

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: P481960

Luminaire Tested: **IFLD-M-SA4B-727-U-T2R-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P481960  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4B-727-U-T2R-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens with House Side Shield  
Light Source: (64) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

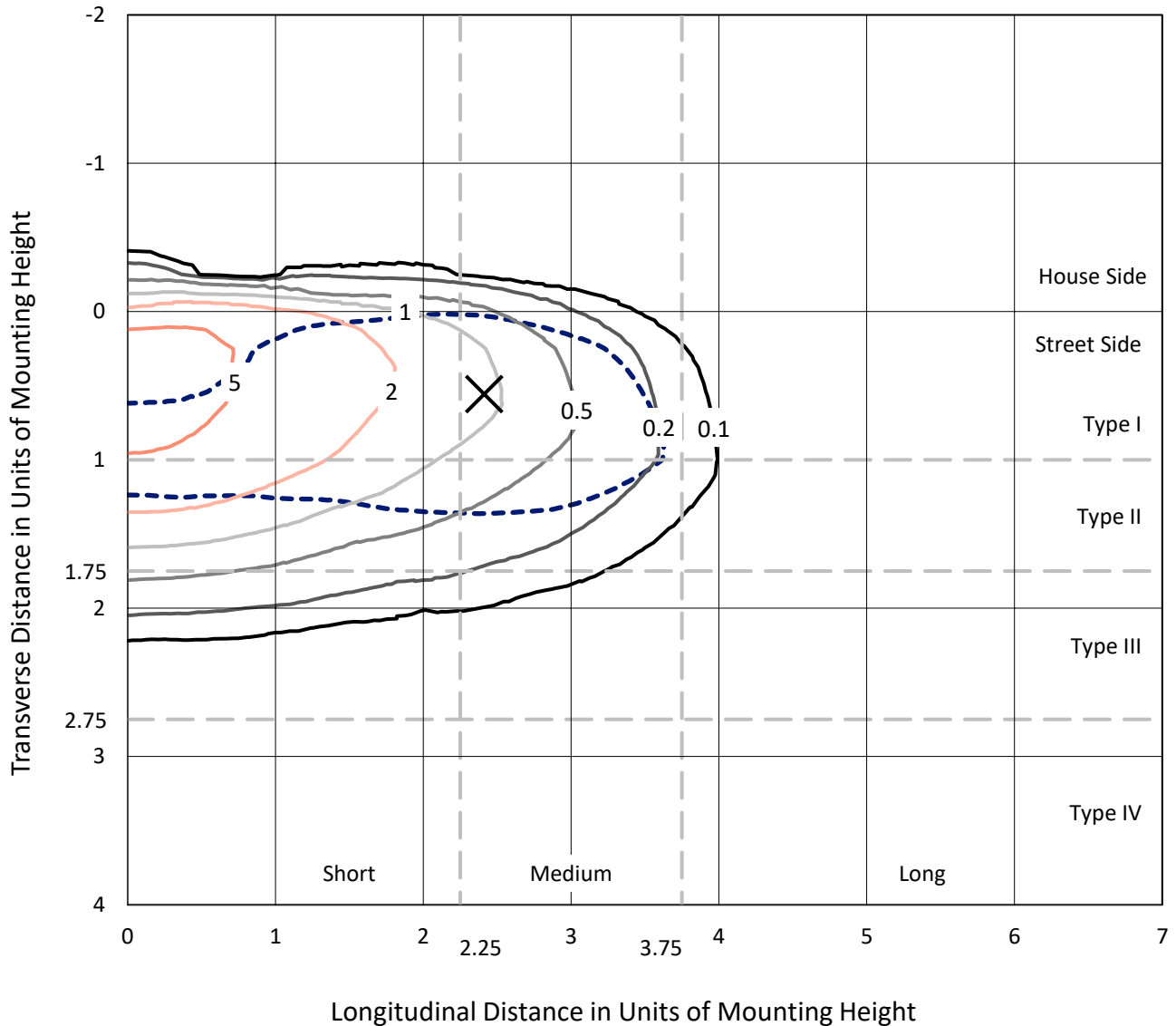
Lumens per Lamp: N/A  
Luminaire Lumens: 15017.1 lumens  
Efficiency: N/A  
Efficacy: 90.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G2

Input Watts (W): 166.1  
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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 CATALOG NUMBER: IFLD-M-SA4B-727-U-T2R-HSS

