

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: P482039

Luminaire Tested: **IFLD-M-SA4C-735-U-T2R-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P482039  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4C-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**

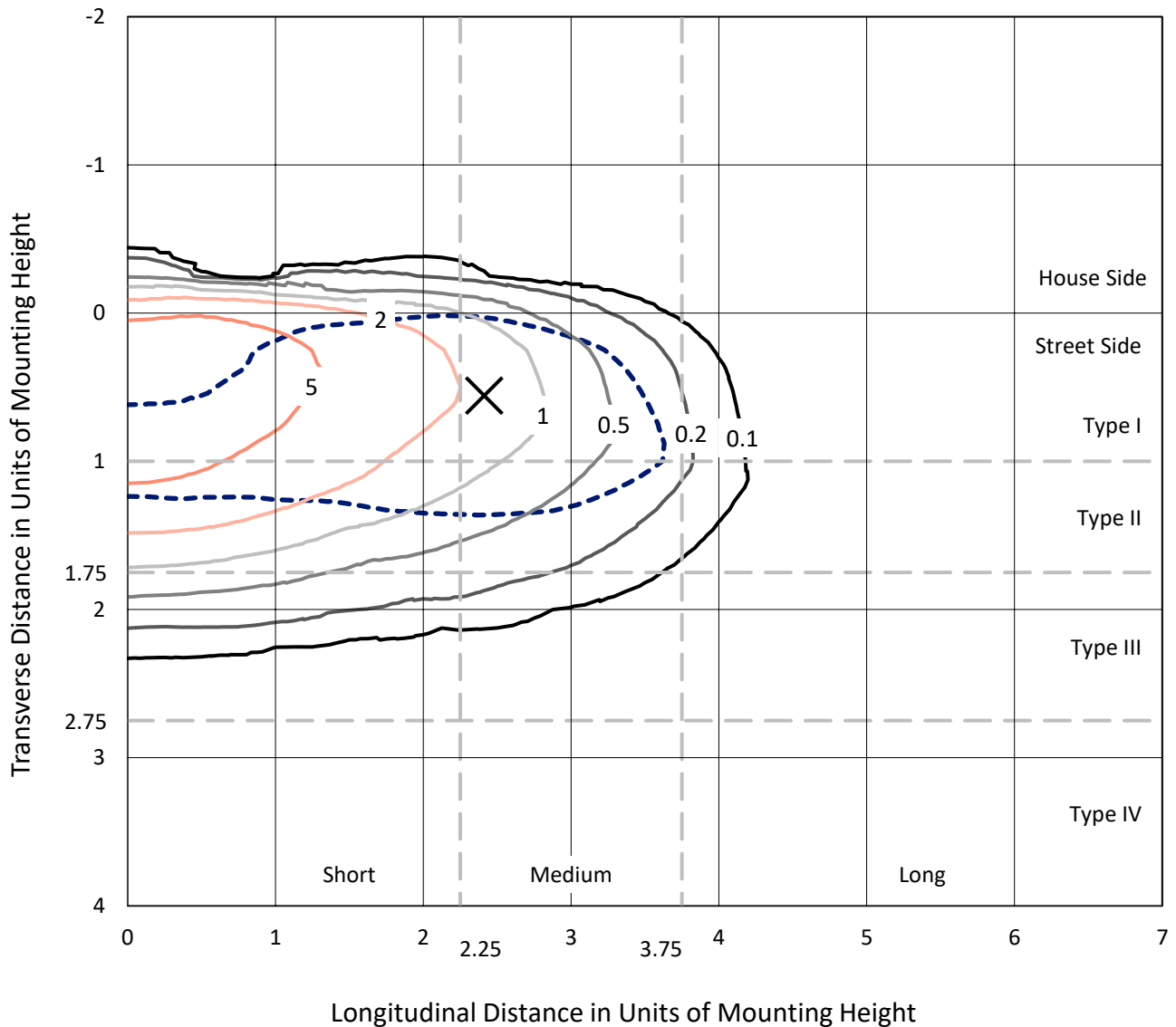
Lumens per Lamp: N/A  
Luminaire Lumens: 22047 lumens  
Efficiency: N/A  
Efficacy: 101.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G3

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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 CATALOG NUMBER: IFLD-M-SA4C-735-U-T2R-HSS

