

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: P481693

Luminaire Tested: **IFLD-L-SA7C-740-U-T2-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481693
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7C-740-U-T2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens with House Side Shield
Light Source: (112) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

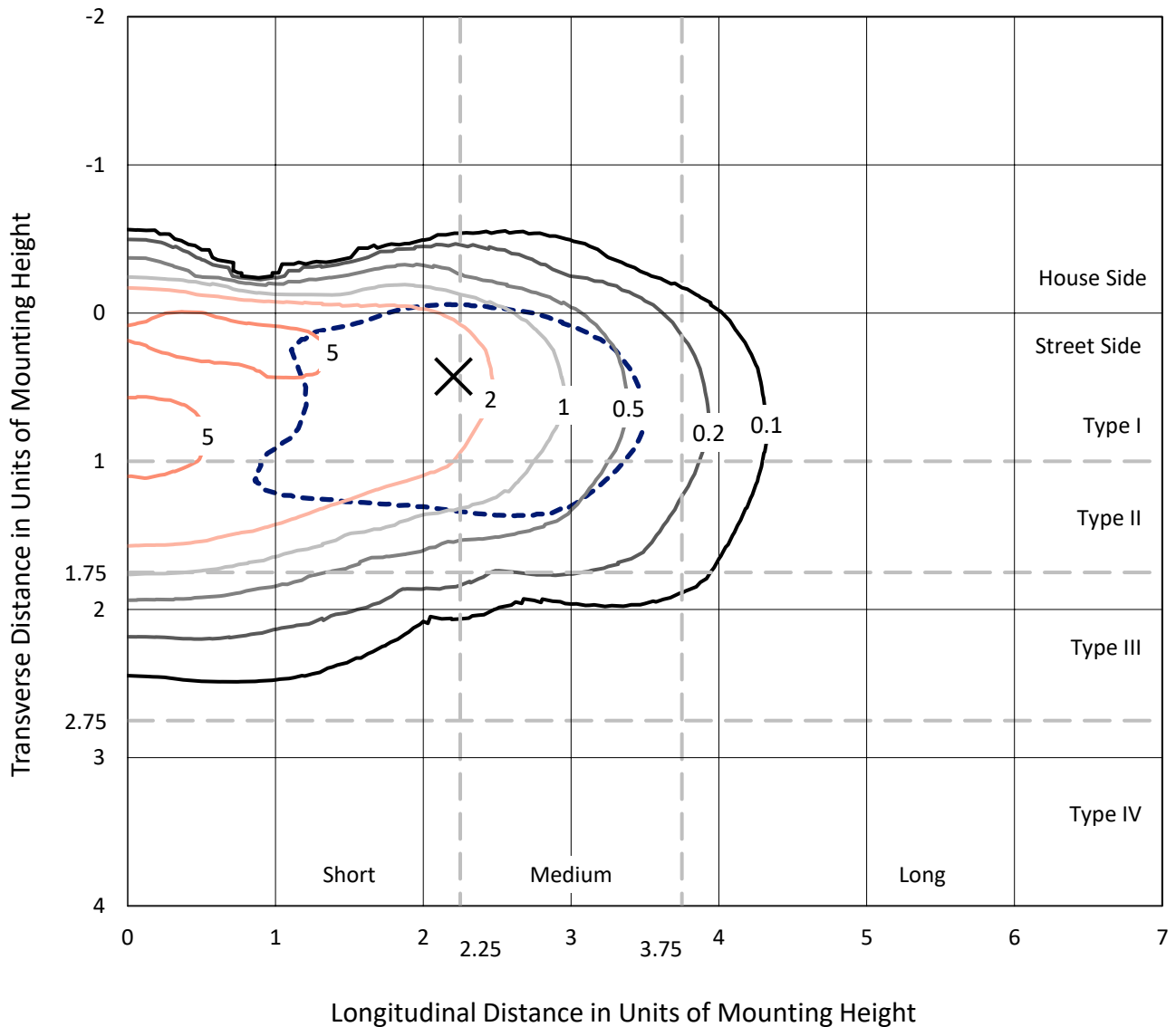
Lumens per Lamp: N/A
Luminaire Lumens: 31924.3 lumens
Efficiency: N/A
Efficacy: 86.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 369
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: P481693
 CATALOG NUMBER: IFLD-L-SA7C-740-U-T2-HSS

