

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: P482195

Luminaire Tested: **IFLD-M-SA4C-827-U-T2R-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P482195  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4C-827-U-T2R-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens with House Side Shield  
Light Source: (64) 2700K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

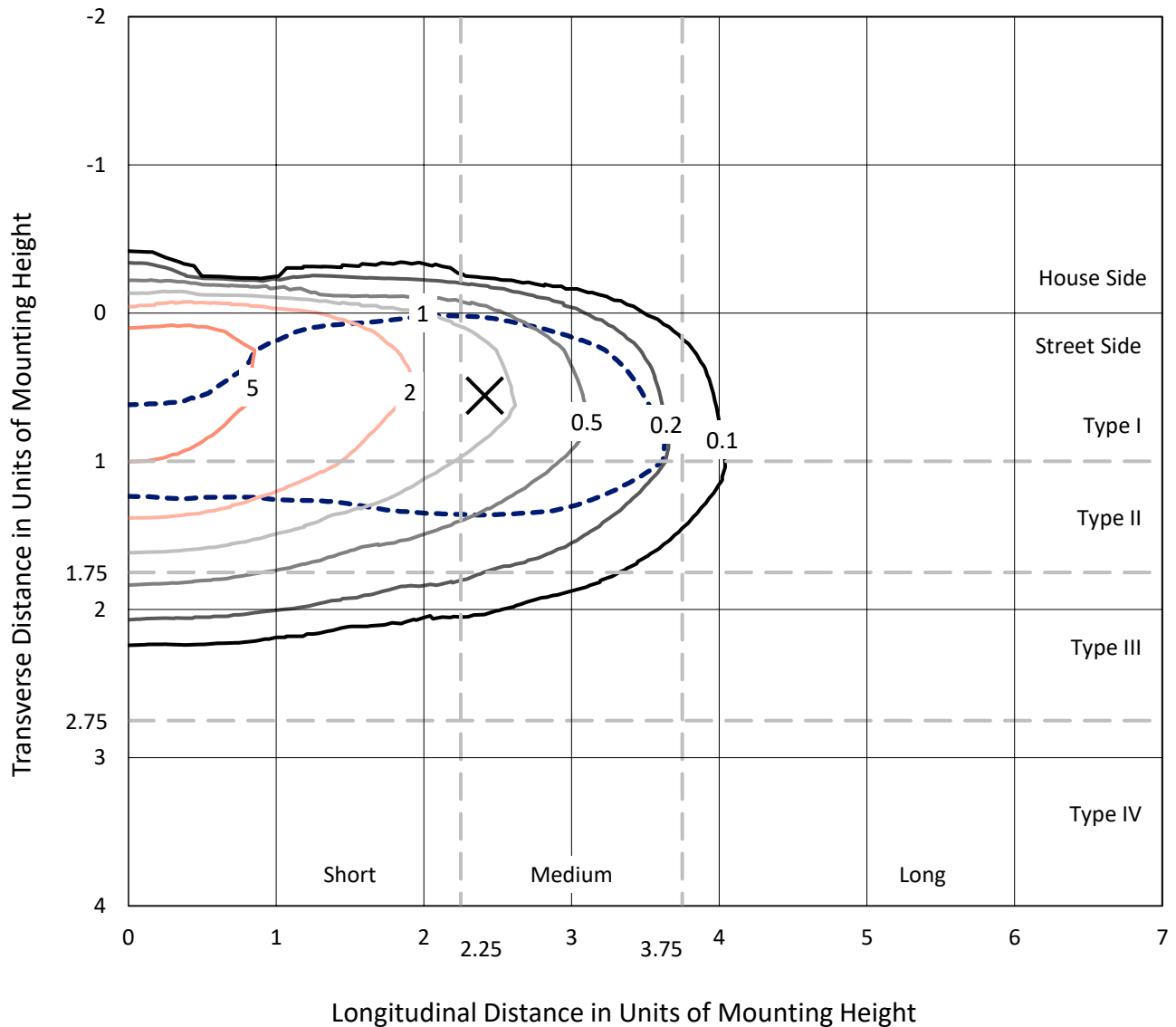
Lumens per Lamp: N/A  
Luminaire Lumens: 16431.8 lumens  
Efficiency: N/A  
Efficacy: 75.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G2

Input Watts (W): 218.1  
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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### Iso-Footcandle Lines of Horizontal Illumination

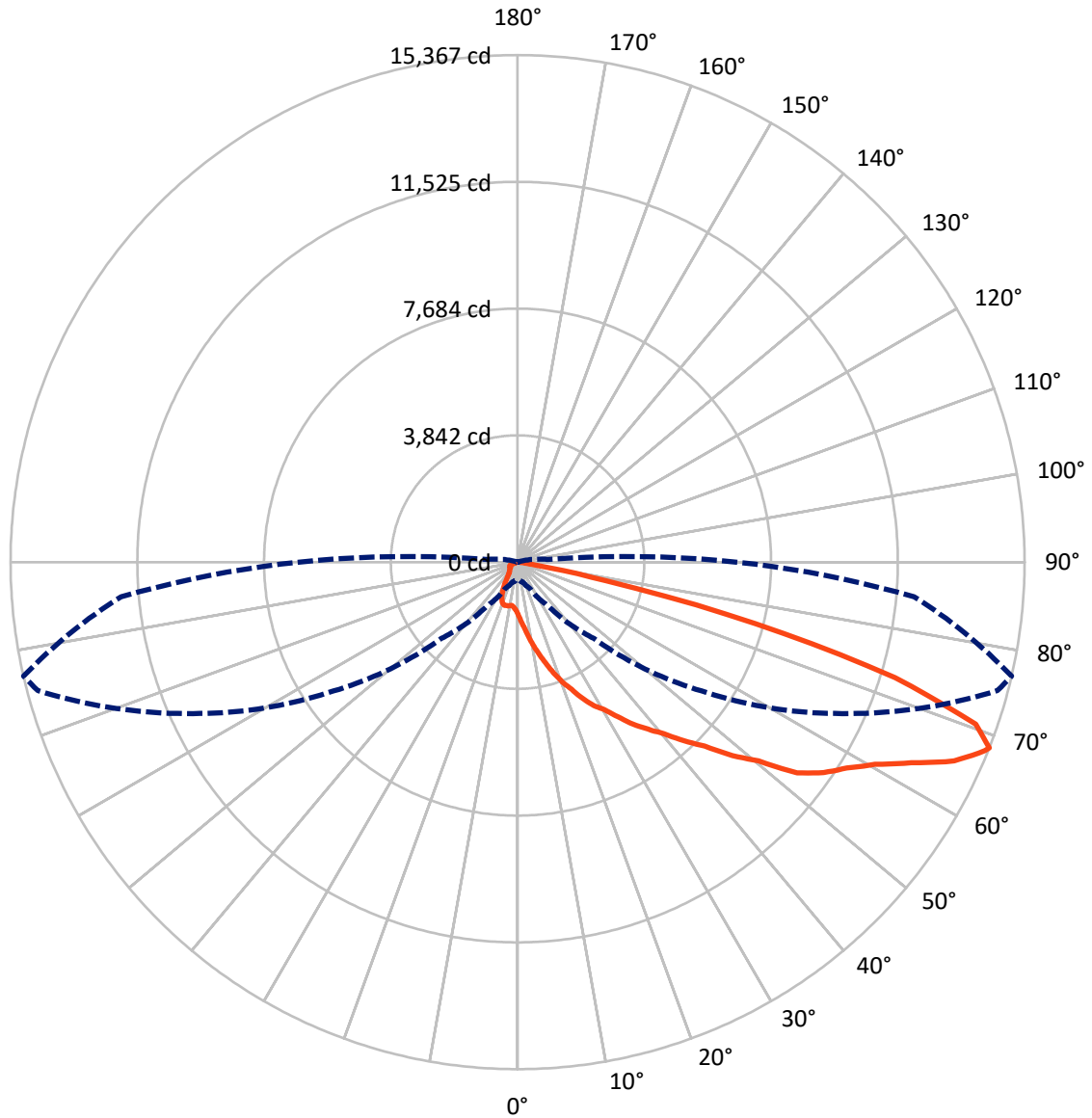
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 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	745.2	0.0	745.2
	% Fixture	4.5	0.0	4.5
<b>Street Side</b>	Lumens	15686.7	0.0	15686.7
	% Fixture	95.5	0.0	95.5
<b>Total</b>	Lumens	16431.8	0.0	16431.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	183.8	1.1
10°-20°	677.9	4.1
20°-30°	1313.8	8.0
30°-40°	2290.4	13.9
40°-50°	3354.5	20.4
50°-60°	3941.1	24.0
60°-70°	3327.9	20.3
70°-80°	1290.0	7.9
80°-90°	52.5	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°	16431.8	100.0
0°-180°	16431.8	100.0

**Coefficient of Utilization**

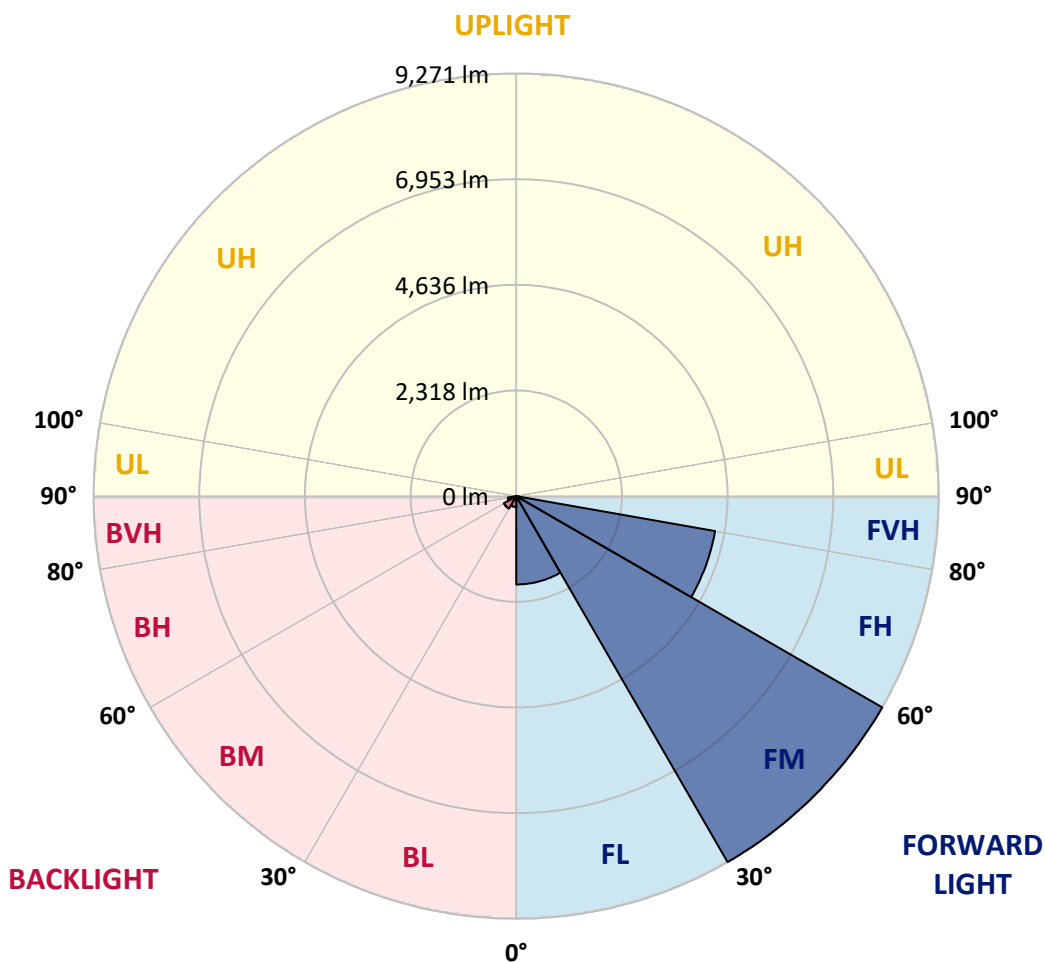


