

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: P481933

Luminaire Tested: **IFLD-L-SA8D-722-U-T2R-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481933
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8D-722-U-T2R-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens with House Side Shield
Light Source: (128) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

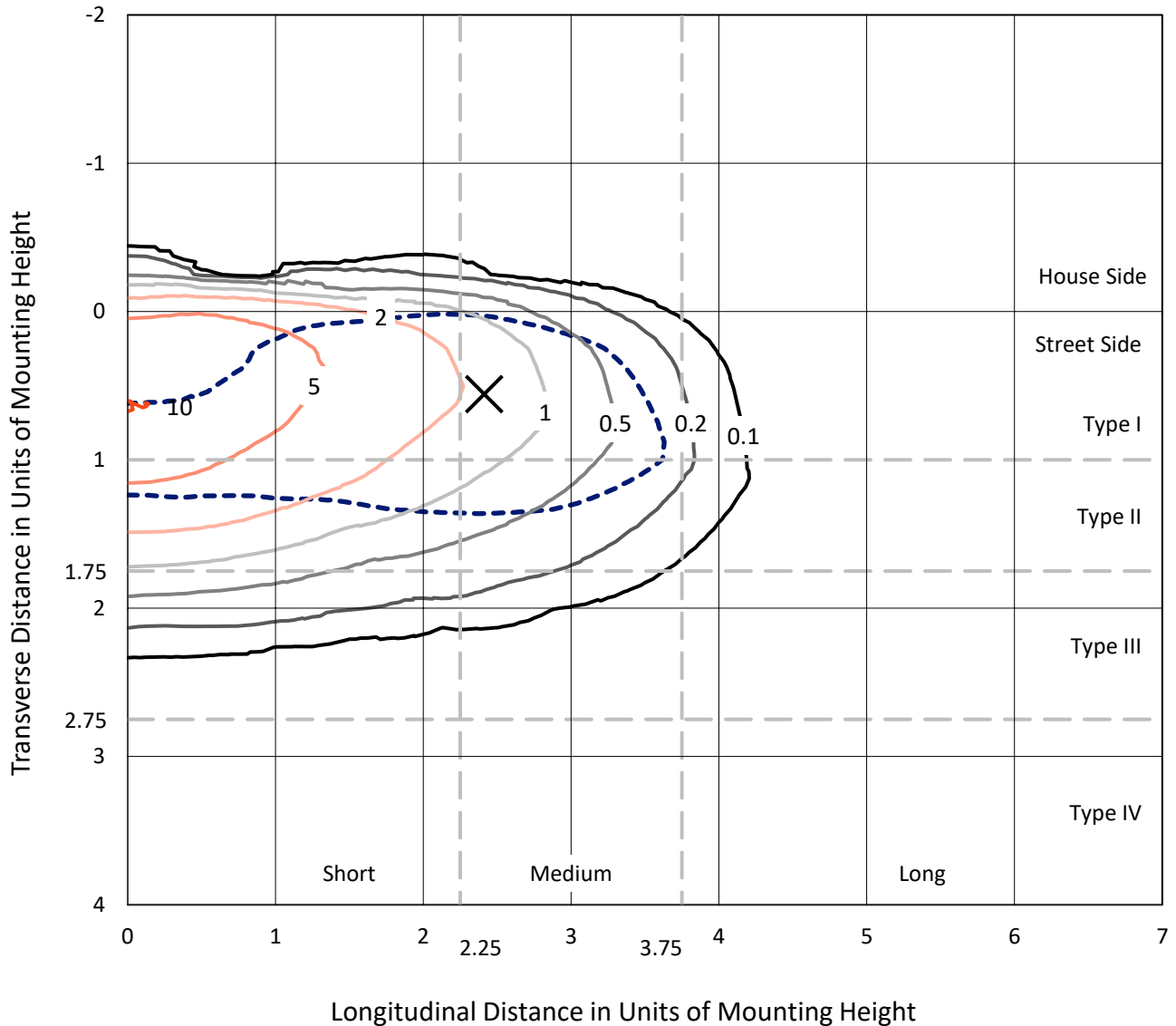
Lumens per Lamp: N/A
Luminaire Lumens: 32284.6 lumens
Efficiency: N/A
Efficacy: 66.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G4

Input Watts (W): 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

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Iso-Footcandle Lines of Horizontal Illumination

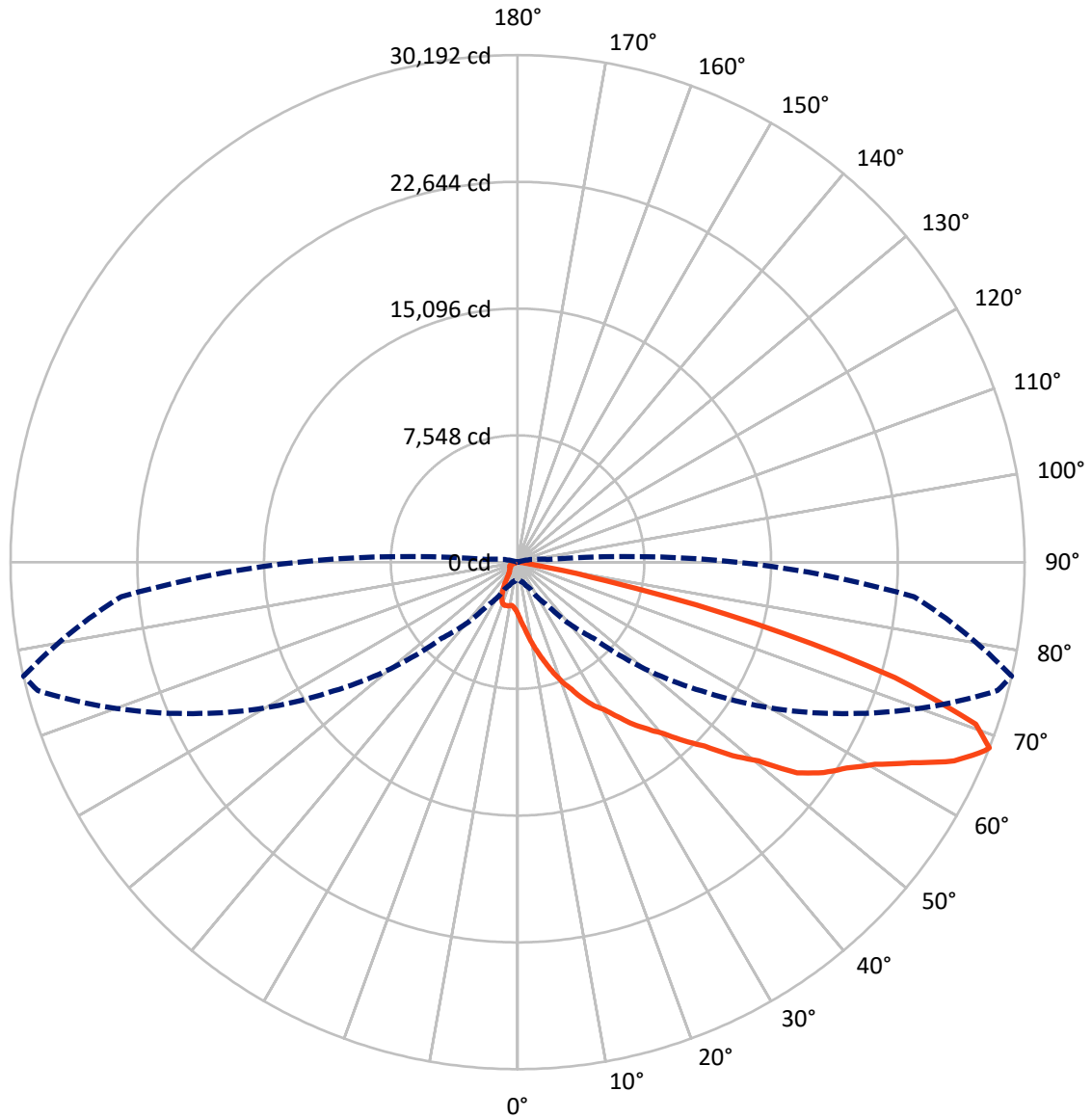
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 10.2 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	1464.1	0.0	1464.1
	% Fixture	4.5	0.0	4.5
Street Side	Lumens	30820.5	0.0	30820.5
	% Fixture	95.5	0.0	95.5
Total	Lumens	32284.6	0.0	32284.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	361.2	1.1
10°-20°	1331.9	4.1
20°-30°	2581.3	8.0
30°-40°	4500.1	13.9
40°-50°	6590.9	20.4
50°-60°	7743.2	24.0
60°-70°	6538.5	20.3
70°-80°	2534.5	7.9
80°-90°	103.1	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°	32284.6	100.0
0°-180°	32284.6	100.0

Coefficient of Utilization



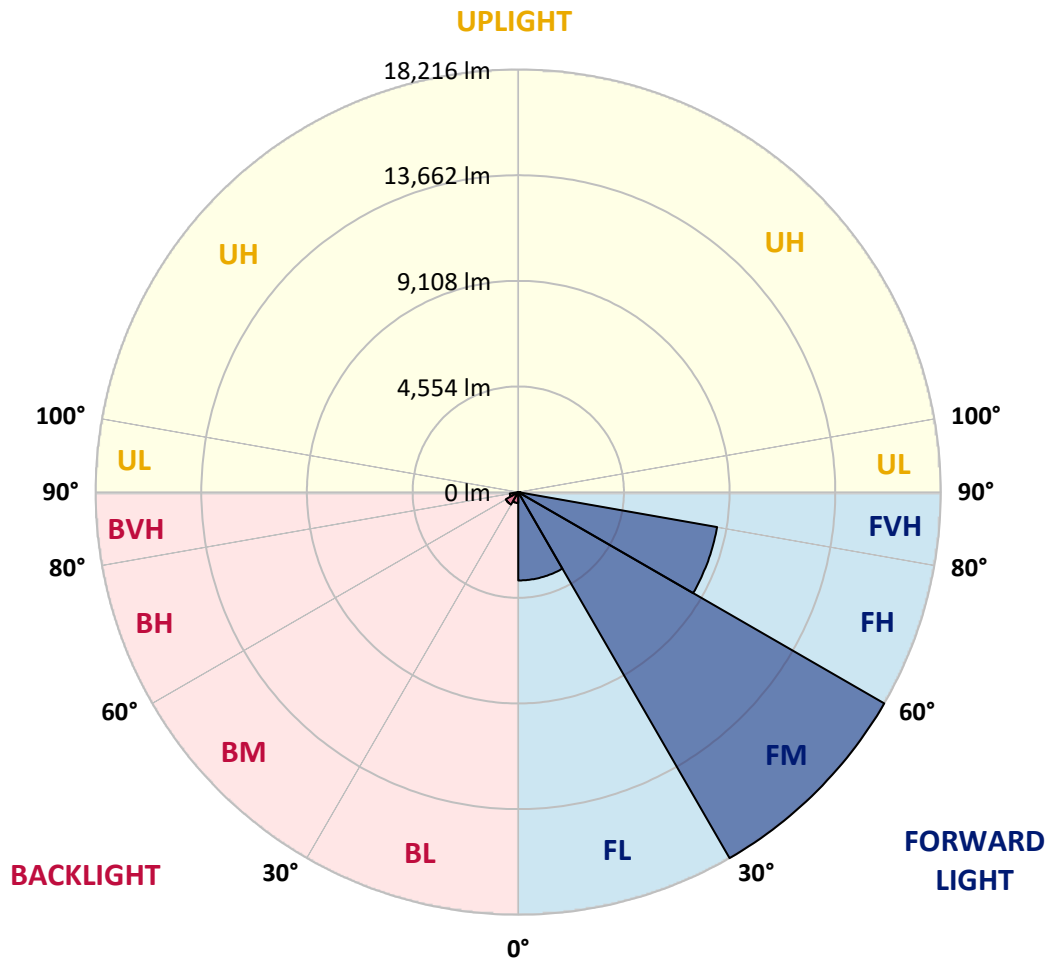
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3806.6	11.8			
FM (30°-60°)	18215.5	56.4			
