

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: P482127

Luminaire Tested: **IFLD-L-SA8C-750-U-T2R-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P482127
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8C-750-U-T2R-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens with House Side Shield
Light Source: (128) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

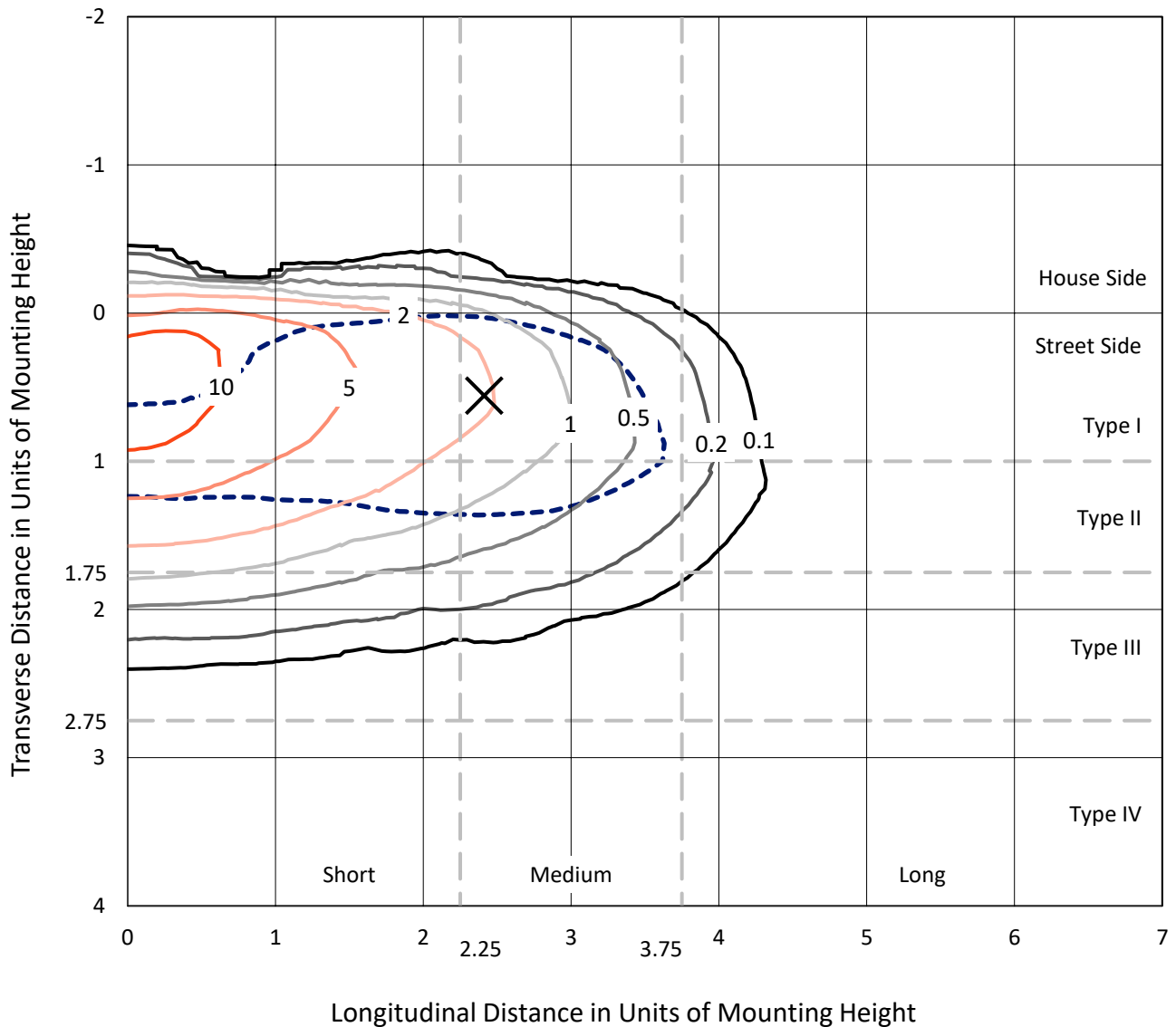
Lumens per Lamp: N/A
Luminaire Lumens: 40744.6 lumens
Efficiency: N/A
Efficacy: 96.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G4

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

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Iso-Footcandle Lines of Horizontal Illumination