### Iso-Footcandle Lines of Horizontal Illumination

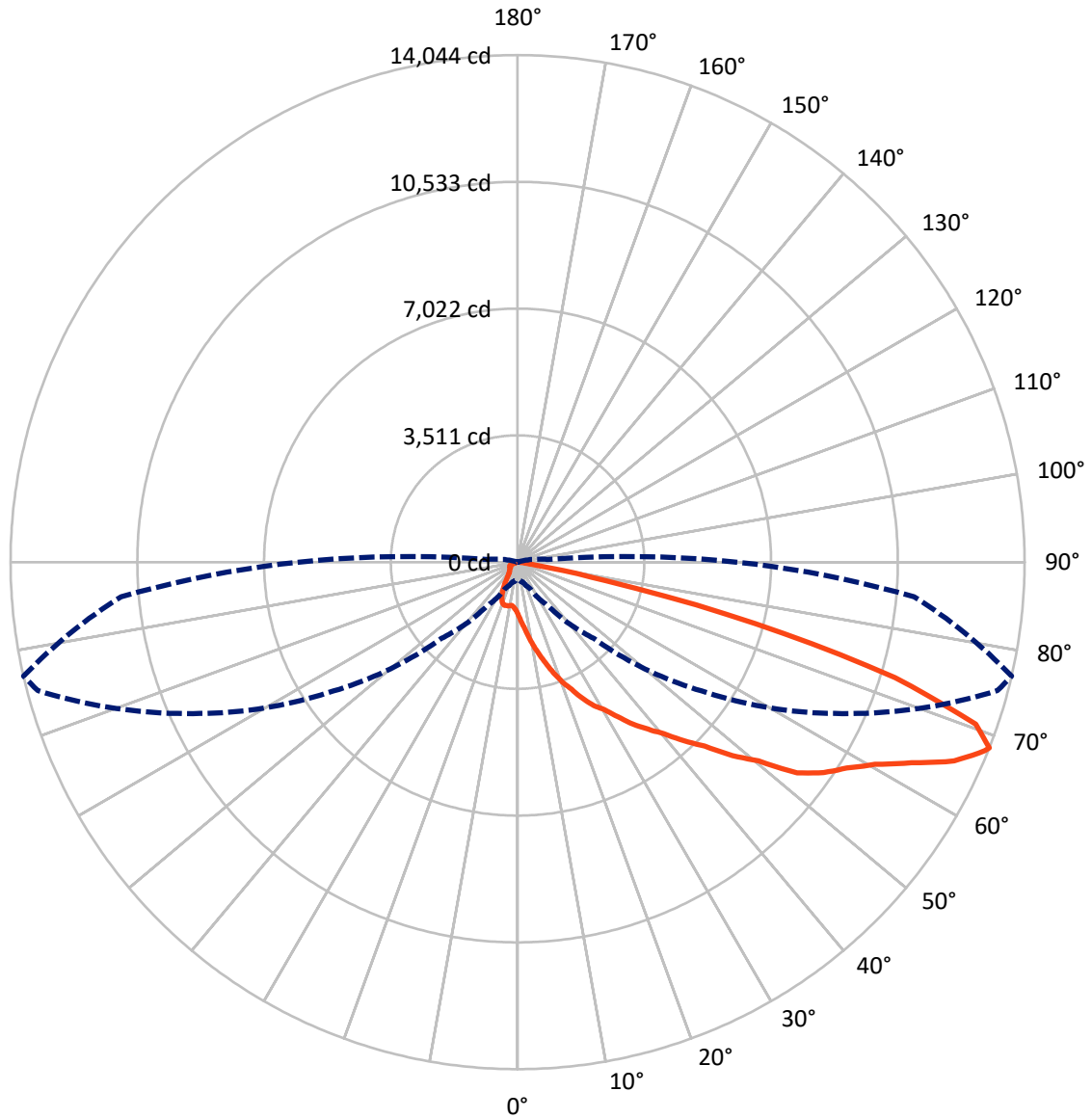
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 fc  
 Type II - Medium - N/A