FH (60°-80°)	8703.3	27.0			G4/12000
FVH (80°-90°)	95.1	0.3			G1/100
BL (0°-30°)	467.8	1.4	B1/500		
BM (30°-60°)	618.7	1.9	B1/1000		
BH (60°-80°)	369.7	1.1	B1/500		G1/500
BVH (80°-90°)	8.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	3091.3	3091.3	3091.3	3091.3	3091.3	3091.3	3091.3	3091.3	3091.3	3091.3	3091.3
2.5°	4697.0	4608.0	4514.6	4487.9	4314.5	4118.8	3936.4	3758.5	3460.5	3464.9	3260.3
5°	6053.6	5942.4	5866.8	5849.0	5577.7	5239.6	4963.9	4461.3	3967.5	3856.3	3482.7
7.5°	7170.0	7134.5	7023.3	6929.8	6729.7	6316.0	5991.3	5270.8	4519.1	4394.5	3754.0
10°	7846.1	7899.5	7948.4	7828.3	7672.7	7374.6	6929.8	6151.5	5146.2	4990.6	4105.4
12.5°	8566.7	8477.7	8508.9	8606.7	8402.1	8335.4	7783.8	7058.8	5880.1	5582.1	4550.2
15°	8753.5	8789.1	8864.7	9149.4	9287.2	9096.0	8620.1	7792.7	6640.7	6227.1	4963.9
17.5°	8878.0	8860.2	8953.6	9380.6	9589.7	9772.1	9474.1	8611.2	7303.5	6934.3	5479.8
20°	9033.7	8935.9	9140.5	9411.8	9896.6	10279.1	10265.8	9434.0	7997.3	7605.9	5991.3
22.5°	9611.9	9536.3	9700.9	9727.6	10065.6	10599.4	10728.4	10105.7	8709.0	8228.6	6542.9
25°	10679.4	10817.3	10621.6	10452.6	10554.9	10906.3	10999.7	10701.7	9425.1	8984.8	7094.4
27.5°	12240.7	12222.9	11835.9	11617.9	11373.3	11328.8	11395.6	11257.7	9990.0	9674.2	7548.1
30°	13917.5	13770.7	13414.9	12890.1	12351.9	12018.3	11924.9	11782.5	10652.8	10194.6	7997.3
32.5°	15251.9	15332.0	14936.1	14251.1	13357.1	12907.8	12458.6	12302.9	11382.2	10977.4	8513.3
35°	16479.5	16372.8	16057.0	15478.7	14678.1	13953.1	13250.3	12916.7	12258.4	11858.1	9082.6
