

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: P482076

Luminaire Tested: **IFLD-M-SA4A-740-U-T2R-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P482076
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4A-740-U-T2R-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens with House Side Shield
Light Source: (64) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

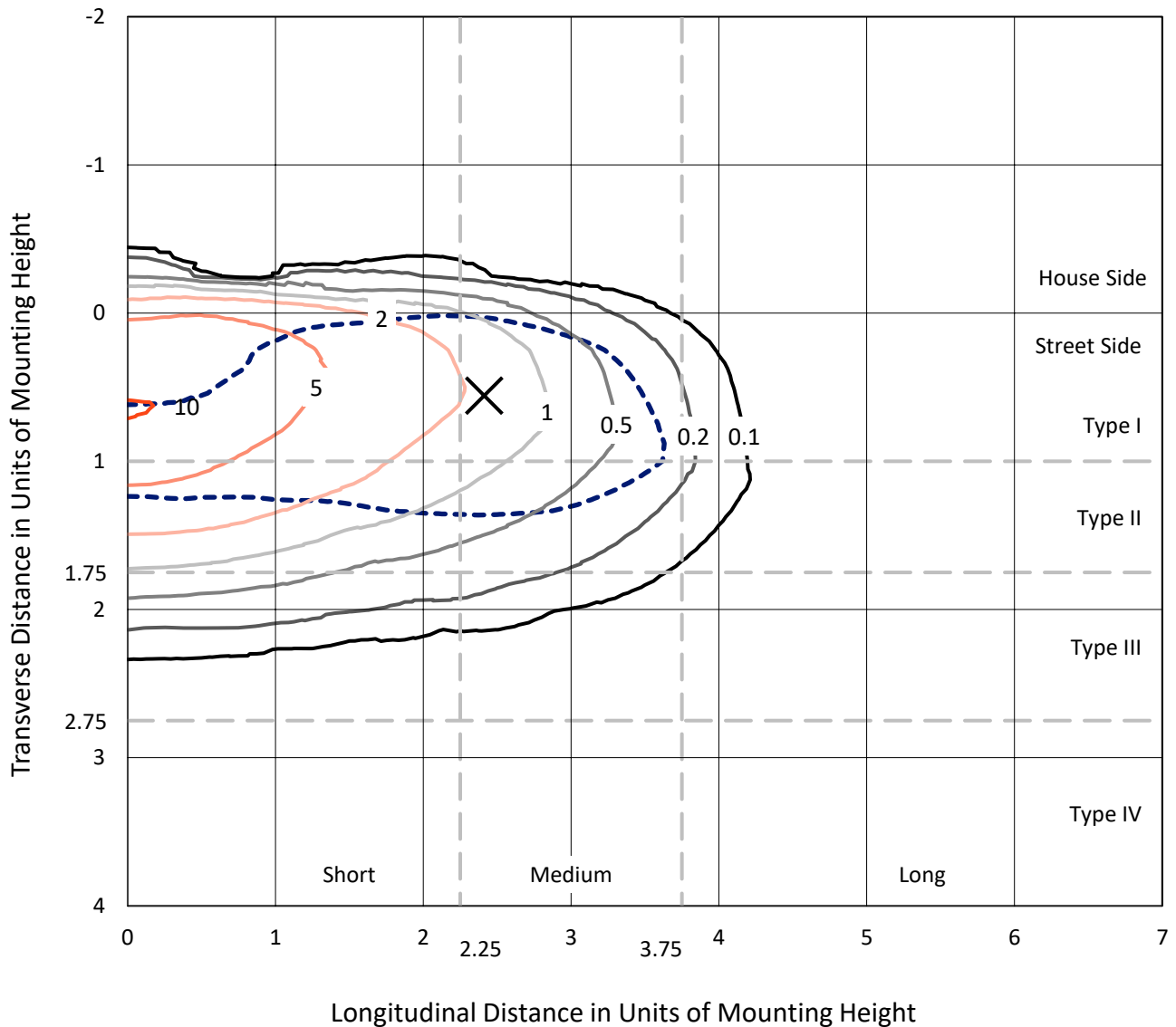
Lumens per Lamp: N/A
Luminaire Lumens: 14519.2 lumens
Efficiency: N/A
Efficacy: 112.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 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

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Iso-Footcandle Lines of Horizontal Illumination

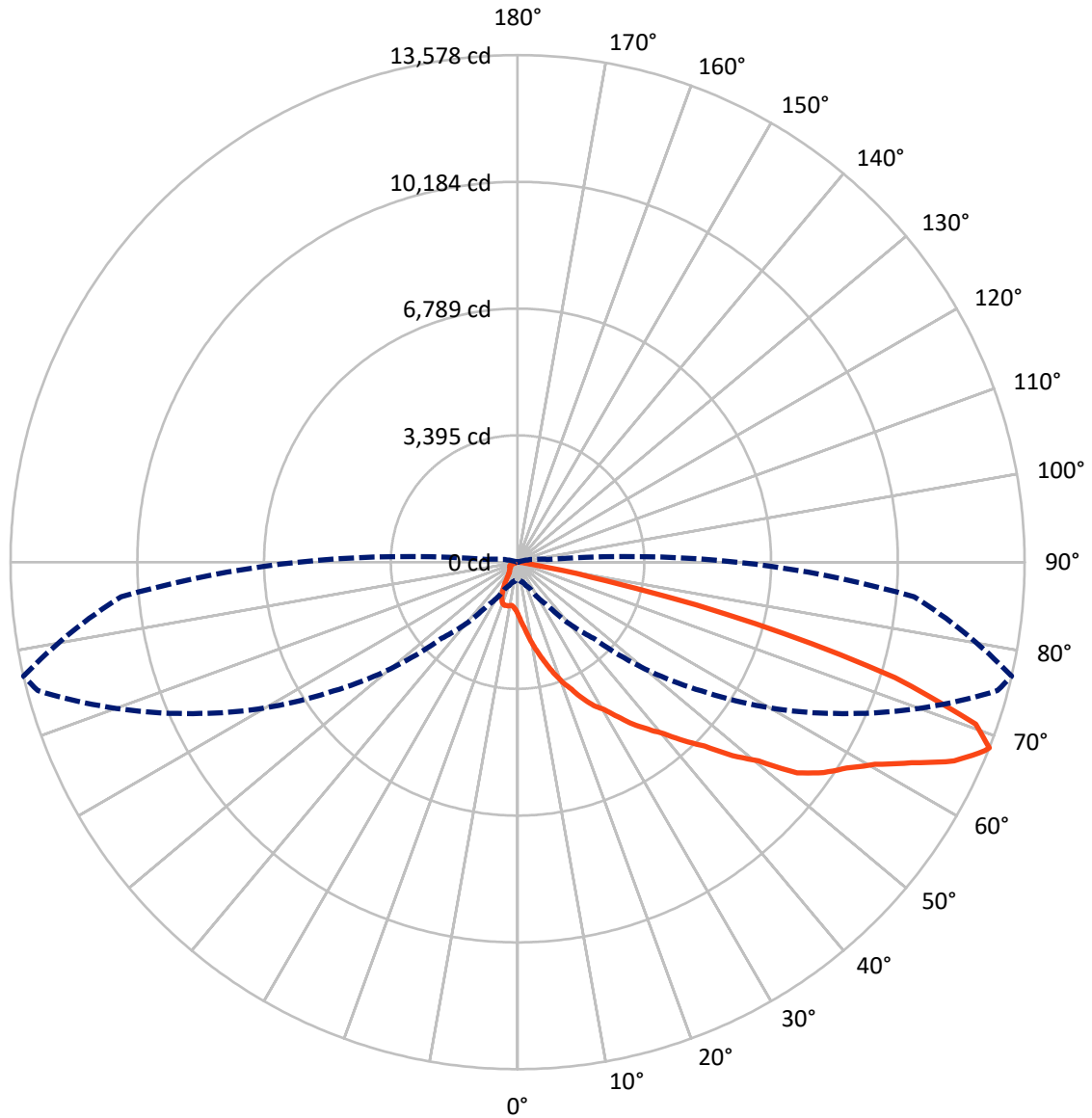
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 10.3 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
House Side	Lumens	658.4	0.0	658.4
	% Fixture	4.5	0.0	4.5
Street Side	Lumens	13860.8	0.0	13860.8
	% Fixture	95.5	0.0	95.5
Total	Lumens	14519.2	0.0	14519.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	162.4	1.1
10°-20°	599.0	4.1
20°-30°	1160.9	8.0
30°-40°	2023.8	13.9
40°-50°	2964.1	20.4
50°-60°	3482.3	24.0
60°-70°	2940.5	20.3
70°-80°	1139.8	7.9
80°-90°	46.3	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°	14519.2	100.0
0°-180°	14519.2	100.0

Coefficient of Utilization

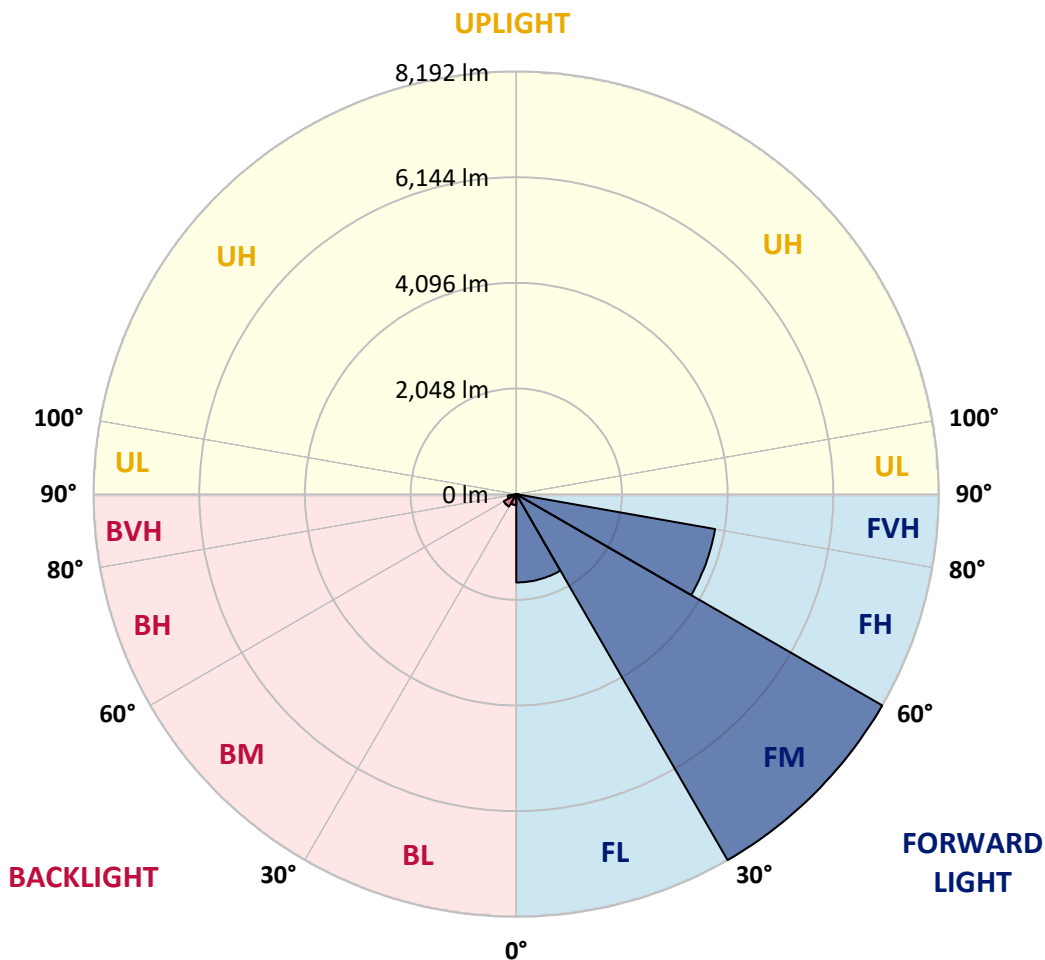


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1711.9	11.8			
