

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: P482010

Luminaire Tested: **IFLD-L-SA8C-730-U-T2R-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P482010
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8C-730-U-T2R-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens with House Side Shield
Light Source: (128) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

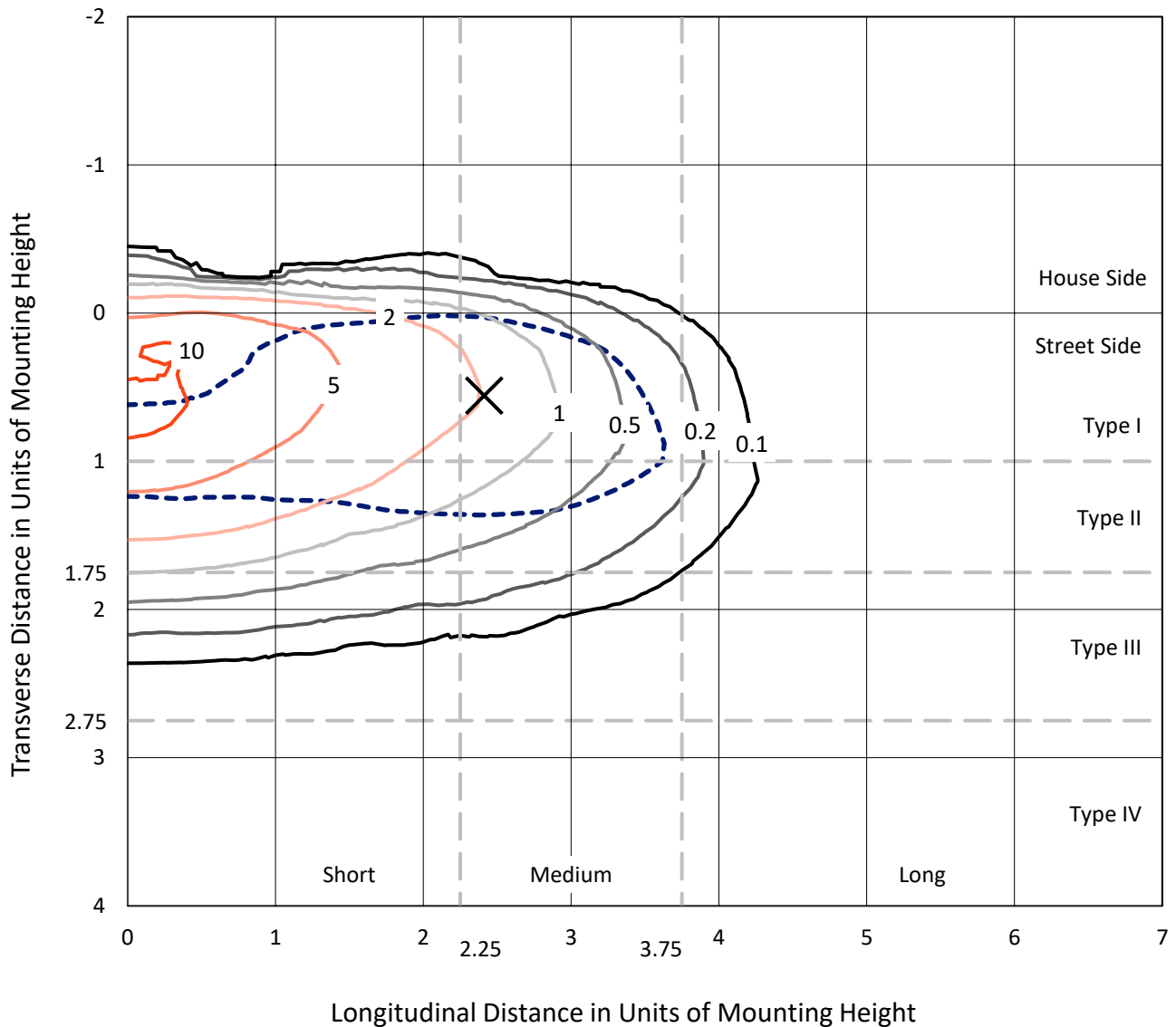
Lumens per Lamp: N/A
Luminaire Lumens: 36271.4 lumens
Efficiency: N/A
Efficacy: 86.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G4

Input Watts (W): 420.3
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: P482010
 CATALOG NUMBER: IFLD-L-SA8C-730-U-T2R-HSS