Iso-Footcandle Lines of Horizontal Illumination

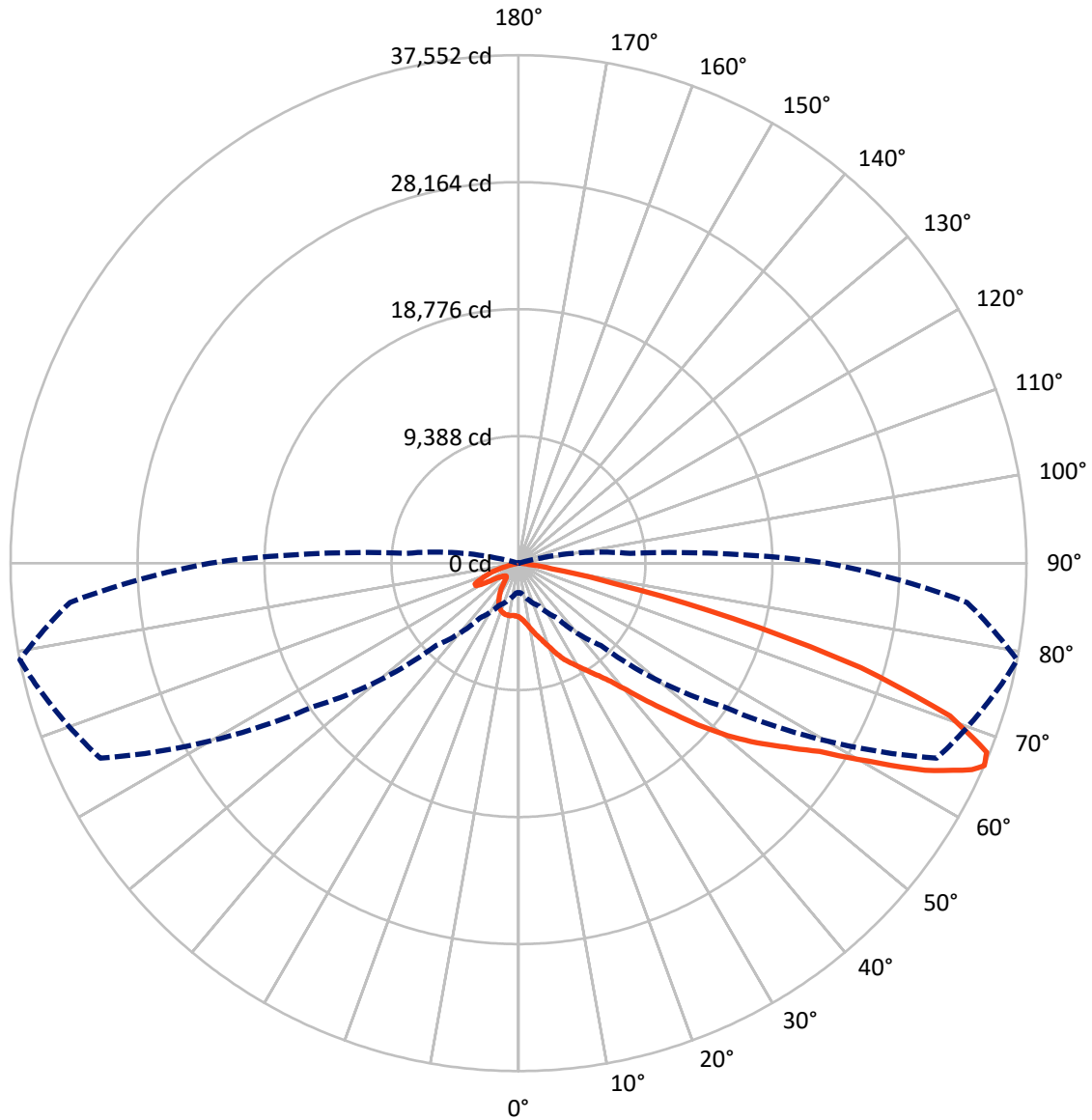
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.6 fc
 Type II - Short - N/A

REPORT NUMBER: P481693
CATALOG NUMBER: IFLD-L-SA7C-740-U-T2-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

REPORT NUMBER: P481693
 CATALOG NUMBER: IFLD-L-SA7C-740-U-T2-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2397.1	0.0	2397.1
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	29527.3	0.0	29527.3
	% Fixture	92.5	0.0	92.5
Total	Lumens	31924.3	0.0	31924.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	375.6	1.2
10°-20°	1033.8	3.2
20°-30°	1717.3	5.4
30°-40°	2949.7	9.2
40°-50°	5343.8	16.7
50°-60°	8447.0	26.5
60°-70°	8595.4	26.9
70°-80°	3277.9	10.3
80°-90°	183.8	0.6
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°	31924.3	100.0
0°-180°	31924.3	100.0