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1937.5	11.8			
FM (30°-60°)	9271.1	56.4			
FH (60°-80°)	4429.7	27.0			G2/5000
FVH (80°-90°)	48.4	0.3			G1/100
BL (0°-30°)	238.1	1.4	B1/500		
BM (30°-60°)	314.9	1.9	B1/1000		
BH (60°-80°)	188.2	1.1	B1/500		G1/500
BVH (80°-90°)	4.1	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°	1573.4	1573.4	1573.4	1573.4	1573.4	1573.4	1573.4	1573.4	1573.4	1573.4	1573.4
2.5°	2390.6	2345.3	2297.8	2284.2	2195.9	2096.3	2003.5	1913.0	1761.3	1763.5	1659.4
5°	3081.1	3024.5	2986.0	2977.0	2838.9	2666.8	2526.5	2270.6	2019.4	1962.8	1772.6
7.5°	3649.3	3631.2	3574.6	3527.1	3425.2	3214.7	3049.4	2682.7	2300.1	2236.7	1910.7
10°	3993.4	4020.6	4045.5	3984.4	3905.1	3753.5	3527.1	3130.9	2619.3	2540.0	2089.5
12.5°	4360.2	4314.9	4330.7	4380.5	4276.4	4242.4	3961.7	3592.7	2992.8	2841.1	2315.9
15°	4455.3	4473.4	4511.8	4656.7	4726.9	4629.6	4387.3	3966.3	3379.9	3169.4	2526.5
17.5°	4518.6	4509.6	4557.1	4774.5	4880.9	4973.7	4822.0	4382.8	3717.2	3529.3	2789.1
20°	4597.9	4548.1	4652.2	4790.3	5037.1	5231.7	5225.0	4801.6	4070.4	3871.2	3049.4
22.5°	4892.2	4853.7	4937.4	4951.0	5123.1	5394.7	5460.4	5143.5	4432.6	4188.1	3330.1
25°	5435.5	5505.7	5406.1	5320.0	5372.1	5551.0	5598.5	5446.8	4797.1	4573.0	3610.8
27.5°	6230.1	6221.1	6024.1	5913.2	5788.7	5766.0	5800.0	5729.8	5084.6	4923.9	3841.7
30°	7083.6	7008.9	6827.8	6560.6	6286.7	6116.9	6069.4	5996.9	5421.9	5188.7	4070.4
32.5°	7762.7	7803.5	7602.0	7253.4	6798.3	6569.7	6341.0	6261.8	5793.2	5587.2	4333.0
