

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: P481966

Luminaire Tested: **IFLD-L-SA7C-727-U-T2R-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481966
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7C-727-U-T2R-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R
distribution lens with House Side Shield
Light Source: (112) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

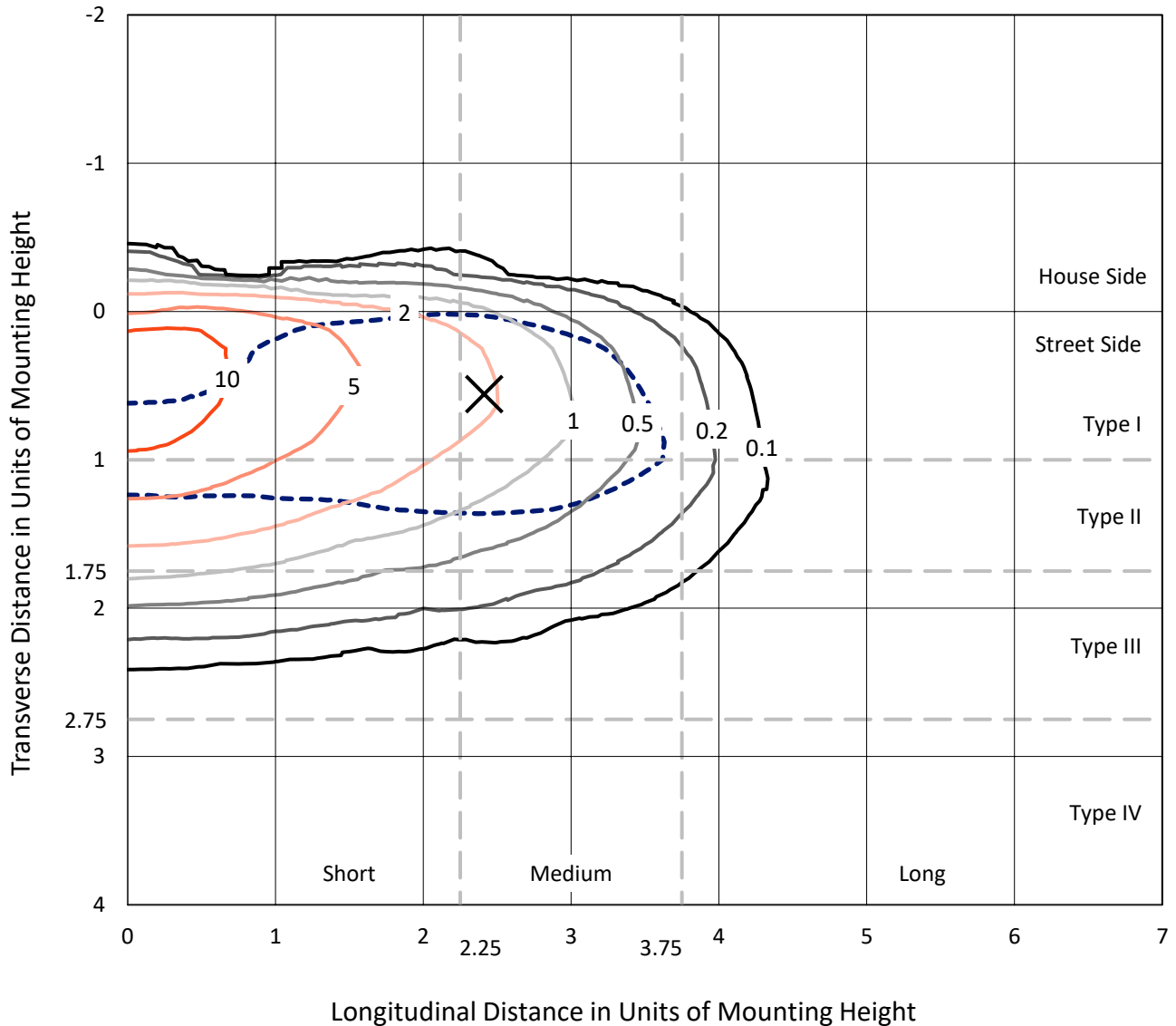
Lumens per Lamp: N/A
Luminaire Lumens: 29147.8 lumens
Efficiency: N/A
Efficacy: 79.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G4

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: P481966
 CATALOG NUMBER: IFLD-L-SA7C-727-U-T2R-HSS