Coefficient of Utilization



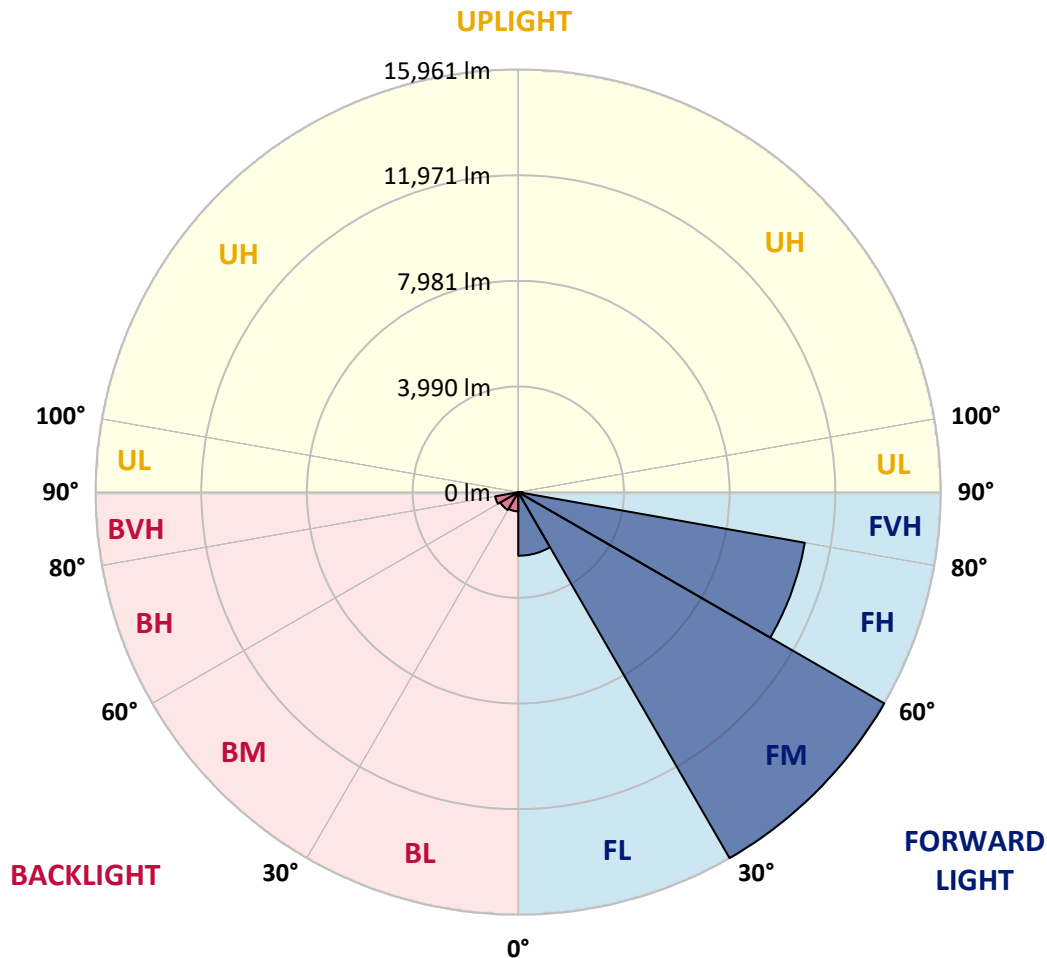
REPORT NUMBER: P481693
 CATALOG NUMBER: IFLD-L-SA7C-740-U-T2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2401.8	7.5			
FM (30°-60°)	15961.4	50.0			
FH (60°-80°)	10989.7	34.4			G4/12000
FVH (80°-90°)	174.4	0.5			G2/225
BL (0°-30°)	724.9	2.3	B2/1000		
BM (30°-60°)	779.1	2.4	B1/1000		
BH (60°-80°)	883.7	2.8	B2/1000		G2/1000
BVH (80°-90°)	9.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type II Short