FM (30°-60°)	8192.0	56.4			
FH (60°-80°)	3914.1	27.0			G2/5000
FVH (80°-90°)	42.8	0.3			G1/100
BL (0°-30°)	210.4	1.4	B1/500		
BM (30°-60°)	278.2	1.9	B1/1000		
BH (60°-80°)	166.2	1.1	B1/500		G1/500
BVH (80°-90°)	3.6	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°	1390.2	1390.2	1390.2	1390.2	1390.2	1390.2	1390.2	1390.2	1390.2	1390.2	1390.2
2.5°	2112.4	2072.3	2030.3	2018.3	1940.3	1852.3	1770.3	1690.3	1556.3	1558.3	1466.2
5°	2722.5	2672.4	2638.4	2630.4	2508.4	2356.4	2232.4	2006.3	1784.3	1734.3	1566.3
7.5°	3224.5	3208.5	3158.5	3116.5	3026.5	2840.5	2694.5	2370.4	2032.3	1976.3	1688.3
10°	3528.6	3552.6	3574.6	3520.6	3450.6	3316.6	3116.5	2766.5	2314.4	2244.4	1846.3
12.5°	3852.6	3812.6	3826.6	3870.7	3778.6	3748.6	3500.6	3174.5	2644.4	2510.4	2046.3
15°	3936.7	3952.7	3986.7	4114.7	4176.7	4090.7	3876.7	3504.6	2986.5	2800.5	2232.4
17.5°	3992.7	3984.7	4026.7	4218.7	4312.7	4394.7	4260.7	3872.7	3284.6	3118.5	2464.4
20°	4062.7	4018.7	4110.7	4232.7	4450.7	4622.8	4616.8	4242.7	3596.6	3420.6	2694.5
22.5°	4322.7	4288.7	4362.7	4374.7	4526.8	4766.8	4824.8	4544.8	3916.7	3700.6	2942.5
25°	4802.8	4864.8	4776.8	4700.8	4746.8	4904.8	4946.8	4812.8	4238.7	4040.7	3190.5
27.5°	5504.9	5496.9	5322.9	5224.9	5114.9	5094.9	5124.9	5062.9	4492.8	4350.7	3394.6
30°	6259.1	6193.0	6033.0	5797.0	5554.9	5404.9	5362.9	5298.9	4790.8	4584.8	3596.6
32.5°	6859.2	6895.2	6717.1	6409.1	6007.0	5805.0	5602.9	5532.9	5118.9	4936.8	3828.6
35°	7411.2	7363.2	7221.2	6961.2	6601.1	6275.1	5959.0	5809.0	5512.9	5332.9	4084.7