Iso-Footcandle Lines of Horizontal Illumination

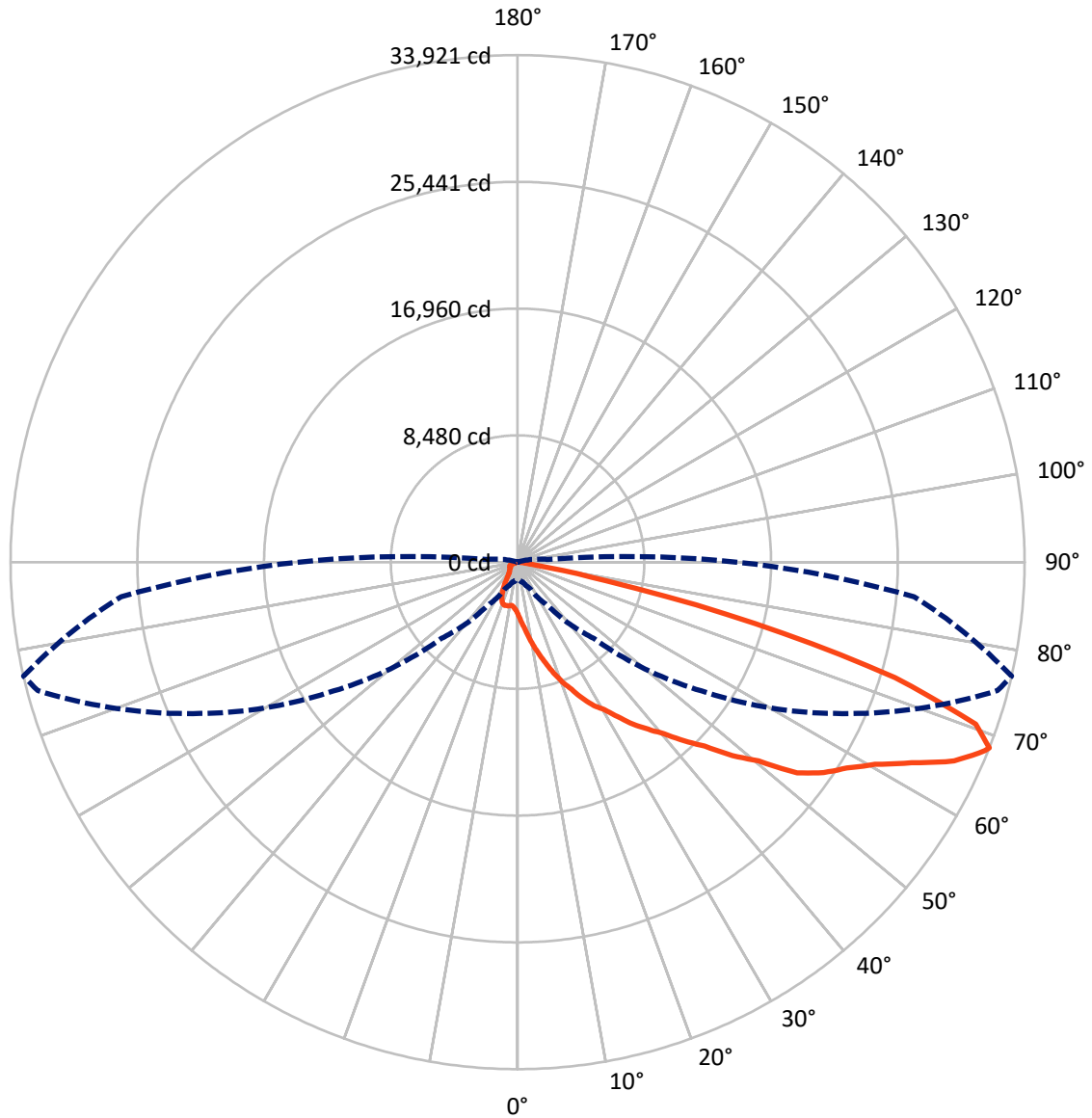
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 11.4 fc
 Type II - Medium - N/A

