

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: P482245

Luminaire Tested: **IFLD-L-SA8D-830-U-T2R-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P482245
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8D-830-U-T2R-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R
distribution lens with House Side Shield
Light Source: (128) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

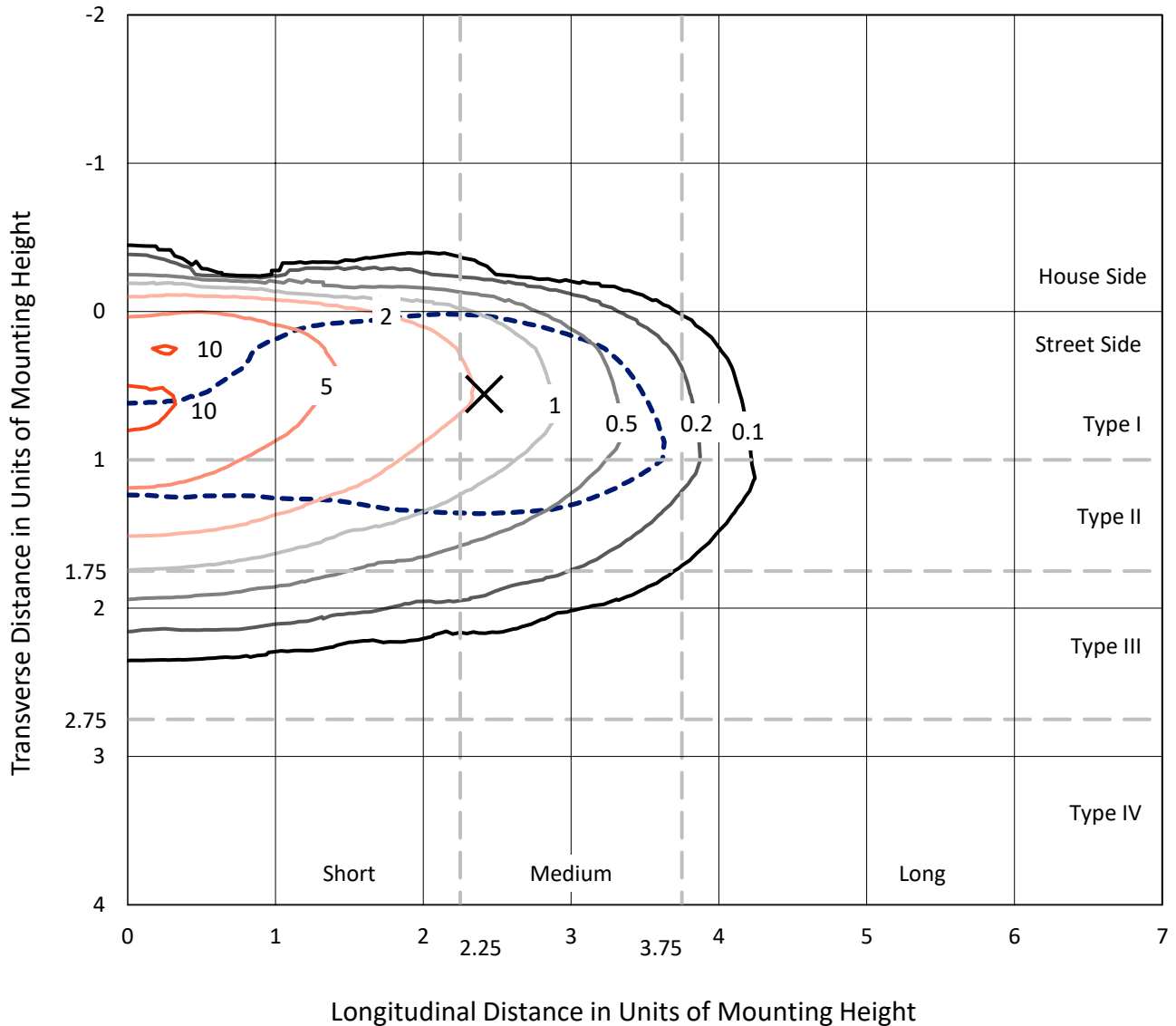
Lumens per Lamp: N/A
Luminaire Lumens: 34826.7 lumens
Efficiency: N/A
Efficacy: 71.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G4

Input Watts (W): 488.3
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: P482245
 CATALOG NUMBER: IFLD-L-SA8D-830-U-T2R-HSS