REPORT NUMBER: P481960  
CATALOG NUMBER: IFLD-M-SA4B-727-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	681.0	0.0	681.0
	% Fixture	4.5	0.0	4.5
<b>Street Side</b>	Lumens	14336.1	0.0	14336.1
	% Fixture	95.5	0.0	95.5
<b>Total</b>	Lumens	15017.1	0.0	15017.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	168.0	1.1
10°-20°	619.5	4.1
20°-30°	1200.7	8.0
30°-40°	2093.2	13.9
40°-50°	3065.7	20.4
50°-60°	3601.7	24.0
60°-70°	3041.3	20.3
70°-80°	1178.9	7.9
80°-90°	47.9	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°	15017.1	100.0
0°-180°	15017.1	100.0

**Coefficient of Utilization**

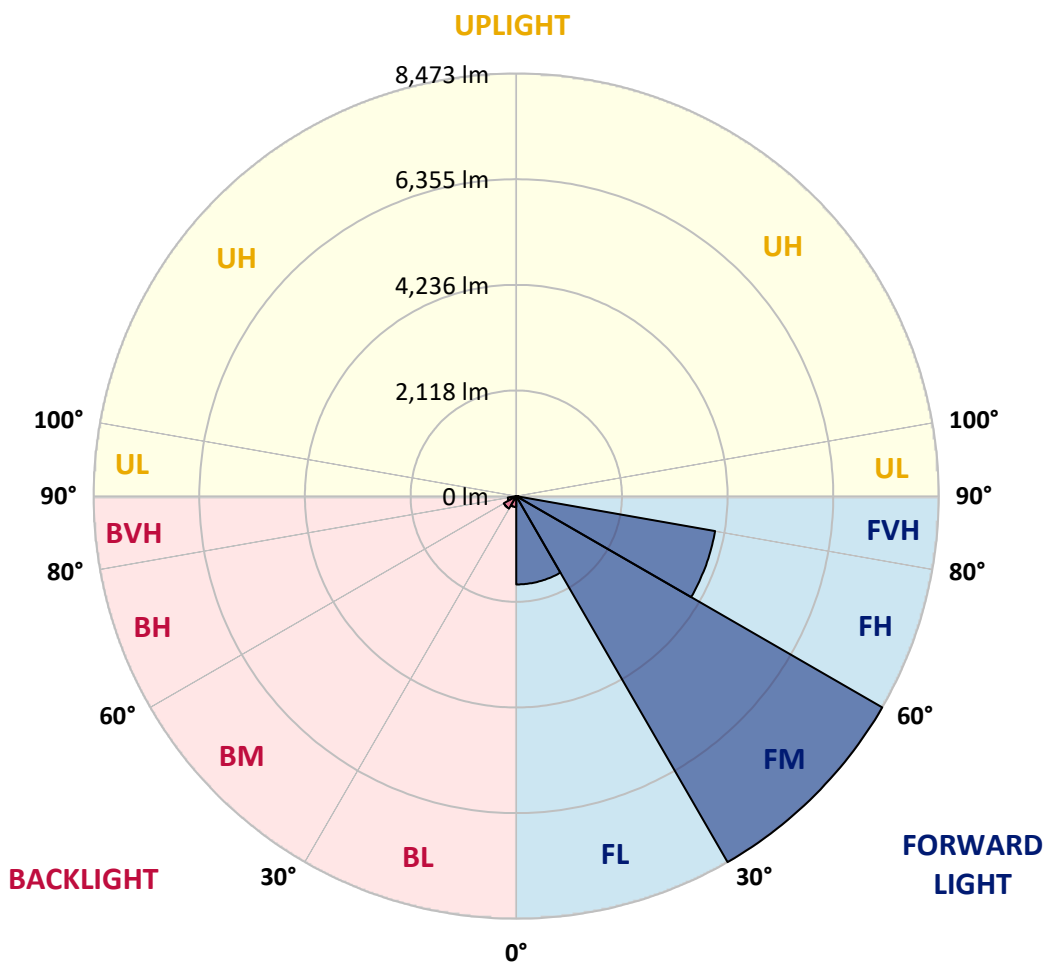


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 CATALOG NUMBER: IFLD-M-SA4B-727-U-T2R-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1770.6	11.8			
FM (30°-60°)	8472.9	56.4			
FH (60°-80°)	4048.3	27.0			G2/5000
FVH (80°-90°)	44.2	0.3			G1/100
BL (0°-30°)	217.6	1.4	B1/500		
BM (30°-60°)	287.8	1.9	B1/1000		
BH (60°-80°)	171.9	1.1	B1/500		G1/500
BVH (80°-90°)	3.7	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: P481960