REPORT NUMBER: P482010
CATALOG NUMBER: IFLD-L-SA8C-730-U-T2R-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P482010
 CATALOG NUMBER: IFLD-L-SA8C-730-U-T2R-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1644.9	0.0	1644.9
	% Fixture	4.5	0.0	4.5
Street Side	Lumens	34626.5	0.0	34626.5
	% Fixture	95.5	0.0	95.5
Total	Lumens	36271.4	0.0	36271.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	405.7	1.1
10°-20°	1496.4	4.1
20°-30°	2900.1	8.0
30°-40°	5055.8	13.9
40°-50°	7404.8	20.4
50°-60°	8699.4	24.0
60°-70°	7345.9	20.3
70°-80°	2847.4	7.9
80°-90°	115.8	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°	36271.4	100.0
0°-180°	36271.4	100.0

Coefficient of Utilization



REPORT NUMBER: P482010

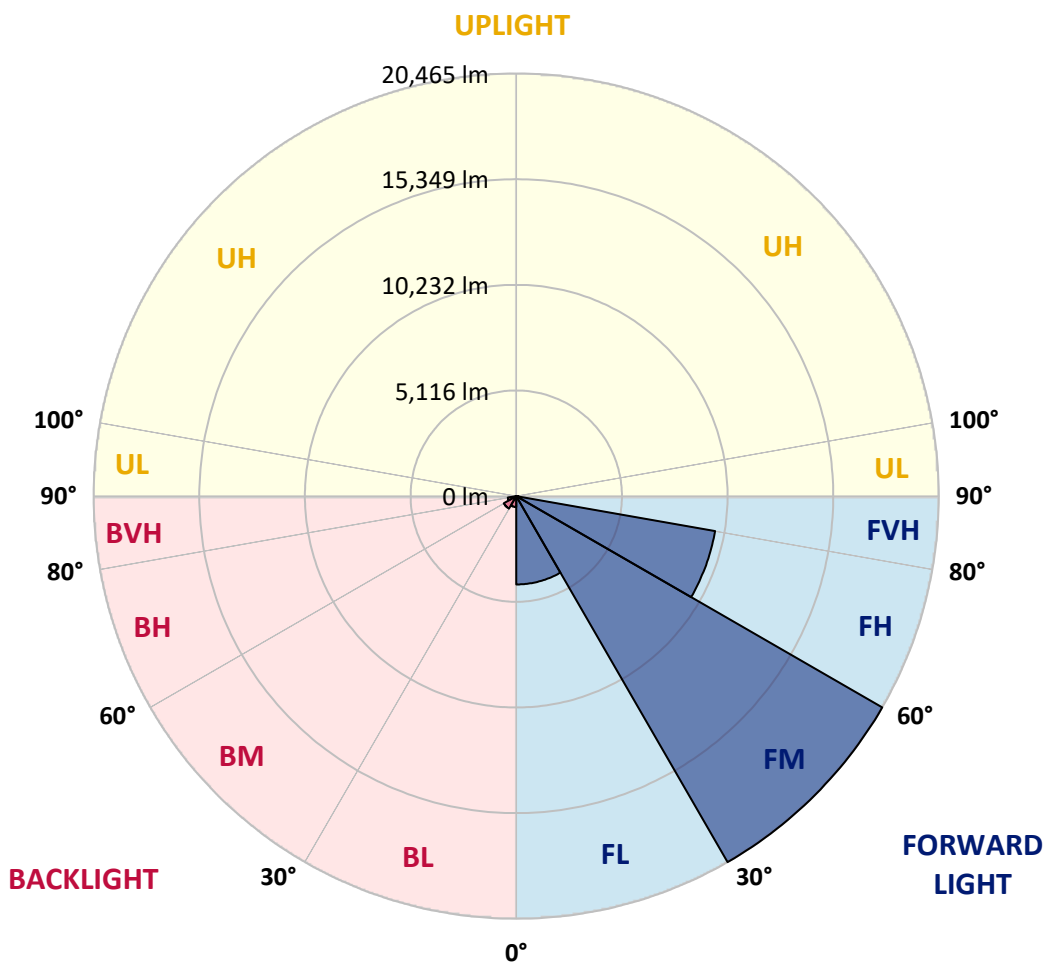
CATALOG NUMBER: IFLD-L-SA8C-730-U-T2R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4276.7	11.8			
FM (30°-60°)	20465.0	56.4			
FH (60°-80°)	9778.0	27.0			G4/12000
FVH (80°-90°)	106.8	0.3			G2/225
BL (0°-30°)	525.5	1.4	B2/1000		
BM (30°-60°)	695.0	1.9	B1/1000		
BH (60°-80°)	415.3	1.1	B1/500		G1/500
BVH (80°-90°)	9.0	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 Medium