37.5°	7819.3	7879.3	7609.3	7361.2	7003.2	6733.1	6423.1	6095.0	5919.0	5679.0	4396.7
40°	8205.4	8111.4	7929.3	7701.3	7369.2	7163.2	6959.2	6447.1	6351.1	6041.0	4748.8
42.5°	8137.4	8143.4	8043.4	7859.3	7619.3	7501.3	7431.2	6875.2	6743.1	6545.1	5092.9
45°	7859.3	7883.3	7917.3	7827.3	7847.3	7729.3	7917.3	7367.2	7237.2	7027.2	5488.9
47.5°	7553.3	7593.3	7585.3	7749.3	7935.3	7975.3	8445.4	7913.3	7857.3	7741.3	6037.0
50°	7045.2	7061.2	7215.2	7513.3	7767.3	8185.4	8841.5	8509.4	8595.4	8367.4	6689.1
52.5°	6177.0	6235.0	6631.1	7057.2	7569.3	8291.4	9109.5	9395.6	9613.6	9379.6	7315.2
55°	5078.9	5158.9	5548.9	6347.1	7097.2	8131.4	9353.6	9863.7	10305.7	9951.7	7695.3
57.5°	4086.7	4094.7	4444.7	5268.9	6427.1	7817.3	9477.6	10091.7	10685.8	10401.7	8159.4
60°	3114.5	3082.5	3396.6	4110.7	5298.9	7045.2	9167.5	10207.7	11159.9	10995.8	8717.5
62.5°	2004.3	1954.3	2296.4	2992.5	4138.7	5759.0	8547.4	10209.7	11900.0	11838.0	9651.6
65°	992.2	958.2	1252.2	1834.3	2864.5	4404.7	7663.3	10171.7	12804.2	12844.2	10561.8
67.5°	524.1	536.1	630.1	930.2	1652.3	3112.5	6331.1	9725.6	13266.2	13490.3	10781.8
68°	482.1	486.1	560.1	774.1	1434.2	2886.5	6015.0	9595.6	13302.2	13578.3	10659.8
70°	392.1	398.1	424.1	486.1	776.1	1878.3	4640.8	8491.4	12760.1	13012.2	9649.6
72.5°	312.1	330.1	346.1	372.1	456.1	986.2	2886.5	6617.1	10541.8	10569.8	7511.3
75°	238.0	252.0	284.0	306.1	356.1	542.1	1374.2	4034.7	6917.2	6577.1	4424.7