Iso-Footcandle Lines of Horizontal Illumination

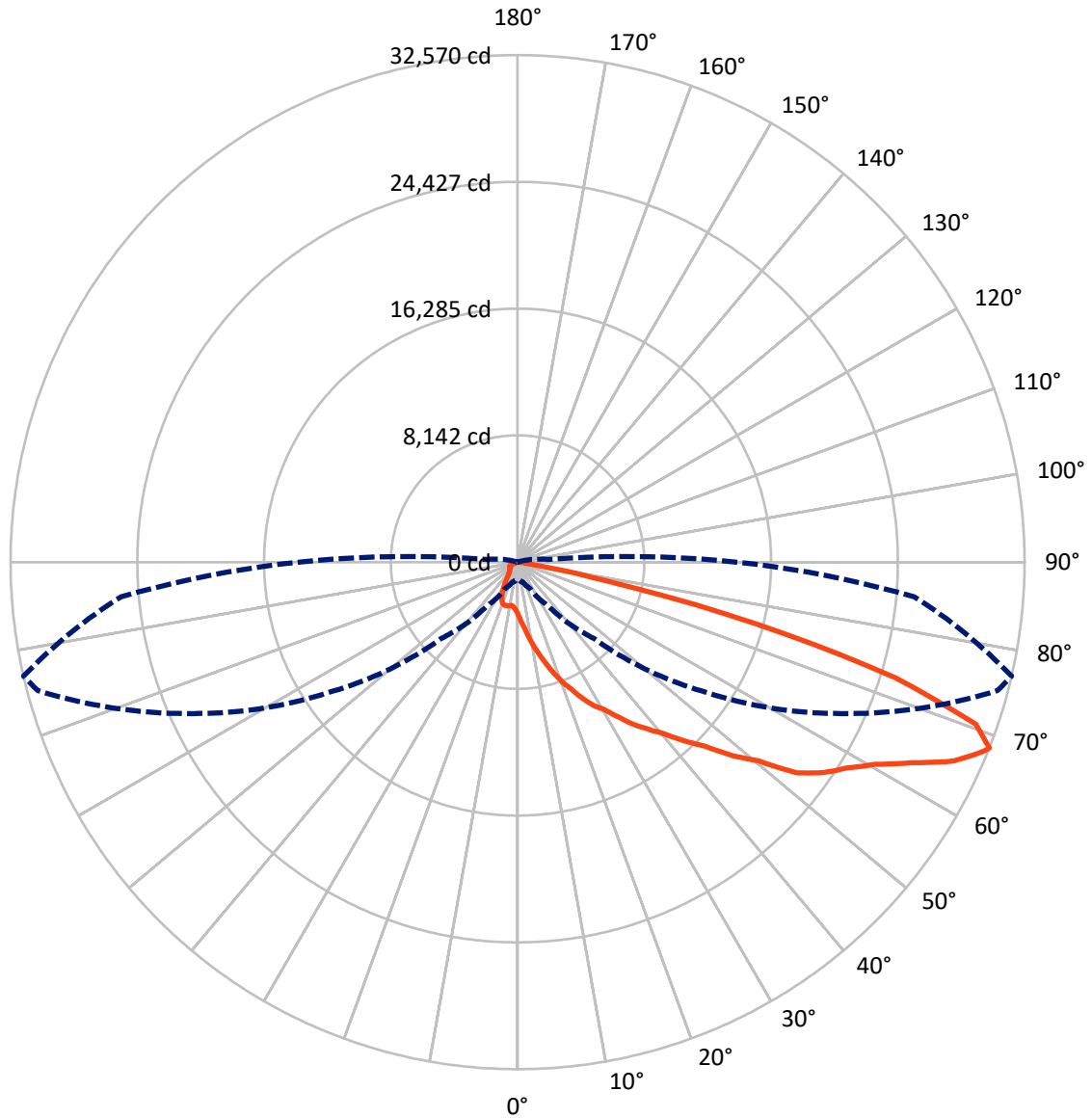
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 11 fc
 Type II - Medium - N/A