REPORT NUMBER: P482010

CATALOG NUMBER: IFLD-L-SA8C-730-U-T2R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	3473.0	3473.0	3473.0	3473.0	3473.0	3473.0	3473.0	3473.0	3473.0	3473.0	3473.0
2.5°	5277.0	5177.1	5072.1	5042.2	4847.3	4627.4	4422.5	4222.6	3887.8	3892.8	3662.9
5°	6801.2	6676.2	6591.3	6571.3	6266.5	5886.7	5576.9	5012.2	4457.5	4332.6	3912.8
7.5°	8055.5	8015.5	7890.5	7785.6	7560.7	7096.0	6731.2	5921.7	5077.1	4937.2	4217.6
10°	8815.0	8875.0	8930.0	8795.0	8620.1	8285.3	7785.6	6911.1	5781.7	5606.8	4612.4
12.5°	9624.6	9524.6	9559.6	9669.5	9439.7	9364.7	8745.1	7930.5	6606.3	6271.5	5112.1
15°	9834.4	9874.4	9959.4	10279.2	10434.1	10219.2	9684.5	8755.1	7460.8	6996.1	5576.9
17.5°	9974.4	9954.4	10059.3	10539.1	10773.9	10978.8	10644.0	9674.5	8205.4	7790.6	6156.5
20°	10149.3	10039.3	10269.2	10574.0	11118.7	11548.5	11533.5	10599.0	8984.9	8545.2	6731.2
22.5°	10798.9	10714.0	10898.8	10928.8	11308.6	11908.3	12053.2	11353.6	9784.5	9244.8	7350.9
25°	11998.2	12153.1	11933.3	11743.4	11858.3	12253.1	12358.0	12023.2	10589.0	10094.3	7970.5
27.5°	13752.2	13732.2	13297.5	13052.6	12777.8	12727.8	12802.8	12647.9	11223.7	10868.9	8480.2
30°	15636.2	15471.3	15071.5	14481.8	13877.2	13502.4	13397.4	13237.5	11968.2	11453.5	8984.9
32.5°	17135.3	17225.3	16780.5	16011.0	15006.5	14501.8	13997.1	13822.2	12787.8	12333.0	9564.6
35°	18514.5	18394.6	18039.8	17390.2	16490.7	15676.2	14886.6	14511.8	13772.2	13322.5	10204.2
37.5°	19534.0	19683.9	19009.3	18389.6	17495.1	16820.5	16045.9	15226.4	14786.7	14187.0	10983.8
40°	20498.4	20263.6	19808.8	19239.1	18409.6	17894.9	17385.2	16105.9	15866.0	15091.5	11863.3
42.5°	20328.5	20343.5	20093.7	19633.9	19034.3	18739.4	18564.5	17175.3	16845.5	16350.8	12722.8
45°	19633.9	19693.9	19778.8	19554.0	19603.9	19309.1	19778.8	18404.6	18079.8	17555.1	13712.3
47.5°	18869.3	18969.3	18949.3	19359.1	19823.8	19923.8	21098.1	19768.8	19628.9	19339.1	15081.5
50°	17600.1	17640.0	18024.8	18769.4	19404.0	20448.5	22087.5	21258.0	21472.9	20903.2	16710.6
52.5°	15431.3	15576.2	16565.6	17630.0	18909.3	20713.3	22757.2	23471.8	24016.4	23431.8	18274.7
55°	12687.8	12887.7	13862.2	15856.1	17730.0	20313.5	23366.8	24641.1	25745.5	24861.0	19224.1
57.5°	10209.2	10229.2	11103.7	13162.6	16055.9	19529.0	23676.6	25210.8	26694.9	25985.3	20383.5
60°	7780.6	7700.7	8485.2	10269.2	13237.5	17600.1	22902.1	25500.6	27879.3	27469.5	21777.7
62.5°	5007.2	4882.2	5736.8	7475.8	10339.2	14386.9	21352.9	25505.6	29728.2	29573.3	24111.4
65°	2478.6	2393.6	3128.2	4582.4	7156.0	11003.8	19144.2	25410.7	31986.9	32086.9	26385.1
67.5°	1309.3	1339.2	1574.1	2323.7	4127.7	7775.6	15816.1	24296.3	33141.3	33701.0	26934.8
68°	1204.3	1214.3	1399.2	1933.9	3583.0	7210.9	15026.5	23971.5	33231.2	33920.9	26630.0
70°	979.4	994.4	1059.4	1214.3	1938.9	4692.4	11593.5	21213.0	31877.0	32506.7	24106.4
72.5°	779.6	824.5	864.5	929.5	1139.4	2463.6	7210.9	16530.7	26335.1	26405.1	18764.4
75°	594.7	629.6	709.6	764.6	889.5	1354.2	3433.1	10079.3	17280.2	16430.7	11053.8
77.5°	459.7	489.7	524.7	599.7	744.6	914.5	1049.4	4277.6	7340.9	6041.6	3123.2
80°	274.8	294.8	409.8	469.7	649.6	619.7	414.8	1189.3	1489.2	1174.3	569.7
82.5°	159.9	174.9	234.9	359.8	454.7	334.8	244.9	369.8	364.8	319.8	189.9
85°	5.0	10.0	129.9	214.9	159.9	89.9	149.9	154.9	129.9	119.9	85.0
87.5°	0.0	5.0	35.0	30.0	35.0	20.0	30.0	40.0	50.0	45.0	35.0
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: P482010