Iso-Footcandle Lines of Horizontal Illumination

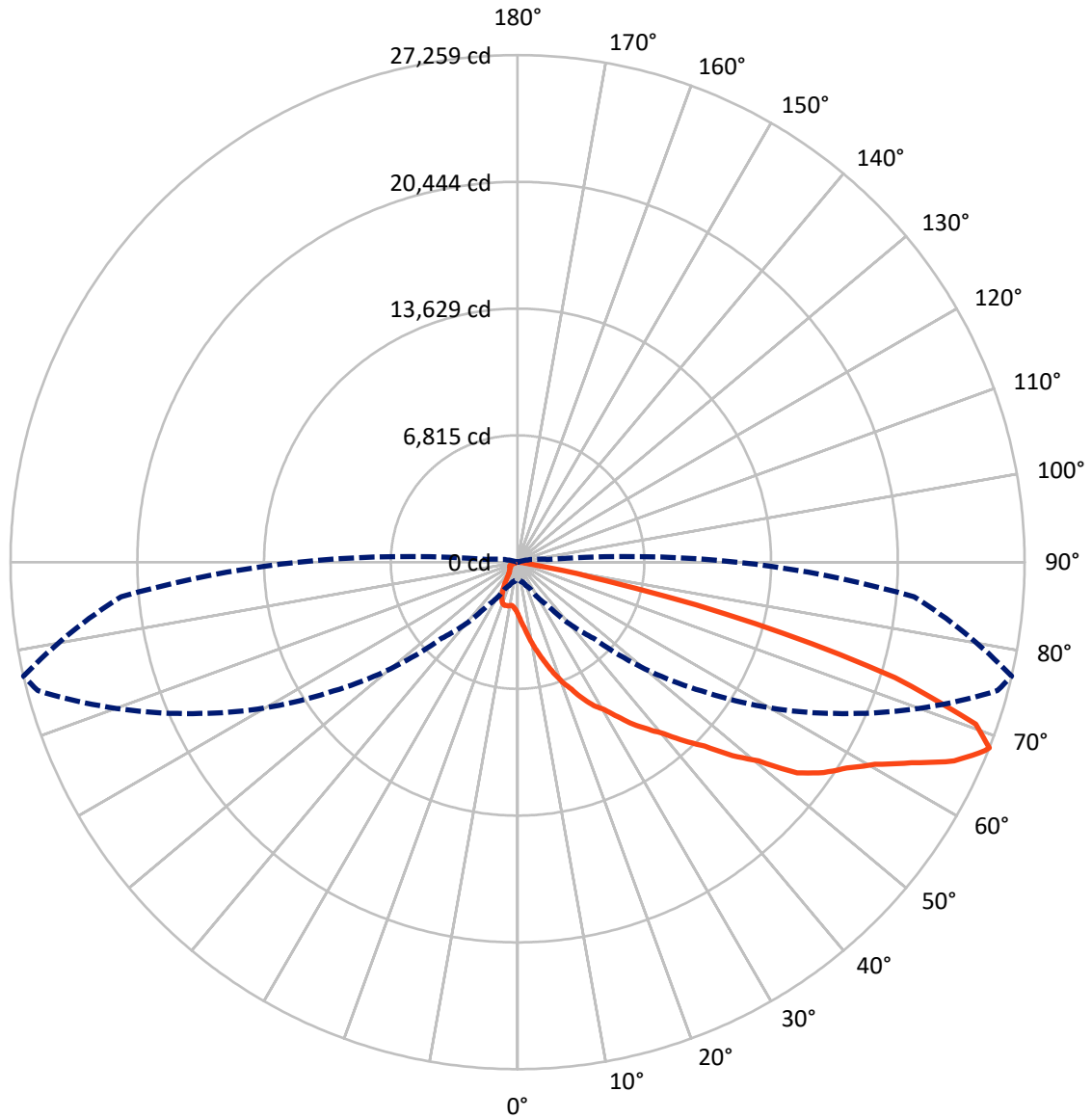
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.2 fc
 Type II - Medium - N/A

REPORT NUMBER: P481966
CATALOG NUMBER: IFLD-L-SA7C-727-U-T2R-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 68-Deg Vertical