REPORT NUMBER: P481693

CATALOG NUMBER: IFLD-L-SA7C-740-U-T2-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	3971.8	3971.8	3971.8	3971.8	3971.8	3971.8	3971.8	3971.8	3971.8	3971.8	3971.8
2.5°	4498.4	4493.5	4473.8	4439.3	4395.0	4380.3	4316.3	4227.7	4178.5	4124.3	4099.7
5°	4808.5	4783.8	4842.9	4818.3	4828.1	4710.0	4631.3	4567.3	4380.3	4306.4	4188.3
7.5°	4877.4	4902.0	4897.0	4936.4	4975.8	5020.1	4965.9	4872.4	4685.4	4577.1	4449.2
10°	4877.4	4867.5	4906.9	4961.0	5074.2	5172.7	5320.3	5197.3	5054.5	4926.6	4695.3
12.5°	4788.8	4774.0	4813.4	4926.6	5128.4	5330.1	5492.6	5610.7	5408.9	5305.5	5005.3
15°	4518.1	4503.3	4665.7	4867.5	5133.3	5463.0	5802.6	5994.6	5856.8	5694.3	5359.7
17.5°	4183.4	4203.1	4375.3	4710.0	5133.3	5527.0	5960.1	6378.5	6358.8	6152.1	5802.6
20°	4070.2	4085.0	4257.2	4498.4	4980.7	5571.3	6206.2	6796.8	6914.9	6668.8	6211.1
22.5°	4286.8	4272.0	4286.8	4434.4	4877.4	5531.9	6368.6	7274.2	7485.8	7293.9	6747.6
25°	5025.0	5015.2	4892.1	4665.7	4818.3	5443.3	6452.3	7589.2	8076.4	7899.2	7180.7
27.5°	6107.8	6068.4	5876.5	5404.0	5093.9	5497.5	6590.1	7894.3	8593.2	8391.4	7569.5
30°	7269.3	7175.8	6924.8	6334.2	5807.5	5699.3	6668.8	8120.7	9169.0	8913.1	7909.1
32.5°	8071.5	8194.5	8115.8	7515.4	6708.2	6166.8	6796.8	8406.2	9700.6	9533.2	8489.8
35°	9311.8	9454.5	9124.7	8593.2	7781.1	6910.0	7067.5	8637.5	10517.6	10237.0	9031.2
37.5°	10876.8	10985.1	10748.9	9739.9	8883.6	7825.4	7623.6	9119.8	11221.4	11088.5	9725.2
40°	11664.3	12186.0	11851.3	10940.8	10020.5	9105.1	8544.0	9685.8	12446.9	12338.6	10684.9
42.5°	12752.0	13012.8	12840.6	12166.3	11206.6	10473.3	9680.9	10788.3	13933.2	13933.2	11984.2
45°	13903.7	13913.5	13903.7	13352.4	12501.0	12122.0	11216.4	12171.2	15532.7	15709.9	13539.5
47.5°	14848.6	15143.9	15119.3	14789.6	14130.1	13987.3	12752.0	13746.2	17540.8	17850.8	15055.3
50°	15335.9	15665.6	15764.0	15936.3	15906.8	16207.0	14430.3	15572.1	19273.2	20036.0	17004.3
52.5°	15203.0	15227.6	15832.9	16512.1	17594.9	18436.5	16453.1	17644.1	21300.9	22053.9	18510.3
55°	14115.3	14021.8	15267.0	16044.6	18283.9	19799.8	19253.5	20228.0	22880.8	24027.5	20065.6
57.5°	11728.3	11752.9	12904.6	14484.4	17772.1	20341.2	22245.9	23604.2	25095.5	26252.1	22250.8
60°	8096.1	8066.6	9356.1	11182.0	14765.0	19332.2	23968.4	27979.6	28058.3	29697.2	26173.3
62.5°	4552.5	4562.4	5541.8	7101.9	10330.5	15798.5	23884.8	32625.6	32290.9	33728.1	30632.4
65°	2578.9	2642.9	3317.2	4208.0	6186.5	10606.2	20543.0	34476.2	35554.0	36833.6	33339.3
66°	2180.3	2224.6	2800.4	3474.7	4936.4	8603.0	18490.6	34116.9	36577.7	37552.2	33285.1
67.5°	1688.1	1747.2	2229.5	2756.1	3622.3	5955.2	14883.1	32330.3	36764.7	37335.6	32345.1
70°	1156.6	1196.0	1565.1	2091.7	2475.6	3046.5	8898.3	26729.5	33358.9	33841.3	28112.5
72.5°	812.1	831.8	1097.5	1584.8	1904.7	1742.3	4414.7	19017.3	25528.6	26468.6	21866.9
75°	585.7	605.4	753.0	1136.9	1486.3	1141.8	2022.8	12146.6	15655.8	16394.0	13170.3
77.5°	423.3	447.9	511.9	733.3	1077.8	802.2	994.2	6344.0	7382.5	7254.5	5664.8
80°	255.9	280.5	379.0	472.5	787.5	566.0	546.3	2647.8	2618.3	2485.4	1781.6