### Iso-Footcandle Lines of Horizontal Illumination

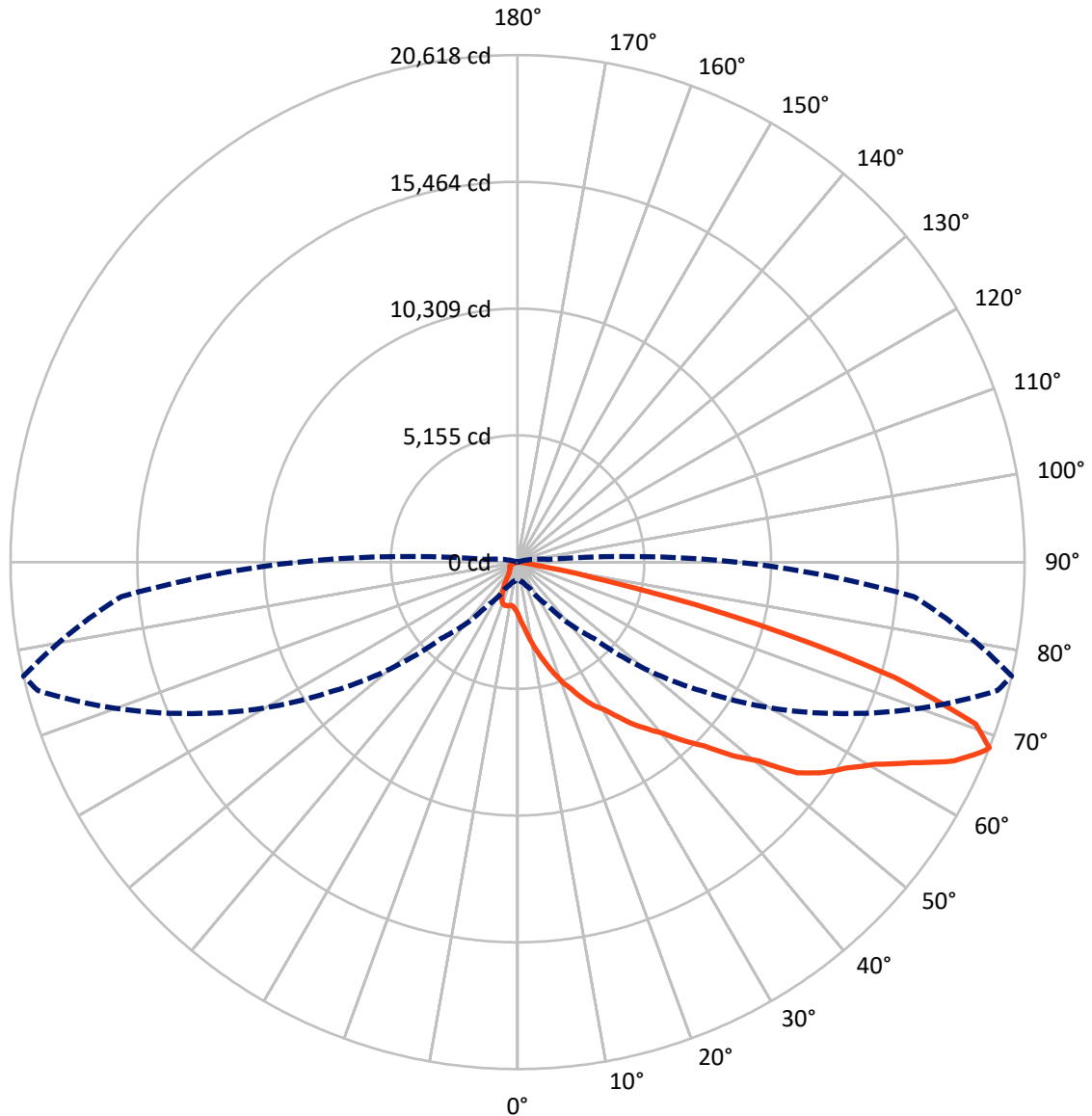
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10 fc  
 Type II - Medium - N/A