35°	8387.6	8333.2	8172.5	7878.2	7470.7	7101.7	6744.0	6574.2	6239.2	6035.4	4622.8
37.5°	8849.4	8917.3	8611.7	8331.0	7925.7	7620.1	7269.2	6897.9	6698.7	6427.1	4975.9
40°	9286.3	9179.9	8973.9	8715.8	8340.0	8106.8	7875.9	7296.4	7187.7	6836.8	5374.4
42.5°	9209.3	9216.1	9102.9	8894.7	8623.0	8489.4	8410.2	7780.8	7631.4	7407.3	5763.8
45°	8894.7	8921.8	8960.3	8858.4	8881.1	8747.5	8960.3	8337.7	8190.6	7952.9	6212.0
47.5°	8548.3	8593.6	8584.5	8770.1	8980.7	9026.0	9558.0	8955.8	8892.4	8761.1	6832.3
50°	7973.3	7991.4	8165.7	8503.0	8790.5	9263.7	10006.2	9630.4	9727.7	9469.7	7570.3
52.5°	6990.8	7056.4	7504.7	7986.9	8566.4	9383.6	10309.6	10633.3	10880.0	10615.2	8278.9
55°	5747.9	5838.5	6279.9	7183.2	8032.1	9202.5	10585.7	11163.0	11663.3	11262.6	8709.0
57.5°	4625.0	4634.1	5030.3	5963.0	7273.7	8847.1	10726.1	11421.1	12093.5	11772.0	9234.2
60°	3524.8	3488.6	3844.0	4652.2	5996.9	7973.3	10375.2	11552.4	12630.0	12444.4	9865.8
62.5°	2268.4	2211.8	2598.9	3386.7	4683.9	6517.6	9673.4	11554.7	13467.6	13397.4	10923.1
65°	1122.9	1084.4	1417.2	2075.9	3241.8	4985.0	8672.8	11511.7	14490.9	14536.2	11953.1
67.5°	593.1	606.7	713.1	1052.7	1869.9	3522.5	7165.1	11006.8	15013.8	15267.4	12202.1
68°	545.6	550.1	633.9	876.1	1623.2	3266.7	6807.4	10859.7	15054.6	15367.0	12064.0
70°	443.7	450.5	479.9	550.1	878.4	2125.8	5252.1	9610.0	14441.1	14726.3	10920.8
72.5°	353.2	373.5	391.6	421.1	516.2	1116.1	3266.7	7488.8	11930.5	11962.2	8500.7
75°	269.4	285.2	321.5	346.4	403.0	613.5	1555.3	4566.2	7828.4	7443.5	5007.6