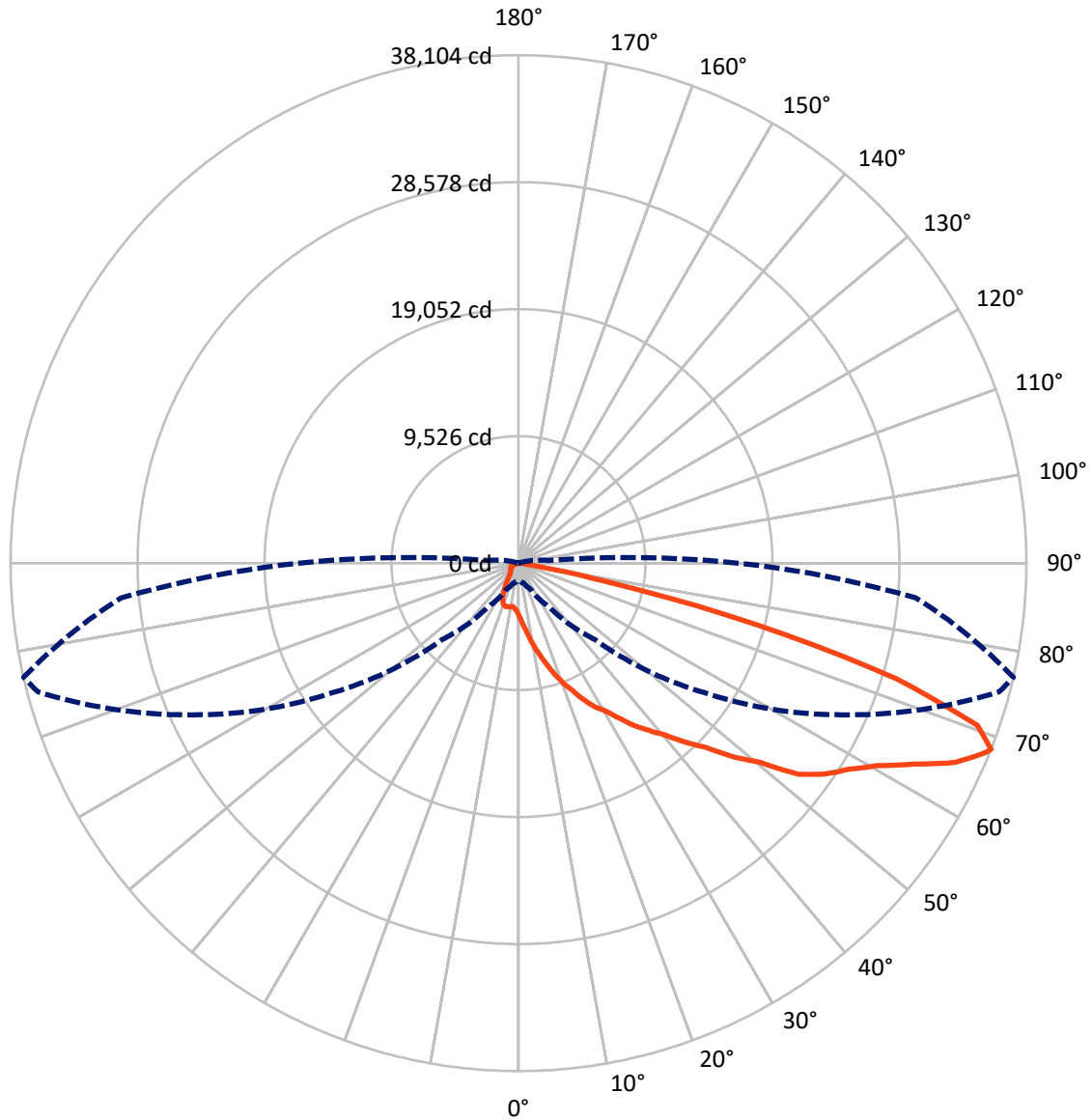
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 12.8 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	1847.7	0.0	1847.7
	% Fixture	4.5	0.0	4.5
Street Side	Lumens	38896.8	0.0	38896.8
	% Fixture	95.5	0.0	95.5
Total	Lumens	40744.6	0.0	40744.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	455.8	1.1
10°-20°	1681.0	4.1
20°-30°	3257.7	8.0
30°-40°	5679.3	13.9
40°-50°	8317.9	20.4
50°-60°	9772.3	24.0
60°-70°	8251.8	20.3
70°-80°	3198.6	7.9
80°-90°	130.1	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°	40744.6	100.0
0°-180°	40744.6	100.0