37.5°	17386.9	17520.3	16919.9	16368.3	15572.1	14971.7	14282.2	13552.8	13161.4	12627.6	9776.5
40°	18245.3	18036.3	17631.5	17124.5	16386.1	15928.0	15474.3	14335.6	14122.1	13432.7	10559.3
42.5°	18094.1	18107.5	17885.1	17475.9	16942.1	16679.7	16524.0	15287.5	14993.9	14553.6	11324.4
45°	17475.9	17529.2	17604.8	17404.7	17449.2	17186.7	17604.8	16381.7	16092.6	15625.5	12205.1
47.5°	16795.3	16884.3	16866.5	17231.2	17644.9	17733.8	18779.1	17595.9	17471.4	17213.4	13423.8
50°	15665.6	15701.1	16043.6	16706.4	17271.2	18200.9	19659.8	18921.4	19112.7	18605.6	14873.8
52.5°	13735.2	13864.1	14744.8	15692.2	16830.9	18436.6	20255.8	20891.8	21376.7	20856.3	16266.0
55°	11293.3	11471.2	12338.5	14113.2	15781.2	18080.8	20798.4	21932.7	22915.6	22128.4	17111.1
57.5°	9087.1	9104.9	9883.3	11715.8	14291.1	17382.4	21074.2	22439.7	23760.8	23129.1	18143.0
60°	6925.4	6854.2	7552.6	9140.5	11782.5	15665.6	20384.8	22697.7	24814.9	24450.2	19384.0
62.5°	4456.8	4345.6	5106.2	6654.1	9202.7	12805.5	19005.9	22702.1	26460.6	26322.8	21461.2
65°	2206.2	2130.6	2784.4	4078.7	6369.4	9794.3	17040.0	22617.6	28471.1	28560.1	23485.0
67.5°	1165.4	1192.0	1401.1	2068.3	3674.0	6921.0	14077.6	21625.8	29498.6	29996.7	23974.3
68°	1071.9	1080.8	1245.4	1721.3	3189.2	6418.3	13374.9	21336.6	29578.6	30192.4	23702.9
70°	871.8	885.1	943.0	1080.8	1725.8	4176.6	10319.2	18881.4	28373.2	28933.7	21456.7
72.5°	693.9	733.9	769.5	827.3	1014.1	2192.8	6418.3	14713.7	23440.5	23502.8	16701.9
75°	529.3	560.4	631.6	680.5	791.7	1205.4	3055.7	8971.4	15380.9	14624.7	9838.8