REPORT NUMBER: P481966
 CATALOG NUMBER: IFLD-L-SA7C-727-U-T2R-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1321.8	0.0	1321.8
	% Fixture	4.5	0.0	4.5
Street Side	Lumens	27826.0	0.0	27826.0
	% Fixture	95.5	0.0	95.5
Total	Lumens	29147.8	0.0	29147.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	326.1	1.1
10°-20°	1202.5	4.1
20°-30°	2330.5	8.0
30°-40°	4062.9	13.9
40°-50°	5950.5	20.4
50°-60°	6990.9	24.0
60°-70°	5903.2	20.3
70°-80°	2288.2	7.9
80°-90°	93.0	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°	29147.8	100.0
0°-180°	29147.8	100.0

Coefficient of Utilization

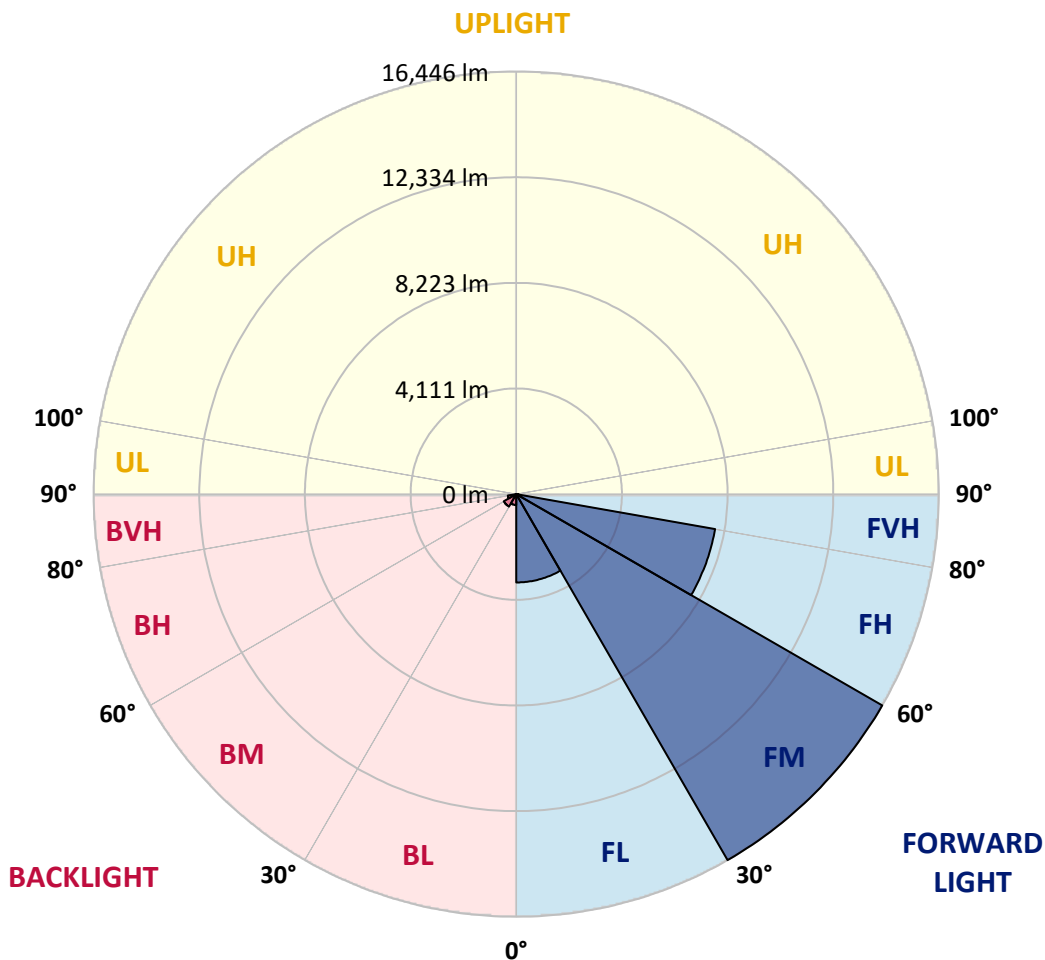


REPORT NUMBER: P481966
 CATALOG NUMBER: IFLD-L-SA7C-727-U-T2R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3436.8	11.8			
FM (30°-60°)	16445.7	56.4			
FH (60°-80°)	7857.6	27.0			G4/12000
FVH (80°-90°)	85.8	0.3			G1/100
BL (0°-30°)	422.3	1.4	B1/500		
BM (30°-60°)	558.5	1.9	B1/1000		
BH (60°-80°)	333.8	1.1	B1/500		G1/500
BVH (80°-90°)	7.2	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-G4
 Type II Medium