REPORT NUMBER: P482245
CATALOG NUMBER: IFLD-L-SA8D-830-U-T2R-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P482245
 CATALOG NUMBER: IFLD-L-SA8D-830-U-T2R-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1579.4	0.0	1579.4
	% Fixture	4.5	0.0	4.5
Street Side	Lumens	33247.3	0.0	33247.3
	% Fixture	95.5	0.0	95.5
Total	Lumens	34826.7	0.0	34826.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	389.6	1.1
10°-20°	1436.8	4.1
20°-30°	2784.6	8.0
30°-40°	4854.5	13.9
40°-50°	7109.8	20.4
50°-60°	8352.9	24.0
60°-70°	7053.3	20.3
70°-80°	2734.0	7.9
80°-90°	111.2	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°	34826.7	100.0
0°-180°	34826.7	100.0

Coefficient of Utilization



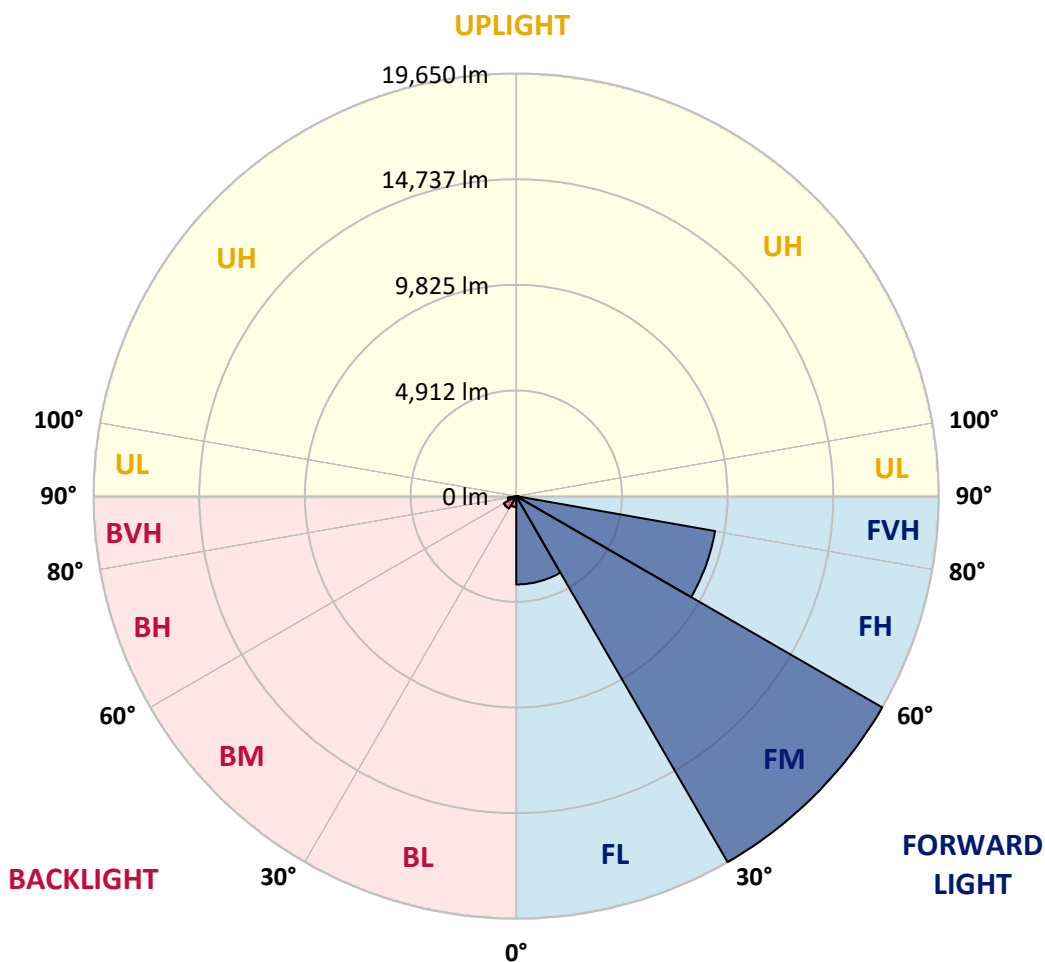
REPORT NUMBER: P482245
 CATALOG NUMBER: IFLD-L-SA8D-830-U-T2R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4106.4	11.8			
FM (30°-60°)	19649.8	56.4			
FH (60°-80°)	9388.6	27.0			G4/12000
FVH (80°-90°)	102.6	0.3			G2/225
BL (0°-30°)	504.6	1.4	B2/1000		
BM (30°-60°)	667.4	1.9	B1/1000		
BH (60°-80°)	398.8	1.1	B1/500		G1/500
BVH (80°-90°)	8.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type II Medium