77.5°	409.2	435.9	467.0	533.7	662.7	814.0	934.1	3807.4	6534.0	5377.5	2779.9
80°	244.6	262.4	364.7	418.1	578.2	551.5	369.2	1058.6	1325.5	1045.3	507.1
82.5°	142.3	155.7	209.1	320.2	404.8	298.0	217.9	329.1	324.7	284.7	169.0
85°	4.4	8.9	115.6	191.3	142.3	80.1	133.4	137.9	115.6	106.7	75.6
87.5°	0.0	4.4	31.1	26.7	31.1	17.8	26.7	35.6	44.5	40.0	31.1
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°	3091.3	3091.3	3091.3	3091.3	3091.3	3091.3	3091.3	3091.3	3091.3	3091.3	3091.3
2.5°	3122.4	3024.6	2806.6	2642.1	2464.1	2357.4	2250.6	2183.9	2148.3	2126.1	2143.9
5°	3202.5	2997.9	2646.5	2335.2	2130.6	1992.7	1854.8	1783.6	1716.9	1681.3	1703.6
7.5°	3380.4	3073.5	2490.8	2152.8	1912.6	1699.1	1525.6	1387.7	1307.7	1236.5	1249.9
10°	3598.4	3118.0	2495.3	2046.0	1699.1	1361.1	1116.4	943.0	845.1	782.8	778.4
12.5°	3820.8	3291.5	2513.1	1939.3	1436.7	1023.0	733.9	604.9	547.1	516.0	516.0
15°	4158.8	3447.1	2468.6	1743.6	1089.7	667.2	502.6	458.1	435.9	409.2	413.7
17.5°	4452.4	3696.2	2446.4	1450.0	747.2	480.4	418.1	369.2	346.9	320.2	320.2
20°	4848.2	3851.9	2326.3	1120.9	516.0	400.3	338.0	293.6	258.0	235.7	240.2
22.5°	5208.5	3972.0	2112.8	765.0	395.9	315.8	249.1	204.6	173.5	146.8	151.2
25°	5599.9	4092.1	1801.4	471.5	280.2	195.7	133.4	97.9	66.7	48.9	48.9
27.5°	5880.1	4127.7	1396.6	280.2	169.0	89.0	31.1	4.4	0.0	0.0	0.0
30°	6164.8	4141.0	965.2	151.2	66.7	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	6489.5	4136.6	604.9	80.1	4.4	0.0	0.0	0.0	0.0	0.0	0.0
