

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: P482005

Luminaire Tested: **IFLD-L-SA7C-730-U-T2R-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P482005
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7C-730-U-T2R-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R
distribution lens with House Side Shield
Light Source: (112) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

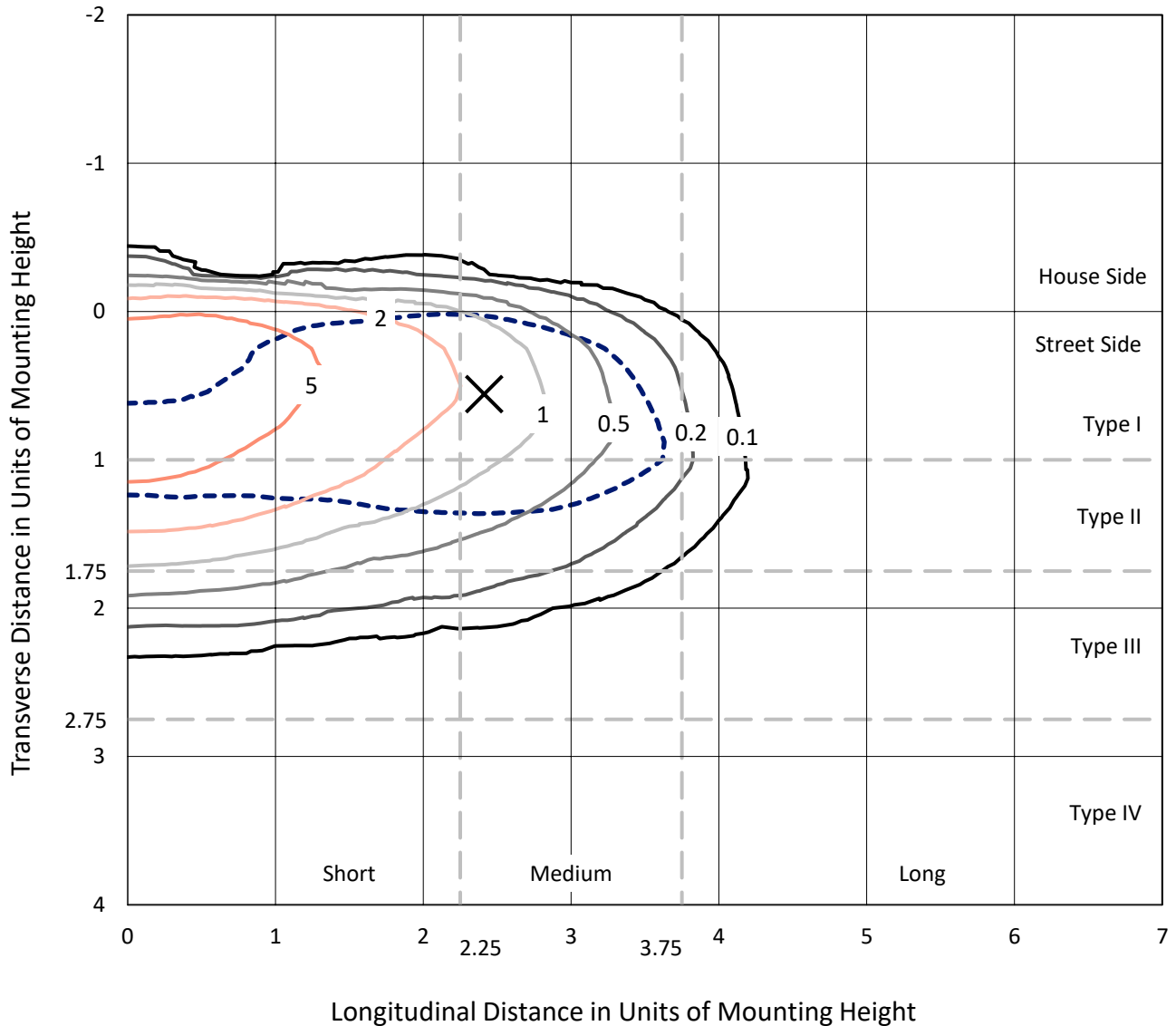
Lumens per Lamp: N/A
Luminaire Lumens: 31737.4 lumens
Efficiency: N/A
Efficacy: 86.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G4