REPORT NUMBER: P481966

CATALOG NUMBER: IFLD-L-SA7C-727-U-T2R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	2790.9	2790.9	2790.9	2790.9	2790.9	2790.9	2790.9	2790.9	2790.9	2790.9	2790.9
2.5°	4240.6	4160.3	4076.0	4051.9	3895.3	3718.6	3553.9	3393.3	3124.3	3128.3	2943.5
5°	5465.4	5365.0	5296.8	5280.7	5035.7	4730.5	4481.6	4027.8	3582.0	3481.7	3144.3
7.5°	6473.4	6441.3	6340.9	6256.5	6075.8	5702.4	5409.2	4758.7	4080.0	3967.6	3389.3
10°	7083.8	7132.0	7176.1	7067.7	6927.2	6658.1	6256.5	5553.8	4646.2	4505.7	3706.5
12.5°	7734.3	7654.0	7682.1	7770.5	7585.7	7525.5	7027.6	6373.0	5308.8	5039.8	4108.1
15°	7903.0	7935.1	8003.4	8260.4	8384.9	8212.2	7782.5	7035.6	5995.5	5622.0	4481.6
17.5°	8015.4	7999.4	8083.7	8469.2	8657.9	8822.6	8553.5	7774.5	6593.9	6260.5	4947.4
20°	8156.0	8067.6	8252.4	8497.3	8935.0	9280.4	9268.3	8517.4	7220.3	6866.9	5409.2
22.5°	8678.0	8609.8	8758.3	8782.4	9087.6	9569.5	9686.0	9123.8	7862.8	7429.1	5907.2
25°	9641.8	9766.3	9589.6	9437.0	9529.4	9846.6	9930.9	9661.9	8509.4	8111.8	6405.1
27.5°	11051.3	11035.3	10685.9	10489.1	10268.3	10228.1	10288.3	10163.9	9019.4	8734.2	6814.7
30°	12565.3	12432.7	12111.5	11637.6	11151.7	10850.5	10766.2	10637.7	9617.7	9204.1	7220.3
32.5°	13770.0	13842.3	13484.9	12866.5	12059.3	11653.7	11248.1	11107.6	10276.3	9910.9	7686.1
35°	14878.3	14782.0	14496.8	13974.8	13252.0	12597.4	11962.9	11661.7	11067.4	10706.0	8200.2
37.5°	15697.6	15818.0	15275.9	14777.9	14059.1	13517.0	12894.6	12236.0	11882.6	11400.7	8826.6
40°	16472.6	16283.9	15918.4	15460.6	14794.0	14380.4	13970.8	12942.7	12750.0	12127.6	9533.4
42.5°	16336.1	16348.1	16147.3	15777.9	15296.0	15059.0	14918.5	13802.1	13537.1	13139.5	10224.1
45°	15777.9	15826.1	15894.3	15713.6	15753.8	15516.8	15894.3	14790.0	14529.0	14107.3	11019.2
47.5°	15163.5	15243.8	15227.7	15557.0	15930.5	16010.8	16954.5	15886.3	15773.9	15540.9	12119.5
50°	14143.5	14175.6	14484.8	15083.1	15593.1	16432.4	17749.6	17083.0	17255.7	16797.9	13428.7
52.5°	12400.6	12517.1	13312.2	14167.6	15195.6	16645.3	18287.7	18862.0	19299.7	18829.8	14685.6
55°	10196.0	10356.6	11139.7	12742.0	14247.9	16324.0	18777.6	19801.6	20689.1	19978.3	15448.6
57.5°	8204.2	8220.2	8923.0	10577.5	12902.6	15693.5	19026.6	20259.4	21452.1	20881.9	16380.2
60°	6252.5	6188.3	6818.7	8252.4	10637.7	14143.5	18404.2	20492.4	22403.8	22074.6	17500.6
62.5°	4023.8	3923.4	4610.1	6007.6	8308.6	11561.3	17159.3	20496.4	23889.7	23765.2	19376.0
65°	1991.8	1923.5	2513.9	3682.4	5750.5	8842.7	15384.3	20420.1	25704.8	25785.1	21203.1
67.5°	1052.1	1076.2	1265.0	1867.3	3317.0	6248.5	12709.8	19524.6	26632.4	27082.2	21644.9
68°	967.8	975.8	1124.4	1554.1	2879.3	5794.7	12075.3	19263.5	26704.7	27258.9	21399.9
70°	787.1	799.1	851.3	975.8	1558.1	3770.8	9316.5	17046.8	25616.4	26122.4	19372.0
72.5°	626.5	662.6	694.7	746.9	915.6	1979.8	5794.7	13284.1	21163.0	21219.2	15079.1
75°	477.9	506.0	570.2	614.4	714.8	1088.3	2758.8	8099.8	13886.5	13203.8	8882.8
77.5°	369.4	393.5	421.7	481.9	598.3	734.9	843.3	3437.5	5899.1	4855.0	2509.8
80°	220.9	236.9	329.3	377.5	522.0	498.0	333.3	955.7	1196.7	943.7	457.8