REPORT NUMBER: P482245

CATALOG NUMBER: IFLD-L-SA8D-830-U-T2R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	3334.7	3334.7	3334.7	3334.7	3334.7	3334.7	3334.7	3334.7	3334.7	3334.7	3334.7
2.5°	5066.8	4970.9	4870.1	4841.3	4654.2	4443.1	4246.4	4054.4	3733.0	3737.8	3517.0
5°	6530.3	6410.3	6328.8	6309.6	6016.9	5652.2	5354.7	4812.5	4279.9	4160.0	3756.9
7.5°	7734.6	7696.2	7576.3	7475.5	7259.6	6813.4	6463.1	5685.8	4874.9	4740.6	4049.6
10°	8463.9	8521.5	8574.3	8444.7	8276.8	7955.3	7475.5	6635.8	5551.5	5383.5	4428.7
12.5°	9241.2	9145.3	9178.8	9284.4	9063.7	8991.7	8396.7	7614.7	6343.1	6021.7	4908.5
15°	9442.7	9481.1	9562.7	9869.8	10018.5	9812.2	9298.8	8406.3	7163.6	6717.4	5354.7
17.5°	9577.1	9557.9	9658.7	10119.3	10344.8	10541.5	10220.0	9289.2	7878.6	7480.3	5911.3
20°	9745.0	9639.5	9860.2	10152.9	10675.9	11088.5	11074.1	10176.9	8627.1	8204.8	6463.1
22.5°	10368.8	10287.2	10464.7	10493.5	10858.2	11434.0	11573.1	10901.4	9394.8	8876.6	7058.1
25°	11520.3	11669.1	11458.0	11275.6	11386.0	11765.0	11865.8	11544.3	10167.3	9692.2	7653.0
27.5°	13204.5	13185.3	12767.9	12532.7	12268.9	12220.9	12292.8	12144.1	10776.6	10436.0	8142.4
30°	15013.4	14855.0	14471.2	13905.0	13324.4	12964.6	12863.8	12710.3	11491.6	10997.3	8627.1
32.5°	16452.8	16539.2	16112.2	15373.2	14408.8	13924.2	13439.6	13271.7	12278.4	11841.8	9183.6
35°	17777.1	17662.0	17321.3	16697.5	15833.9	15051.8	14293.7	13933.8	13223.7	12791.8	9797.8
37.5°	18755.9	18899.9	18252.1	17657.2	16798.3	16150.5	15406.8	14619.9	14197.7	13621.9	10546.3
40°	19682.0	19456.5	19019.8	18472.8	17676.4	17182.1	16692.7	15464.4	15234.1	14490.4	11390.8
42.5°	19518.8	19533.2	19293.3	18851.9	18276.1	17993.0	17825.1	16491.2	16174.5	15699.5	12216.1
45°	18851.9	18909.5	18991.0	18775.1	18823.1	18540.0	18991.0	17671.6	17359.7	16855.9	13166.1
47.5°	18117.8	18213.7	18194.6	18588.0	19034.2	19130.2	20257.8	18981.5	18847.1	18568.8	14480.8
50°	16899.1	16937.4	17306.9	18021.8	18631.2	19634.0	21207.8	20411.3	20617.6	20070.6	16045.0
52.5°	14816.7	14955.8	15905.8	16927.8	18156.2	19888.3	21850.7	22536.9	23059.9	22498.5	17546.8
55°	12182.5	12374.4	13310.0	15224.5	17023.8	19504.4	22436.1	23659.6	24720.0	23870.8	18458.5
57.5°	9802.6	9821.8	10661.5	12638.3	15416.4	18751.1	22733.6	24206.6	25631.7	24950.3	19571.6
60°	7470.7	7393.9	8147.2	9860.2	12710.3	16899.1	21989.9	24484.9	26768.8	26375.4	20910.3
62.5°	4807.7	4687.8	5508.3	7178.0	9927.4	13813.9	20502.5	24489.7	28544.2	28395.4	23151.0
65°	2379.9	2298.3	3003.6	4399.9	6870.9	10565.5	18381.7	24398.6	30712.9	30808.9	25334.2
67.5°	1257.1	1285.9	1511.4	2231.1	3963.3	7465.9	15186.1	23328.6	31821.3	32358.7	25862.0
68°	1156.4	1165.9	1343.5	1856.9	3440.3	6923.7	14428.0	23016.7	31907.6	32569.8	25569.3
70°	940.4	954.8	1017.2	1165.9	1861.7	4505.5	11131.7	20368.1	30607.4	31211.9	23146.2
72.5°	748.5	791.7	830.1	892.5	1094.0	2365.5	6923.7	15872.3	25286.2	25353.4	18017.0
75°	571.0	604.6	681.3	734.1	854.1	1300.3	3296.3	9677.9	16592.0	15776.3	10613.5
77.5°	441.4	470.2	503.8	575.8	714.9	878.1	1007.6	4107.2	7048.5	5801.0	2998.8
80°	263.9	283.1	393.4	451.0	623.8	595.0	398.2	1142.0	1429.8	1127.6	547.0
82.5°	153.5	167.9	225.5	345.5	436.6	321.5	235.1	355.1	350.3	307.1	182.3
85°	4.8	9.6	124.8	206.3	153.5	86.4	143.9	148.7	124.8	115.2	81.6
87.5°	0.0	4.8	33.6	28.8	33.6	19.2	28.8	38.4	48.0	43.2	33.6
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: P482245