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

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Iso-Footcandle Lines of Horizontal Illumination

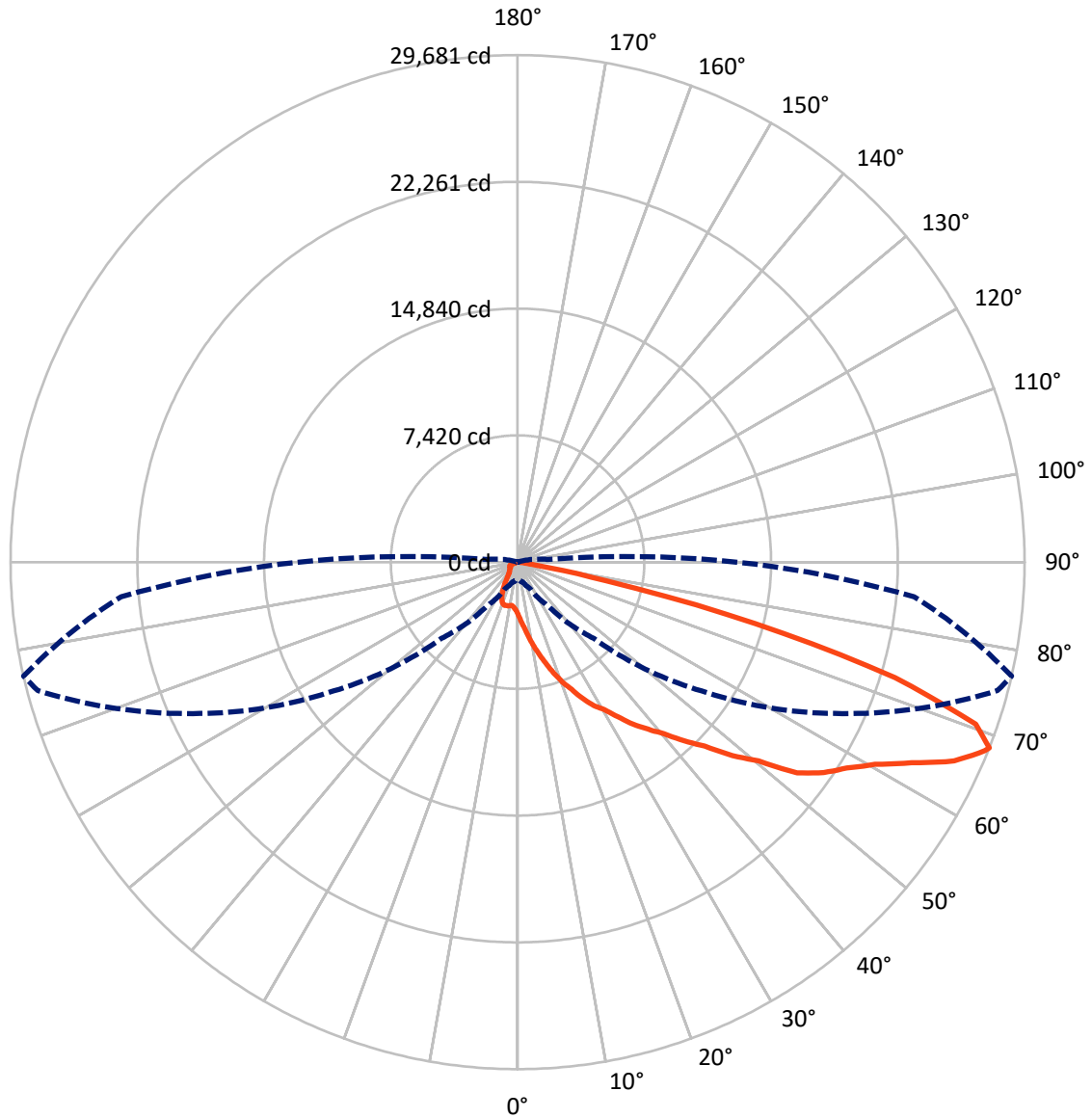
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 10 fc
 Type II - Medium - N/A