77.5°	208.3	221.9	237.7	271.7	337.3	414.3	475.4	1937.9	3325.6	2737.0	1414.9
80°	124.5	133.6	185.6	212.8	294.3	280.7	187.9	538.8	674.6	532.0	258.1
82.5°	72.4	79.2	106.4	163.0	206.0	151.7	110.9	167.5	165.3	144.9	86.0
85°	2.3	4.5	58.9	97.3	72.4	40.7	67.9	70.2	58.9	54.3	38.5
87.5°	0.0	2.3	15.8	13.6	15.8	9.1	13.6	18.1	22.6	20.4	15.8
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°	1573.4	1573.4	1573.4	1573.4	1573.4	1573.4	1573.4	1573.4	1573.4	1573.4	1573.4
2.5°	1589.2	1539.4	1428.5	1344.7	1254.2	1199.8	1145.5	1111.5	1093.4	1082.1	1091.2
5°	1630.0	1525.8	1347.0	1188.5	1084.4	1014.2	944.0	907.8	873.8	855.7	867.1
7.5°	1720.5	1564.3	1267.8	1095.7	973.5	864.8	776.5	706.3	665.6	629.3	636.1
10°	1831.5	1587.0	1270.0	1041.4	864.8	692.7	568.2	479.9	430.1	398.4	396.2
12.5°	1944.6	1675.2	1279.1	987.0	731.2	520.7	373.5	307.9	278.5	262.6	262.6
15°	2116.7	1754.5	1256.4	887.4	554.6	339.6	255.8	233.2	221.9	208.3	210.5
17.5°	2266.1	1881.3	1245.1	738.0	380.3	244.5	212.8	187.9	176.6	163.0	163.0
20°	2467.6	1960.5	1184.0	570.5	262.6	203.7	172.1	149.4	131.3	120.0	122.2
22.5°	2651.0	2021.6	1075.3	389.4	201.5	160.7	126.8	104.1	88.3	74.7	77.0
25°	2850.2	2082.7	916.9	240.0	142.6	99.6	67.9	49.8	34.0	24.9	24.9
27.5°	2992.8	2100.8	710.8	142.6	86.0	45.3	15.8	2.3	0.0	0.0	0.0
30°	3137.7	2107.6	491.3	77.0	34.0	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	3303.0	2105.4	307.9	40.7	2.3	0.0	0.0	0.0	0.0	0.0	0.0