82.5°	118.1	137.8	201.8	319.9	551.2	393.7	260.8	945.0	826.8	757.9	502.0
85°	34.5	44.3	118.1	241.2	280.5	191.9	157.5	324.8	339.6	290.4	167.3
87.5°	0.0	4.9	54.1	59.1	83.7	64.0	59.1	83.7	157.5	128.0	54.1
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: P481693
 CATALOG NUMBER: IFLD-L-SA7C-740-U-T2-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3971.8	3971.8	3971.8	3971.8	3971.8	3971.8	3971.8	3971.8	3971.8	3971.8	3971.8
2.5°	4011.1	3976.7	3893.0	3765.1	3651.9	3592.8	3509.1	3435.3	3395.9	3391.0	3386.1
5°	4109.6	4016.1	3814.3	3583.0	3410.7	3223.7	3095.7	3002.2	2913.6	2829.9	2879.2
7.5°	4242.5	4094.8	3765.1	3464.8	3090.8	2849.6	2623.2	2490.4	2411.6	2337.8	2327.9
10°	4449.2	4262.1	3730.6	3189.2	2761.0	2406.7	2175.4	1983.4	1875.1	1747.2	1796.4
12.5°	4729.7	4395.0	3602.6	2938.2	2387.0	2013.0	1683.2	1373.1	1200.9	1068.0	1072.9
15°	5010.2	4572.2	3484.5	2633.1	2047.4	1555.2	1072.9	861.3	812.1	782.5	792.4
17.5°	5285.9	4714.9	3302.4	2323.0	1658.6	989.3	782.5	738.2	713.6	684.1	684.1
20°	5620.5	4808.5	3076.0	2037.6	1141.8	733.3	669.3	639.8	600.4	561.1	566.0
22.5°	5945.4	4887.2	2815.2	1673.4	767.8	634.9	561.1	521.7	487.2	447.9	447.9
25°	6270.2	4911.8	2475.6	1200.9	620.1	506.9	438.0	383.9	349.4	315.0	319.9
27.5°	6491.7	4759.2	2155.7	767.8	497.1	383.9	305.1	260.8	231.3	196.9	196.9
30°	6619.6	4478.7	1811.2	541.4	374.0	260.8	182.1	137.8	108.3	83.7	78.7
32.5°	6747.6	4252.3	1422.4	413.4	246.1	137.8	68.9	24.6	0.0	0.0	0.0
35°	7003.5	3996.4	954.8	231.3	83.7	4.9	0.0	0.0	0.0	0.0	0.0
37.5°	7165.9	3642.0	438.0	34.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	7574.4	3464.8	108.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	8238.8	3341.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	8967.2	3292.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	9936.8	3425.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	10960.5	3784.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	12082.7	4124.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	13062.1	4532.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	14863.4	5497.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	18096.9	7392.3	4.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	21738.9	8799.9	54.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	23072.7	8765.5	93.5	4.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	22836.5	8283.1	93.5	4.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	21611.0	7357.9	83.7	9.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	18559.5	6078.2	83.7	14.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	14149.7	4734.6	78.7	19.7	4.9	0.0	0.0	0.0	0.0	0.0	0.0
75°	8539.1	2519.9	64.0	24.6	9.8	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	3400.9	885.9	49.2	19.7	9.8	0.0	0.0	0.0	0.0	0.0	0.0
80°	920.3	265.8	29.5	19.7	14.8	4.9	0.0	0.0	0.0	0.0	0.0
82.5°	241.2	98.4	24.6	19.7	9.8	4.9	0.0	0.0	0.0	0.0	0.0
85°	93.5	39.4	19.7	14.8	14.8	9.8	4.9	0.0	0.0	0.0	0.0
87.5°	29.5	14.8	14.8	9.8	9.8	4.9	4.9	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)