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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
House Side	Lumens	1439.3	0.0	1439.3
	% Fixture	4.5	0.0	4.5
Street Side	Lumens	30298.1	0.0	30298.1
	% Fixture	95.5	0.0	95.5
Total	Lumens	31737.4	0.0	31737.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	355.0	1.1
10°-20°	1309.4	4.1
20°-30°	2537.6	8.0
30°-40°	4423.8	13.9
40°-50°	6479.1	20.4
50°-60°	7612.0	24.0
60°-70°	6427.6	20.3
70°-80°	2491.5	7.9
80°-90°	101.3	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°	31737.4	100.0
0°-180°	31737.4	100.0

Coefficient of Utilization

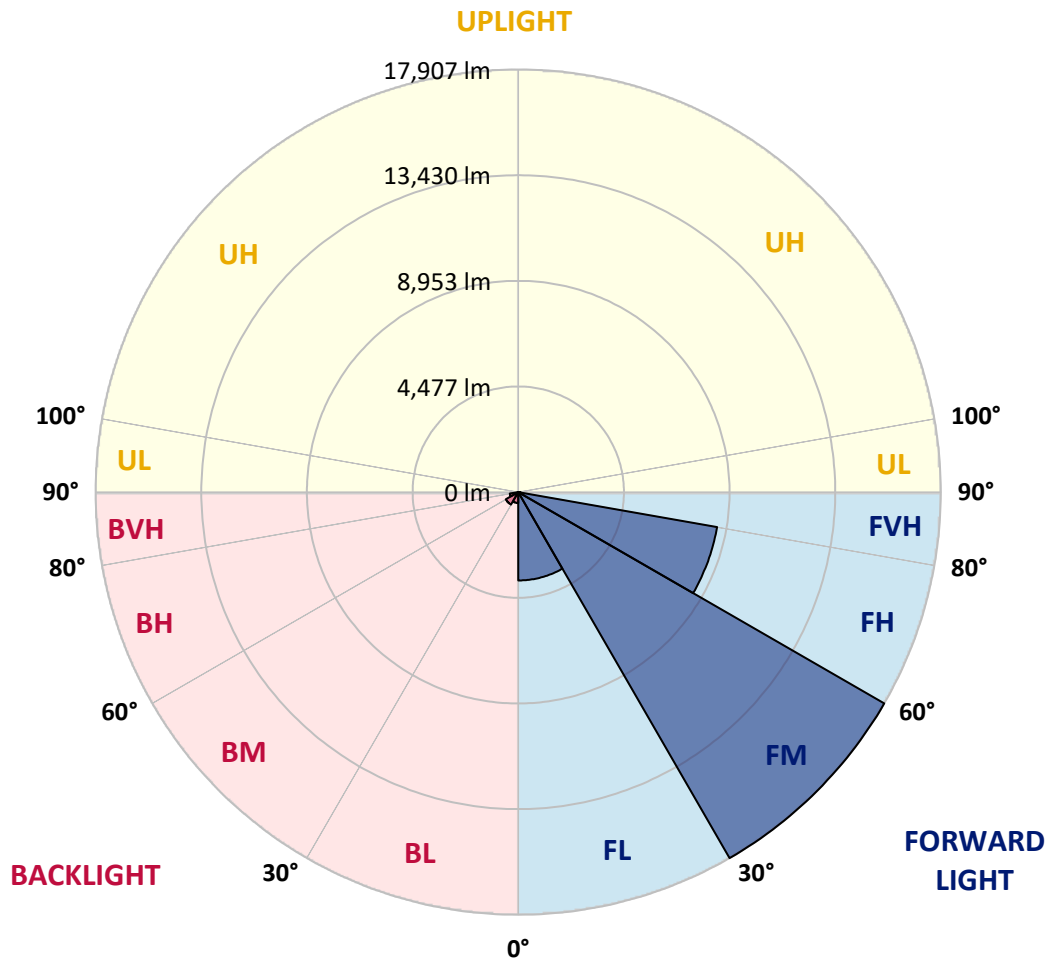


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3742.1	11.8			
FM (30°-60°)	17906.8	56.4			
FH (60°-80°)	8555.7	27.0			G4/12000
FVH (80°-90°)	93.5	0.3			G1/100
BL (0°-30°)	459.8	1.4	B1/500		
BM (30°-60°)	608.2	1.9	B1/1000		
BH (60°-80°)	363.4	1.1	B1/500		G1/500
BVH (80°-90°)	7.8	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	3038.9	3038.9	3038.9	3038.9	3038.9	3038.9	3038.9	3038.9	3038.9	3038.9	3038.9
2.5°	4617.4	4529.9	4438.1	4411.9	4241.3	4049.0	3869.7	3694.8	3401.8	3406.2	3205.1
5°	5951.0	5841.7	5767.4	5749.9	5483.1	5150.8	4879.7	4385.6	3900.3	3791.0	3423.7
7.5°	7048.5	7013.5	6904.2	6812.4	6615.6	6209.0	5889.8	5181.4	4442.5	4320.0	3690.4
10°	7713.1	7765.6	7813.7	7695.6	7542.6	7249.6	6812.4	6047.2	5059.0	4906.0	4035.8
12.5°	8421.5	8334.0	8364.6	8460.8	8259.7	8194.1	7651.9	6939.2	5780.5	5487.5	4473.1
15°	8605.1	8640.1	8714.4	8994.3	9129.8	8941.8	8473.9	7660.7	6528.2	6121.5	4879.7
17.5°	8727.5	8710.1	8801.9	9221.6	9427.2	9606.4	9313.5	8465.2	7179.7	6816.8	5386.9
20°	8880.6	8784.4	8985.5	9252.3	9728.9	10104.9	10091.8	9274.1	7861.8	7477.0	5889.8
22.5°	9449.0	9374.7	9536.5	9562.7	9895.0	10419.7	10546.5	9934.4	8561.4	8089.2	6432.0
25°	10498.4	10634.0	10441.6	10275.4	10376.0	10721.4	10813.2	10520.3	9265.4	8832.5	6974.2
27.5°	12033.2	12015.7	11635.3	11421.0	11180.5	11136.8	11202.4	11066.8	9820.7	9510.2	7420.2
30°	13681.6	13537.3	13187.5	12671.6	12142.5	11814.5	11722.7	11582.8	10472.2	10021.8	7861.8
32.5°	14993.4	15072.1	14682.9	14009.6	13130.7	12689.1	12247.4	12094.4	11189.3	10791.4	8369.0
35°	16200.2	16095.2	15784.8	15216.4	14429.3	13716.6	13025.7	12697.8	12050.7	11657.1	8928.7