CATALOG NUMBER: IFLD-M-SA4B-727-U-T2R-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	1437.9	1437.9	1437.9	1437.9	1437.9	1437.9	1437.9	1437.9	1437.9	1437.9	1437.9
2.5°	2184.8	2143.4	2100.0	2087.5	2006.9	1915.8	1831.0	1748.2	1609.6	1611.7	1516.5
5°	2815.8	2764.1	2728.9	2720.6	2594.4	2437.2	2308.9	2075.1	1845.5	1793.8	1620.0
7.5°	3335.1	3318.6	3266.8	3223.4	3130.3	2937.9	2786.8	2451.7	2102.0	2044.1	1746.2
10°	3649.6	3674.4	3697.2	3641.3	3568.9	3430.3	3223.4	2861.3	2393.8	2321.3	1909.6
12.5°	3984.8	3943.4	3957.9	4003.4	3908.2	3877.2	3620.6	3283.4	2735.1	2596.5	2116.5
15°	4071.7	4088.2	4123.4	4255.8	4319.9	4231.0	4009.6	3624.8	3088.9	2896.5	2308.9
17.5°	4129.6	4121.3	4164.8	4363.4	4460.6	4545.4	4406.8	4005.4	3397.2	3225.5	2548.9
20°	4202.0	4156.5	4251.6	4377.9	4603.4	4781.3	4775.1	4388.2	3719.9	3537.9	2786.8
22.5°	4471.0	4435.8	4512.3	4524.7	4682.0	4930.3	4990.3	4700.6	4051.0	3827.5	3043.4
25°	4967.5	5031.6	4940.6	4862.0	4909.6	5073.0	5116.5	4977.8	4384.1	4179.2	3299.9
27.5°	5693.7	5685.4	5505.4	5404.0	5290.3	5269.6	5300.6	5236.5	4646.8	4499.9	3511.0
30°	6473.7	6405.4	6239.9	5995.8	5745.4	5590.2	5546.8	5480.6	4955.1	4742.0	3719.9
32.5°	7094.4	7131.6	6947.5	6628.8	6213.0	6004.0	5795.1	5722.7	5294.4	5106.1	3959.9
35°	7665.4	7615.7	7468.8	7199.9	6827.5	6490.2	6163.3	6008.2	5702.0	5515.8	4224.8
37.5°	8087.4	8149.5	7870.2	7613.7	7243.3	6964.0	6643.3	6304.0	6122.0	5873.7	4547.5
40°	8486.7	8389.5	8201.2	7965.4	7621.9	7408.8	7197.8	6668.2	6568.9	6248.2	4911.6
42.5°	8416.4	8422.6	8319.2	8128.8	7880.6	7758.5	7686.1	7110.9	6974.4	6769.5	5267.5
45°	8128.8	8153.7	8188.8	8095.7	8116.4	7994.3	8188.8	7619.9	7485.4	7268.1	5677.1
47.5°	7812.3	7853.7	7845.4	8015.0	8207.4	8248.8	8735.0	8184.7	8126.8	8006.8	6244.0
50°	7286.8	7303.3	7462.6	7770.9	8033.7	8466.1	9144.7	8801.2	8890.2	8654.3	6918.5
52.5°	6388.9	6448.9	6858.5	7299.2	7828.8	8575.7	9421.9	9717.8	9943.3	9701.2	7566.1
55°	5253.0	5335.8	5739.2	6564.7	7340.6	8410.2	9674.3	10201.9	10659.1	10292.9	7959.2
57.5°	4226.8	4235.1	4597.2	5449.6	6647.5	8085.4	9802.6	10437.7	11052.2	10758.4	8439.2
60°	3221.3	3188.2	3513.0	4251.6	5480.6	7286.8	9481.9	10557.7	11542.6	11372.9	9016.4
62.5°	2073.1	2021.3	2375.1	3095.1	4280.6	5956.4	8840.5	10559.8	12308.1	12243.9	9982.6
65°	1026.2	991.0	1295.1	1897.2	2962.7	4555.8	7926.1	10520.5	13243.2	13284.6	10923.9
67.5°	542.1	554.5	651.7	962.1	1708.9	3219.3	6548.2	10059.1	13721.1	13952.9	11151.5
68°	498.6	502.7	579.3	800.7	1483.4	2985.5	6221.3	9924.7	13758.4	14043.9	11025.3
70°	405.5	411.7	438.6	502.7	802.7	1942.7	4799.9	8782.6	13197.7	13458.4	9980.5
72.5°	322.8	341.4	357.9	384.8	471.7	1020.0	2985.5	6844.0	10903.3	10932.2	7768.8
75°	246.2	260.7	293.8	316.5	368.3	560.7	1421.4	4173.0	7154.4	6802.6	4576.5
77.5°	190.3	202.8	217.2	248.3	308.3	378.6	434.5	1771.0	3039.3	2501.3	1293.1
80°	113.8	122.1	169.7	194.5	269.0	256.5	171.7	492.4	616.5	486.2	235.9
82.5°	66.2	72.4	97.2	149.0	188.3	138.6	101.4	153.1	151.0	132.4	78.6
85°	2.1	4.1	53.8	89.0	66.2	37.2	62.1	64.1	53.8	49.7	35.2
87.5°	0.0	2.1	14.5	12.4	14.5	8.3	12.4	16.6	20.7	18.6	14.5
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: P481960