REPORT NUMBER: P482039  
CATALOG NUMBER: IFLD-M-SA4C-735-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	999.8	0.0	999.8
	% Fixture	4.5	0.0	4.5
<b>Street Side</b>	Lumens	21047.2	0.0	21047.2
	% Fixture	95.5	0.0	95.5
<b>Total</b>	Lumens	22047.0	0.0	22047.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	246.6	1.1
10°-20°	909.6	4.1
20°-30°	1762.8	8.0
30°-40°	3073.1	13.9
40°-50°	4500.9	20.4
50°-60°	5287.8	24.0
60°-70°	4465.1	20.3
70°-80°	1730.8	7.9
80°-90°	70.4	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°	22047.0	100.0
0°-180°	22047.0	100.0

**Coefficient of Utilization**

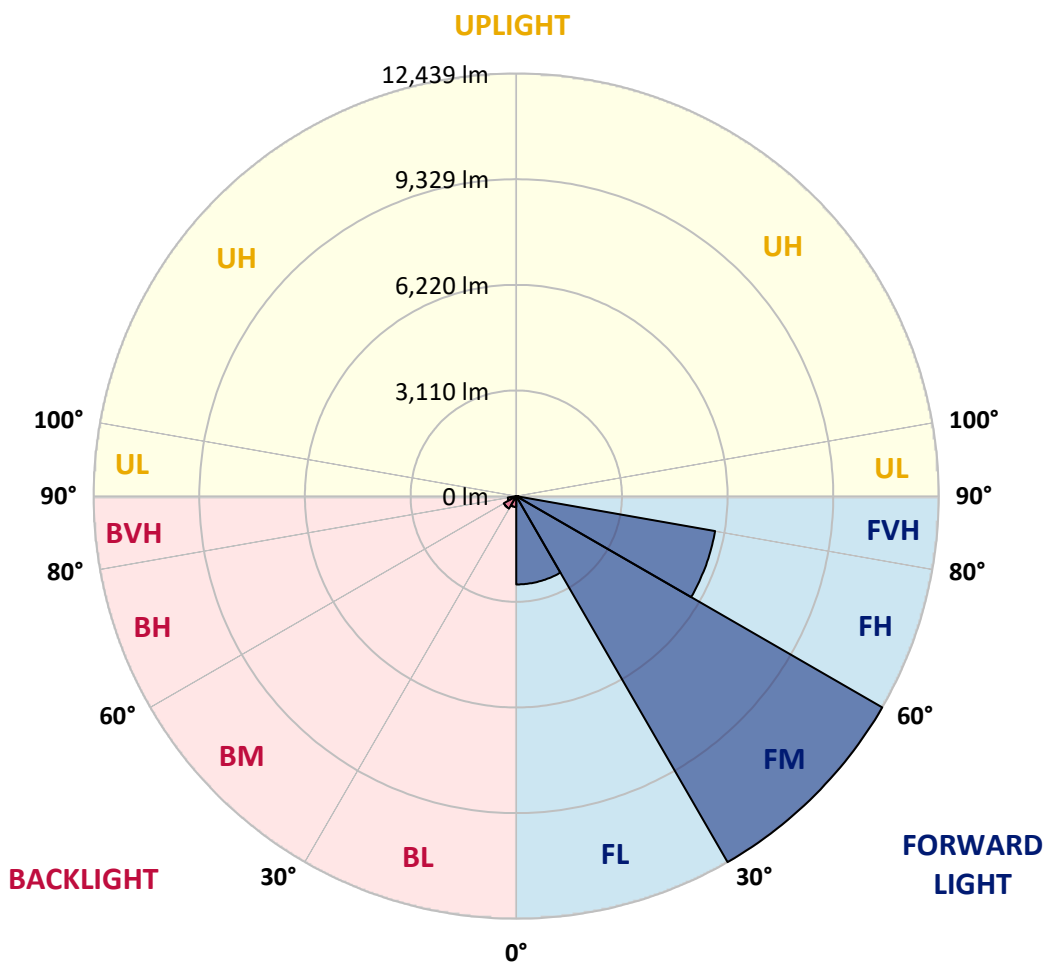


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2599.5	11.8			
FM (30°-60°)	12439.3	56.4			
FH (60°-80°)	5943.4	27.0			G3/7500
FVH (80°-90°)	64.9	0.3			G1/100
BL (0°-30°)	319.4	1.4	B1/500		
BM (30°-60°)	422.5	1.9	B1/1000		
BH (60°-80°)	252.4	1.1	B1/500		G1/500
BVH (80°-90°)	5.4	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-G3**  
 Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	2111.0	2111.0	2111.0	2111.0	2111.0	2111.0	2111.0	2111.0	2111.0	2111.0	2111.0
2.5°	3207.6	3146.8	3083.0	3064.8	2946.3	2812.7	2688.1	2566.6	2363.1	2366.2	2226.5
5°	4134.0	4058.0	4006.4	3994.3	3809.0	3578.1	3389.8	3046.6	2709.4	2633.5	2378.3
7.5°	4896.4	4872.1	4796.1	4732.4	4595.7	4313.2	4091.4	3599.4	3086.1	3001.0	2563.6
10°	5358.1	5394.5	5427.9	5345.9	5239.6	5036.1	4732.4	4200.8	3514.3	3408.0	2803.6
12.5°	5850.1	5789.4	5810.6	5877.5	5737.7	5692.2	5315.5	4820.4	4015.5	3812.0	3107.3
15°	5977.7	6002.0	6053.6	6248.0	6342.2	6211.6	5886.6	5321.6	4534.9	4252.4	3389.8
17.5°	6062.8	6050.6	6114.4	6406.0	6548.7	6673.3	6469.8	5880.5	4987.5	4735.4	3742.1
20°	6169.1	6102.2	6242.0	6427.3	6758.3	7019.6	7010.4	6442.4	5461.3	5194.0	4091.4
22.5°	6563.9	6512.3	6624.7	6642.9	6873.8	7238.3	7326.3	6901.1	5947.3	5619.3	4468.1
25°	7292.9	7387.1	7253.4	7138.0	7207.9	7447.8	7511.6	7308.1	6436.4	6135.7	4844.7
27.5°	8359.1	8346.9	8082.7	7933.8	7766.8	7736.4	7782.0	7687.8	6822.1	6606.5	5154.6
30°	9504.2	9404.0	9161.0	8802.5	8435.0	8207.2	8143.4	8046.2	7274.7	6961.8	5461.3
32.5°	10415.4	10470.1	10199.8	9732.0	9121.5	8814.7	8507.9	8401.6	7772.8	7496.4	5813.7
35°	11253.8	11180.9	10965.2	10570.3	10023.6	9528.5	9048.6	8820.8	8371.2	8097.9	6202.5