37.5°	17092.2	17223.4	16633.1	16090.9	15308.2	14717.9	14040.2	13323.1	12938.3	12413.6	9610.8
40°	17936.1	17730.6	17332.7	16834.2	16108.4	15658.0	15212.0	14092.6	13882.8	13205.0	10380.4
42.5°	17787.4	17800.5	17581.9	17179.6	16654.9	16396.9	16243.9	15028.4	14739.8	14306.9	11132.4
45°	17179.6	17232.1	17306.4	17109.7	17153.4	16895.4	17306.4	16104.0	15819.8	15360.7	11998.2
47.5°	16510.6	16598.1	16580.6	16939.1	17345.8	17433.2	18460.8	17297.7	17175.3	16921.7	13196.3
50°	15400.0	15435.0	15771.7	16423.2	16978.5	17892.4	19326.5	18600.7	18788.7	18290.3	14621.7
52.5°	13502.3	13629.1	14494.9	15426.3	16545.6	18124.1	19912.5	20537.7	21014.3	20502.7	15990.3
55°	11101.8	11276.7	12129.4	13874.0	15513.7	17774.3	20445.9	21560.9	22527.2	21753.3	16821.1
57.5°	8933.1	8950.5	9715.7	11517.2	14048.9	17087.8	20717.0	22059.4	23358.0	22737.1	17835.5
60°	6808.0	6738.1	7424.5	8985.5	11582.8	15400.0	20039.3	22313.0	24394.3	24035.7	19055.4
62.5°	4381.3	4272.0	5019.7	6541.3	9046.7	12588.5	18683.8	22317.3	26012.1	25876.6	21097.4
65°	2168.8	2094.4	2737.2	4009.6	6261.4	9628.3	16751.1	22234.3	27988.5	28076.0	23086.9
67.5°	1145.6	1171.8	1377.3	2033.2	3611.7	6803.6	13839.0	21259.2	28998.6	29488.3	23567.9
68°	1053.8	1062.5	1224.3	1692.2	3135.1	6309.5	13148.2	20975.0	29077.3	29680.7	23301.2
70°	857.0	870.1	927.0	1062.5	1696.5	4105.8	10144.2	18561.3	27892.3	28443.2	21093.0
72.5°	682.1	721.5	756.4	813.3	996.9	2155.7	6309.5	14464.3	23043.2	23104.4	16418.8
75°	520.3	550.9	620.9	669.0	778.3	1185.0	3003.9	8819.4	15120.2	14376.8	9672.0
77.5°	402.3	428.5	459.1	524.7	651.5	800.2	918.2	3742.9	6423.2	5286.4	2732.8
80°	240.5	258.0	358.5	411.0	568.4	542.2	362.9	1040.7	1303.0	1027.5	498.5
82.5°	139.9	153.0	205.5	314.8	397.9	293.0	214.3	323.6	319.2	279.8	166.2
85°	4.4	8.7	113.7	188.0	139.9	78.7	131.2	135.5	113.7	104.9	74.3
87.5°	0.0	4.4	30.6	26.2	30.6	17.5	26.2	35.0	43.7	39.4	30.6
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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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3038.9	3038.9	3038.9	3038.9	3038.9	3038.9	3038.9	3038.9	3038.9	3038.9	3038.9
2.5°	3069.5	2973.3	2759.1	2597.3	2422.4	2317.4	2212.5	2146.9	2111.9	2090.1	2107.6
5°	3148.2	2947.1	2601.6	2295.6	2094.4	1958.9	1823.3	1753.4	1687.8	1652.8	1674.7
7.5°	3323.1	3021.4	2448.6	2116.3	1880.2	1670.3	1499.8	1364.2	1285.5	1215.6	1228.7
