837.0	7385.0	7107.7	7179.5	6989.1	5587.2
52.5°	5159.5	5208.0	5538.8	5894.7	6322.4	6925.6	7608.9	7847.9	8030.0	7834.5	6110.2
55°	4242.2	4309.1	4634.9	5301.5	5928.1	6791.9	7812.8	8238.8	8608.1	8312.3	6427.7
57.5°	3413.5	3420.2	3712.6	4400.9	5368.4	6529.6	7916.4	8429.3	8925.5	8688.3	6815.3
60°	2601.5	2574.7	2837.1	3433.5	4426.0	5884.6	7657.4	8526.2	9321.5	9184.5	7281.4
62.5°	1674.2	1632.4	1918.1	2499.6	3456.9	4810.3	7139.4	8527.9	9939.7	9887.9	8061.7
65°	828.7	800.3	1045.9	1532.1	2392.6	3679.2	6400.9	8496.1	10694.9	10728.4	8821.9
67.5°	437.8	447.8	526.3	776.9	1380.1	2599.8	5288.2	8123.5	11080.9	11268.0	9005.7
68°	402.7	406.0	467.8	646.6	1198.0	2411.0	5024.2	8014.9	11111.0	11341.6	8903.8
70°	327.5	332.5	354.2	406.0	648.3	1568.9	3876.3	7092.6	10658.2	10868.7	8060.1
72.5°	260.6	275.7	289.1	310.8	380.9	823.7	2411.0	5527.1	8805.2	8828.6	6273.9
75°	198.8	210.5	237.3	255.6	297.4	452.8	1147.9	3370.1	5777.7	5493.7	3695.9
77.5°	153.7	163.7	175.4	200.5	249.0	305.8	350.9	1430.2	2454.4	2020.0	1044.3
80°	91.9	98.6	137.0	157.1	217.2	207.2	138.7	397.7	497.9	392.6	190.5
82.5°	53.5	58.5	78.5	120.3	152.0	111.9	81.9	123.6	122.0	106.9	63.5
85°	1.7	3.3	43.4	71.8	53.5	30.1	50.1	51.8	43.4	40.1	28.4
87.5°	0.0	1.7	11.7	10.0	11.7	6.7	10.0	13.4	16.7	15.0	11.7
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: P482015

CATALOG NUMBER: IFLD-S-SA2D-735-U-T2R-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1161.2	1161.2	1161.2	1161.2	1161.2	1161.2	1161.2	1161.2	1161.2	1161.2	1161.2
2.5°	1172.9	1136.2	1054.3	992.5	925.6	885.5	845.4	820.4	807.0	798.7	805.3
5°	1203.0	1126.1	994.1	877.2	800.3	748.5	696.7	670.0	644.9	631.6	639.9
7.5°	1269.8	1154.5	935.7	808.7	718.5	638.3	573.1	521.3	491.2	464.5	469.5
10°	1351.7	1171.2	937.3	768.6	638.3	511.3	419.4	354.2	317.5	294.1	292.4
12.5°	1435.2	1236.4	944.0	728.5	539.7	384.3	275.7	227.2	205.5	193.8	193.8
15°	1562.2	1294.9	927.3	655.0	409.4	250.6	188.8	172.1	163.7	153.7	155.4
17.5°	1672.5	1388.5	919.0	544.7	280.7	180.4	157.1	138.7	130.3	120.3	120.3
20°	1821.2	1446.9	873.8	421.0	193.8	150.4	127.0	110.3	96.9	88.6	90.2
22.5°	1956.5	1492.0	793.6	287.4	148.7	118.6	93.6	76.9	65.2	55.1	56.8
25°	2103.6	1537.2	676.7	177.1	105.3	73.5	50.1	36.8	25.1	18.4	18.4
27.5°	2208.8	1550.5	524.6	105.3	63.5	33.4	11.7	1.7	0.0	0.0	0.0
30°	2315.8	1555.5	362.6	56.8	25.1	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	2437.7	1553.9	227.2	30.1	1.7	0.0	0.0	0.0	0.0	0.0	0.0
35°	2531.3	1525.5	108.6	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	2673.3	1483.7	33.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	2835.4	1408.5	6.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	2980.7	1331.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	3146.2	1236.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	3436.9	1196.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	3816.2	1164.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	4050.1	1071.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	4172.0	974.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	4352.5	927.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	4619.8	930.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	5037.5	977.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	5268.1	930.6	6.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	5072.6	745.2	31.7	8.4	1.7	0.0	0.0	0.0	0.0	0.0	0.0
68°	4903.9	685.0	31.7	8.4	1.7	0.0	0.0	0.0	0.0	0.0	0.0
70°	4053.4	446.1	30.1	8.4	3.3	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	2952.3	247.3	25.1	6.7	3.3	0.0	0.0	0.0	0.0	0.0	0.0
75°	1717.6	123.6	18.4	6.7	3.3	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	447.8	61.8	15.0	8.4	5.0	1.7	0.0	0.0	0.0	0.0	0.0
80°	88.6	40.1	13.4	10.0	6.7	3.3	0.0	0.0	0.0	0.0	0.0
82.5°	41.8	28.4	13.4	10.0	8.4	5.0	1.7	0.0	0.0	0.0	0.0
85°	21.7	13.4	13.4	10.0	10.0	6.7	3.3	0.0	0.0	0.0	0.0
87.5°	10.0	5.0	5.0	5.0	5.0	3.3	1.7	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)