CATALOG NUMBER: IFLD-L-SA8C-730-U-T2R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3473.0	3473.0	3473.0	3473.0	3473.0	3473.0	3473.0	3473.0	3473.0	3473.0	3473.0
2.5°	3508.0	3398.1	3153.2	2968.3	2768.4	2648.5	2528.6	2453.6	2413.6	2388.7	2408.6
5°	3598.0	3368.1	2973.3	2623.5	2393.6	2238.7	2083.8	2003.9	1928.9	1888.9	1913.9
7.5°	3797.9	3453.1	2798.4	2418.6	2148.8	1908.9	1714.0	1559.1	1469.2	1389.2	1404.2
10°	4042.7	3503.0	2803.4	2298.7	1908.9	1529.1	1254.3	1059.4	949.5	879.5	874.5
12.5°	4292.6	3697.9	2823.4	2178.8	1614.1	1149.4	824.5	679.6	614.7	579.7	579.7
15°	4672.4	3872.8	2773.4	1958.9	1224.3	749.6	564.7	514.7	489.7	459.7	464.7
17.5°	5002.2	4152.7	2748.4	1629.1	839.5	539.7	469.7	414.8	389.8	359.8	359.8
20°	5446.9	4327.6	2613.5	1259.3	579.7	449.7	379.8	329.8	289.8	264.9	269.8
22.5°	5851.7	4462.5	2373.7	859.5	444.7	354.8	279.8	229.9	194.9	164.9	169.9
25°	6291.4	4597.4	2023.9	529.7	314.8	219.9	149.9	109.9	75.0	55.0	55.0
27.5°	6606.3	4637.4	1569.1	314.8	189.9	99.9	35.0	5.0	0.0	0.0	0.0
30°	6926.1	4652.4	1084.4	169.9	75.0	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	7290.9	4647.4	679.6	89.9	5.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	7570.7	4562.4	324.8	10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	7995.5	4437.5	99.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	8480.2	4212.6	20.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	8915.0	3982.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	9409.7	3697.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	10279.2	3578.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	11413.6	3483.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	12113.2	3203.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	12478.0	2913.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	13017.7	2773.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	13817.2	2783.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	15066.5	2923.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	15756.1	2783.4	20.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	15171.4	2228.7	94.9	25.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0
68°	14666.7	2048.8	94.9	25.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	12123.2	1334.2	89.9	25.0	10.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	8830.0	739.6	75.0	20.0	10.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	5137.1	369.8	55.0	20.0	10.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	1339.2	184.9	45.0	25.0	15.0	5.0	0.0	0.0	0.0	0.0	0.0
80°	264.9	119.9	40.0	30.0	20.0	10.0	0.0	0.0	0.0	0.0	0.0
82.5°	124.9	85.0	40.0	30.0	25.0	15.0	5.0	0.0	0.0	0.0	0.0
85°	65.0	40.0	40.0	30.0	30.0	20.0	10.0	0.0	0.0	0.0	0.0
87.5°	30.0	15.0	15.0	15.0	15.0	10.0	5.0	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)