10°	3537.4	3065.1	2453.0	2011.4	1670.3	1338.0	1097.5	927.0	830.8	769.6	765.2
12.5°	3756.0	3235.7	2470.5	1906.4	1412.3	1005.7	721.5	594.7	537.8	507.2	507.2
15°	4088.3	3388.7	2426.7	1714.0	1071.3	655.9	494.1	450.4	428.5	402.3	406.6
17.5°	4376.9	3633.6	2404.9	1425.4	734.6	472.2	411.0	362.9	341.1	314.8	314.8
20°	4766.0	3786.6	2286.8	1101.9	507.2	393.5	332.3	288.6	253.6	231.7	236.1
22.5°	5120.2	3904.7	2076.9	752.1	389.2	310.4	244.9	201.1	170.5	144.3	148.7
25°	5505.0	4022.7	1770.9	463.5	275.5	192.4	131.2	96.2	65.6	48.1	48.1
27.5°	5780.5	4057.7	1373.0	275.5	166.2	87.5	30.6	4.4	0.0	0.0	0.0
30°	6060.3	4070.8	948.8	148.7	65.6	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	6379.5	4066.4	594.7	78.7	4.4	0.0	0.0	0.0	0.0	0.0	0.0
35°	6624.4	3992.1	284.2	8.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	6996.0	3882.8	87.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	7420.2	3686.0	17.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	7800.6	3484.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	8233.5	3235.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	8994.3	3130.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	9986.8	3047.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	10599.0	2802.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	10918.2	2549.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	11390.4	2426.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	12090.0	2435.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	13183.1	2557.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	13786.6	2435.5	17.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	13275.0	1950.1	83.1	21.9	4.4	0.0	0.0	0.0	0.0	0.0	0.0
68°	12833.3	1792.7	83.1	21.9	4.4	0.0	0.0	0.0	0.0	0.0	0.0
70°	10607.7	1167.5	78.7	21.9	8.7	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	7726.2	647.1	65.6	17.5	8.7	0.0	0.0	0.0	0.0	0.0	0.0
75°	4495.0	323.6	48.1	17.5	8.7	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	1171.8	161.8	39.4	21.9	13.1	4.4	0.0	0.0	0.0	0.0	0.0
80°	231.7	104.9	35.0	26.2	17.5	8.7	0.0	0.0	0.0	0.0	0.0
82.5°	109.3	74.3	35.0	26.2	21.9	13.1	4.4	0.0	0.0	0.0	0.0
85°	56.8	35.0	35.0	26.2	26.2	17.5	8.7	0.0	0.0	0.0	0.0
87.5°	26.2	13.1	13.1	13.1	13.1	8.7	4.4	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)