37.5°	11873.4	11964.5	11554.5	11177.8	10634.1	10224.1	9753.3	9255.1	8987.8	8623.3	6676.3
40°	12459.6	12316.9	12040.5	11694.2	11190.0	10877.1	10567.3	9789.7	9643.9	9173.1	7210.9
42.5°	12356.4	12365.5	12213.6	11934.2	11569.7	11390.5	11284.1	10439.7	10239.3	9938.5	7733.4
45°	11934.2	11970.6	12022.2	11885.6	11915.9	11736.7	12022.2	11186.9	10989.5	10670.6	8334.8
47.5°	11469.4	11530.2	11518.0	11767.1	12049.6	12110.3	12824.1	12016.2	11931.1	11754.9	9167.0
50°	10697.9	10722.2	10956.1	11408.7	11794.4	12429.3	13425.5	12921.3	13051.9	12705.7	10157.2
52.5°	9379.7	9467.7	10069.2	10716.1	11493.7	12590.2	13832.6	14266.9	14598.0	14242.6	11108.0
55°	7712.1	7833.6	8425.9	9637.8	10776.9	12347.2	14203.1	14977.7	15649.0	15111.3	11685.1
57.5°	6205.5	6217.7	6749.2	8000.7	9759.3	11870.4	14391.5	15324.0	16226.1	15794.8	12389.8
60°	4729.3	4680.7	5157.6	6242.0	8046.2	10697.9	13920.6	15500.1	16946.0	16696.9	13237.2
62.5°	3043.5	2967.6	3487.0	4544.0	6284.5	8744.8	12979.0	15503.2	18069.8	17975.6	14655.7
65°	1506.6	1454.9	1901.4	2785.3	4349.6	6688.5	11636.5	15445.5	19442.7	19503.5	16037.8
67.5°	795.8	814.0	956.8	1412.4	2508.9	4726.3	9613.5	14768.1	20144.4	20484.6	16371.9
68°	732.0	738.1	850.5	1175.5	2177.9	4383.0	9133.6	14570.7	20199.1	20618.2	16186.6
70°	595.3	604.5	643.9	738.1	1178.5	2852.2	7046.9	12894.0	19375.9	19758.6	14652.7
72.5°	473.8	501.2	525.5	565.0	692.5	1497.5	4383.0	10047.9	16007.4	16049.9	11405.6
75°	361.5	382.7	431.3	464.7	540.7	823.1	2086.7	6126.5	10503.5	9987.1	6718.8
77.5°	279.4	297.7	318.9	364.5	452.6	555.9	637.9	2600.1	4462.0	3672.3	1898.4
80°	167.1	179.2	249.1	285.5	394.9	376.6	252.1	722.9	905.2	713.8	346.3
82.5°	97.2	106.3	142.8	218.7	276.4	203.5	148.8	224.8	221.7	194.4	115.4
85°	3.0	6.1	79.0	130.6	97.2	54.7	91.1	94.2	79.0	72.9	51.6
87.5°	0.0	3.0	21.3	18.2	21.3	12.1	18.2	24.3	30.4	27.3	21.3
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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CATALOG NUMBER: IFLD-M-SA4C-735-U-T2R-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2111.0	2111.0	2111.0	2111.0	2111.0	2111.0	2111.0	2111.0	2111.0	2111.0	2111.0
2.5°	2132.3	2065.5	1916.6	1804.2	1682.7	1609.9	1537.0	1491.4	1467.1	1451.9	1464.1
5°	2187.0	2047.2	1807.3	1594.7	1454.9	1360.8	1266.6	1218.0	1172.5	1148.2	1163.3
7.5°	2308.5	2098.9	1701.0	1470.1	1306.1	1160.3	1041.8	947.7	893.0	844.4	853.5