CATALOG NUMBER: IFLD-M-SA4B-727-U-T2R-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1437.9	1437.9	1437.9	1437.9	1437.9	1437.9	1437.9	1437.9	1437.9	1437.9	1437.9
2.5°	1452.4	1406.9	1305.5	1228.9	1146.2	1096.5	1046.9	1015.8	999.3	988.9	997.2
5°	1489.6	1394.5	1231.0	1086.2	991.0	926.9	862.7	829.6	798.6	782.1	792.4
7.5°	1572.4	1429.6	1158.6	1001.4	889.6	790.3	709.6	645.5	608.3	575.2	581.4
10°	1673.8	1450.3	1160.7	951.7	790.3	633.1	519.3	438.6	393.1	364.1	362.1
12.5°	1777.2	1531.0	1168.9	902.1	668.3	475.9	341.4	281.4	254.5	240.0	240.0
15°	1934.4	1603.4	1148.3	811.0	506.9	310.3	233.8	213.1	202.8	190.3	192.4
17.5°	2071.0	1719.3	1137.9	674.5	347.6	223.4	194.5	171.7	161.4	149.0	149.0
20°	2255.1	1791.7	1082.1	521.4	240.0	186.2	157.2	136.5	120.0	109.7	111.7
22.5°	2422.7	1847.6	982.7	355.9	184.1	146.9	115.9	95.2	80.7	68.3	70.3
25°	2604.8	1903.4	837.9	219.3	130.3	91.0	62.1	45.5	31.0	22.8	22.8
27.5°	2735.1	1920.0	649.6	130.3	78.6	41.4	14.5	2.1	0.0	0.0	0.0
30°	2867.5	1926.2	449.0	70.3	31.0	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	3018.6	1924.1	281.4	37.2	2.1	0.0	0.0	0.0	0.0	0.0	0.0
35°	3134.4	1888.9	134.5	4.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	3310.3	1837.2	41.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	3511.0	1744.1	8.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	3691.0	1648.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	3895.8	1531.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	4255.8	1481.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	4725.4	1442.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	5015.1	1326.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	5166.1	1206.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	5389.6	1148.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	5720.6	1152.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	6237.8	1210.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	6523.3	1152.4	8.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	6281.3	922.7	39.3	10.3	2.1	0.0	0.0	0.0	0.0	0.0	0.0
68°	6072.3	848.3	39.3	10.3	2.1	0.0	0.0	0.0	0.0	0.0	0.0
70°	5019.2	552.4	37.2	10.3	4.1	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	3655.8	306.2	31.0	8.3	4.1	0.0	0.0	0.0	0.0	0.0	0.0
75°	2126.9	153.1	22.8	8.3	4.1	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	554.5	76.6	18.6	10.3	6.2	2.1	0.0	0.0	0.0	0.0	0.0
80°	109.7	49.7	16.6	12.4	8.3	4.1	0.0	0.0	0.0	0.0	0.0
82.5°	51.7	35.2	16.6	12.4	10.3	6.2	2.1	0.0	0.0	0.0	0.0
85°	26.9	16.6	16.6	12.4	12.4	8.3	4.1	0.0	0.0	0.0	0.0
87.5°	12.4	6.2	6.2	6.2	6.2	4.1	2.1	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)