35°	6738.6	4060.9	289.1	8.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	7116.7	3949.7	89.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	7548.1	3749.6	17.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	7935.1	3545.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	8375.4	3291.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	9149.4	3184.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	10159.0	3100.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	10781.7	2851.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	11106.4	2593.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	11586.8	2468.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	12298.5	2477.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	13410.5	2602.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	14024.3	2477.5	17.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	13503.9	1983.8	84.5	22.2	4.4	0.0	0.0	0.0	0.0	0.0	0.0
68°	13054.6	1823.6	84.5	22.2	4.4	0.0	0.0	0.0	0.0	0.0	0.0
70°	10790.6	1187.6	80.1	22.2	8.9	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	7859.5	658.3	66.7	17.8	8.9	0.0	0.0	0.0	0.0	0.0	0.0
75°	4572.5	329.1	48.9	17.8	8.9	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	1192.0	164.6	40.0	22.2	13.3	4.4	0.0	0.0	0.0	0.0	0.0
80°	235.7	106.7	35.6	26.7	17.8	8.9	0.0	0.0	0.0	0.0	0.0
82.5°	111.2	75.6	35.6	26.7	22.2	13.3	4.4	0.0	0.0	0.0	0.0
85°	57.8	35.6	35.6	26.7	26.7	17.8	8.9	0.0	0.0	0.0	0.0
87.5°	26.7	13.3	13.3	13.3	13.3	8.9	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)