77.5°	184.0	196.0	210.0	240.0	298.1	366.1	420.1	1712.3	2938.5	2418.4	1250.2
80°	110.0	118.0	164.0	188.0	260.0	248.0	166.0	476.1	596.1	470.1	228.0
82.5°	64.0	70.0	94.0	144.0	182.0	134.0	98.0	148.0	146.0	128.0	76.0
85°	2.0	4.0	52.0	86.0	64.0	36.0	60.0	62.0	52.0	48.0	34.0
87.5°	0.0	2.0	14.0	12.0	14.0	8.0	12.0	16.0	20.0	18.0	14.0
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°	1390.2	1390.2	1390.2	1390.2	1390.2	1390.2	1390.2	1390.2	1390.2	1390.2	1390.2
2.5°	1404.2	1360.2	1262.2	1188.2	1108.2	1060.2	1012.2	982.2	966.2	956.2	964.2
5°	1440.2	1348.2	1190.2	1050.2	958.2	896.2	834.1	802.1	772.1	756.1	766.1
7.5°	1520.3	1382.2	1120.2	968.2	860.1	764.1	686.1	624.1	588.1	556.1	562.1
10°	1618.3	1402.2	1122.2	920.2	764.1	612.1	502.1	424.1	380.1	352.1	350.1
12.5°	1718.3	1480.2	1130.2	872.1	646.1	460.1	330.1	272.0	246.0	232.0	232.0
15°	1870.3	1550.3	1110.2	784.1	490.1	300.1	226.0	206.0	196.0	184.0	186.0
17.5°	2002.3	1662.3	1100.2	652.1	336.1	216.0	188.0	166.0	156.0	144.0	144.0
20°	2180.4	1732.3	1046.2	504.1	232.0	180.0	152.0	132.0	116.0	106.0	108.0
22.5°	2342.4	1786.3	950.2	344.1	178.0	142.0	112.0	92.0	78.0	66.0	68.0
25°	2518.4	1840.3	810.1	212.0	126.0	88.0	60.0	44.0	30.0	22.0	22.0
27.5°	2644.4	1856.3	628.1	126.0	76.0	40.0	14.0	2.0	0.0	0.0	0.0
30°	2772.5	1862.3	434.1	68.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	2918.5	1860.3	272.0	36.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	3030.5	1826.3	130.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	3200.5	1776.3	40.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	3394.6	1686.3	8.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	3568.6	1594.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	3766.6	1480.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	4114.7	1432.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	4568.8	1394.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	4848.8	1282.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	4994.8	1166.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	5210.9	1110.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	5530.9	1114.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	6031.0	1170.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	6307.1	1114.2	8.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	6073.0	892.1	38.0	10.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
68°	5871.0	820.1	38.0	10.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	4852.8	534.1	36.0	10.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	3534.6	296.0	30.0	8.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	2056.3	148.0	22.0	8.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	536.1	74.0	18.0	10.0	6.0	2.0	0.0	0.0	0.0	0.0	0.0
80°	106.0	48.0	16.0	12.0	8.0	4.0	0.0	0.0	0.0	0.0	0.0
82.5°	50.0	34.0	16.0	12.0	10.0	6.0	2.0	0.0	0.0	0.0	0.0
85°	26.0	16.0	16.0	12.0	12.0	8.0	4.0	0.0	0.0	0.0	0.0
87.5°	12.0	6.0	6.0	6.0	6.0	4.0	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)