35°	3429.7	2066.9	147.2	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	3622.2	2010.3	45.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	3841.7	1908.4	9.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	4038.7	1804.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	4262.8	1675.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	4656.7	1620.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	5170.6	1577.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	5487.6	1451.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	5652.8	1319.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	5897.3	1256.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	6259.5	1261.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	6825.5	1324.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	7137.9	1261.0	9.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	6873.0	1009.7	43.0	11.3	2.3	0.0	0.0	0.0	0.0	0.0	0.0
68°	6644.4	928.2	43.0	11.3	2.3	0.0	0.0	0.0	0.0	0.0	0.0
70°	5492.1	604.4	40.7	11.3	4.5	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	4000.2	335.0	34.0	9.1	4.5	0.0	0.0	0.0	0.0	0.0	0.0
75°	2327.2	167.5	24.9	9.1	4.5	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	606.7	83.8	20.4	11.3	6.8	2.3	0.0	0.0	0.0	0.0	0.0
80°	120.0	54.3	18.1	13.6	9.1	4.5	0.0	0.0	0.0	0.0	0.0
82.5°	56.6	38.5	18.1	13.6	11.3	6.8	2.3	0.0	0.0	0.0	0.0
85°	29.4	18.1	18.1	13.6	13.6	9.1	4.5	0.0	0.0	0.0	0.0
87.5°	13.6	6.8	6.8	6.8	6.8	4.5	2.3	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)