CATALOG NUMBER: IFLD-L-SA8D-830-U-T2R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3334.7	3334.7	3334.7	3334.7	3334.7	3334.7	3334.7	3334.7	3334.7	3334.7	3334.7
2.5°	3368.3	3262.7	3027.6	2850.1	2658.2	2543.0	2427.9	2355.9	2317.5	2293.5	2312.7
5°	3454.7	3233.9	2854.9	2519.0	2298.3	2149.6	2000.8	1924.1	1852.1	1813.7	1837.7
7.5°	3646.6	3315.5	2687.0	2322.3	2063.2	1832.9	1645.8	1497.0	1410.7	1333.9	1348.3
10°	3881.7	3363.5	2691.8	2207.1	1832.9	1468.2	1204.3	1017.2	911.6	844.5	839.7
12.5°	4121.6	3550.6	2711.0	2092.0	1549.8	1103.6	791.7	652.5	590.2	556.6	556.6
15°	4486.3	3718.6	2663.0	1880.9	1175.5	719.7	542.2	494.2	470.2	441.4	446.2
17.5°	4802.9	3987.3	2639.0	1564.2	806.1	518.2	451.0	398.2	374.3	345.5	345.5
20°	5230.0	4155.2	2509.4	1209.1	556.6	431.8	364.7	316.7	278.3	254.3	259.1
22.5°	5618.6	4284.7	2279.1	825.3	427.0	340.7	268.7	220.7	187.1	158.3	163.1
25°	6040.9	4414.3	1943.2	508.6	302.3	211.1	143.9	105.6	72.0	52.8	52.8
27.5°	6343.1	4452.7	1506.6	302.3	182.3	96.0	33.6	4.8	0.0	0.0	0.0
30°	6650.2	4467.1	1041.2	163.1	72.0	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	7000.5	4462.3	652.5	86.4	4.8	0.0	0.0	0.0	0.0	0.0	0.0
35°	7269.2	4380.7	311.9	9.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	7677.0	4260.8	96.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	8142.4	4044.8	19.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	8559.9	3824.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	9034.9	3550.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	9869.8	3435.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	10959.0	3344.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	11630.7	3075.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	11981.0	2797.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	12499.2	2663.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	13266.9	2672.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	14466.4	2806.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	15128.5	2672.6	19.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	14567.2	2140.0	91.2	24.0	4.8	0.0	0.0	0.0	0.0	0.0	0.0
68°	14082.5	1967.2	91.2	24.0	4.8	0.0	0.0	0.0	0.0	0.0	0.0
70°	11640.3	1281.1	86.4	24.0	9.6	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	8478.3	710.1	72.0	19.2	9.6	0.0	0.0	0.0	0.0	0.0	0.0
75°	4932.5	355.1	52.8	19.2	9.6	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	1285.9	177.5	43.2	24.0	14.4	4.8	0.0	0.0	0.0	0.0	0.0
80°	254.3	115.2	38.4	28.8	19.2	9.6	0.0	0.0	0.0	0.0	0.0
82.5°	120.0	81.6	38.4	28.8	24.0	14.4	4.8	0.0	0.0	0.0	0.0
85°	62.4	38.4	38.4	28.8	28.8	19.2	9.6	0.0	0.0	0.0	0.0
87.5°	28.8	14.4	14.4	14.4	14.4	9.6	4.8	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)