10°	2457.3	2129.3	1704.0	1397.2	1160.3	929.5	762.4	643.9	577.1	534.6	531.6
12.5°	2609.2	2247.7	1716.2	1324.3	981.1	698.6	501.2	413.1	373.6	352.3	352.3
15°	2840.0	2354.0	1685.8	1190.7	744.2	455.6	343.2	312.9	297.7	279.4	282.5
17.5°	3040.5	2524.1	1670.6	990.2	510.3	328.0	285.5	252.1	236.9	218.7	218.7
20°	3310.8	2630.4	1588.6	765.4	352.3	273.4	230.8	200.5	176.2	161.0	164.0
22.5°	3556.9	2712.4	1442.8	522.4	270.3	215.7	170.1	139.7	118.5	100.2	103.3
25°	3824.2	2794.5	1230.2	322.0	191.4	133.6	91.1	66.8	45.6	33.4	33.4
27.5°	4015.5	2818.8	953.8	191.4	115.4	60.7	21.3	3.0	0.0	0.0	0.0
30°	4209.9	2827.9	659.1	103.3	45.6	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	4431.6	2824.8	413.1	54.7	3.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	4601.7	2773.2	197.4	6.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	4859.9	2697.3	60.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	5154.6	2560.6	12.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	5418.8	2420.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	5719.5	2247.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	6248.0	2174.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	6937.5	2117.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	7362.8	1947.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	7584.5	1770.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	7912.6	1685.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	8398.6	1691.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	9157.9	1776.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	9577.1	1691.9	12.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	9221.7	1354.7	57.7	15.2	3.0	0.0	0.0	0.0	0.0	0.0	0.0
68°	8914.9	1245.4	57.7	15.2	3.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	7368.9	811.0	54.7	15.2	6.1	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	5367.2	449.5	45.6	12.1	6.1	0.0	0.0	0.0	0.0	0.0	0.0
75°	3122.5	224.8	33.4	12.1	6.1	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	814.0	112.4	27.3	15.2	9.1	3.0	0.0	0.0	0.0	0.0	0.0
80°	161.0	72.9	24.3	18.2	12.1	6.1	0.0	0.0	0.0	0.0	0.0
82.5°	75.9	51.6	24.3	18.2	15.2	9.1	3.0	0.0	0.0	0.0	0.0
85°	39.5	24.3	24.3	18.2	18.2	12.1	6.1	0.0	0.0	0.0	0.0
87.5°	18.2	9.1	9.1	9.1	9.1	6.1	3.0	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)