82.5°	128.5	140.6	188.7	289.1	365.4	269.1	196.8	297.2	293.1	257.0	152.6
85°	4.0	8.0	104.4	172.7	128.5	72.3	120.5	124.5	104.4	96.4	68.3
87.5°	0.0	4.0	28.1	24.1	28.1	16.1	24.1	32.1	40.2	36.1	28.1
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: P481966
 CATALOG NUMBER: IFLD-L-SA7C-727-U-T2R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2790.9	2790.9	2790.9	2790.9	2790.9	2790.9	2790.9	2790.9	2790.9	2790.9	2790.9
2.5°	2819.1	2730.7	2533.9	2385.4	2224.7	2128.3	2032.0	1971.7	1939.6	1919.5	1935.6
5°	2891.3	2706.6	2389.4	2108.3	1923.5	1799.1	1674.6	1610.3	1550.1	1518.0	1538.0
7.5°	3052.0	2774.9	2248.8	1943.6	1726.8	1534.0	1377.4	1252.9	1180.6	1116.4	1128.4
10°	3248.7	2815.0	2252.8	1847.2	1534.0	1228.8	1008.0	851.3	763.0	706.8	702.8
12.5°	3449.5	2971.7	2268.9	1750.9	1297.1	923.6	662.6	546.1	493.9	465.8	465.8
15°	3754.7	3112.2	2228.7	1574.2	983.9	602.4	453.8	413.6	393.5	369.4	373.5
17.5°	4019.8	3337.1	2208.7	1309.1	674.6	433.7	377.5	333.3	313.2	289.1	289.1
20°	4377.2	3477.6	2100.2	1012.0	465.8	361.4	305.2	265.0	232.9	212.8	216.9
22.5°	4702.4	3586.1	1907.5	690.7	357.4	285.1	224.9	184.7	156.6	132.5	136.5
25°	5055.8	3694.5	1626.4	425.7	253.0	176.7	120.5	88.3	60.2	44.2	44.2
27.5°	5308.8	3726.6	1260.9	253.0	152.6	80.3	28.1	4.0	0.0	0.0	0.0
30°	5565.8	3738.7	871.4	136.5	60.2	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	5859.0	3734.6	546.1	72.3	4.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	6083.9	3666.4	261.0	8.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	6425.2	3566.0	80.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	6814.7	3385.3	16.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	7164.1	3200.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	7561.6	2971.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	8260.4	2875.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	9172.0	2799.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	9734.2	2574.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	10027.3	2341.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	10461.0	2228.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	11103.5	2236.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	12107.5	2349.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	12661.6	2236.8	16.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	12191.8	1791.0	76.3	20.1	4.0	0.0	0.0	0.0	0.0	0.0	0.0
68°	11786.2	1646.5	76.3	20.1	4.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	9742.2	1072.2	72.3	20.1	8.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	7095.8	594.3	60.2	16.1	8.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	4128.2	297.2	44.2	16.1	8.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	1076.2	148.6	36.1	20.1	12.0	4.0	0.0	0.0	0.0	0.0	0.0
80°	212.8	96.4	32.1	24.1	16.1	8.0	0.0	0.0	0.0	0.0	0.0
82.5°	100.4	68.3	32.1	24.1	20.1	12.0	4.0	0.0	0.0	0.0	0.0
85°	52.2	32.1	32.1	24.1	24.1	16.1	8.0	0.0	0.0	0.0	0.0
87.5°	24.1	12.0	12.0	12.0	12.0	8.0	4.0	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)