Coefficient of Utilization



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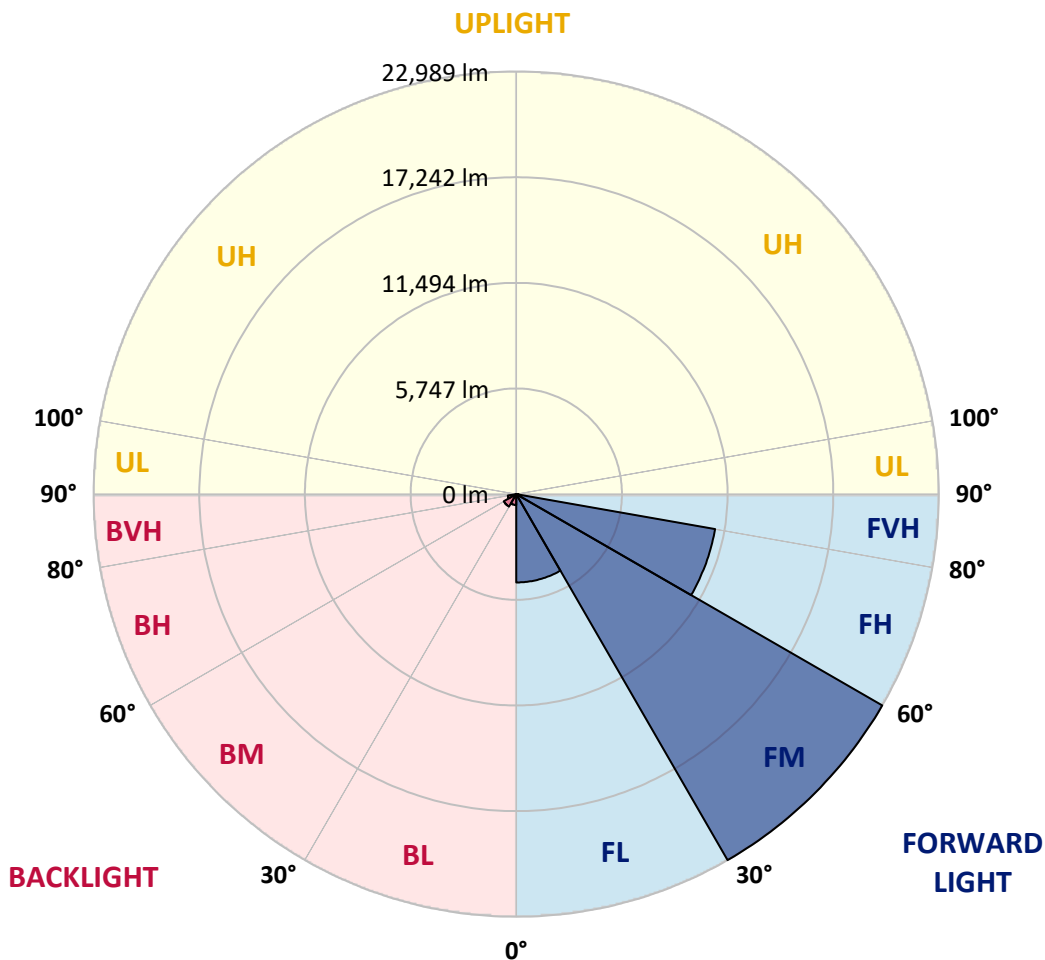
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4804.1	11.8			
FM (30°-60°)	22988.8	56.4			
FH (60°-80°)	10983.9	27.0			G4/12000
FVH (80°-90°)	120.0	0.3			G2/225
BL (0°-30°)	590.4	1.4	B2/1000		
BM (30°-60°)	780.8	1.9	B1/1000		
BH (60°-80°)	466.5	1.1	B1/500		G1/500
BVH (80°-90°)	10.1	0.0			G1/100
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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	3901.4	3901.4	3901.4	3901.4	3901.4	3901.4	3901.4	3901.4	3901.4	3901.4	3901.4
2.5°	5927.8	5815.5	5697.7	5664.0	5445.1	5198.1	4967.9	4743.4	4367.3	4372.9	4114.7
5°	7639.9	7499.6	7404.2	7381.7	7039.3	6612.7	6264.6	5630.3	5007.2	4866.9	4395.3
7.5°	9048.9	9004.0	8863.7	8745.8	8493.2	7971.1	7561.3	6651.9	5703.3	5546.1	4737.8
10°	9902.1	9969.5	10031.2	9879.7	9683.2	9307.1	8745.8	7763.4	6494.8	6298.3	5181.2
12.5°	10811.5	10699.3	10738.5	10862.0	10603.8	10519.6	9823.6	8908.6	7421.0	7044.9	5742.6
15°	11047.3	11092.2	11187.6	11546.9	11720.9	11479.5	10878.9	9834.8	8380.9	7858.8	6264.6
17.5°	11204.5	11182.0	11299.9	11838.8	12102.6	12332.8	11956.7	10867.7	9217.3	8751.4	6915.8
20°	11400.9	11277.4	11535.7	11878.1	12489.9	12972.7	12955.9	11906.1	10093.0	9599.0	7561.3
22.5°	12130.7	12035.3	12243.0	12276.6	12703.3	13376.9	13539.7	12753.8	10991.2	10384.9	8257.4
25°	13477.9	13651.9	13404.9	13191.6	13320.7	13764.2	13882.1	13506.0	11894.9	11339.2	8953.5
27.5°	15448.2	15425.8	14937.4	14662.4	14353.6	14297.5	14381.7	14207.7	12607.8	12209.3	9526.0
30°	17564.5	17379.3	16930.2	16267.8	15588.6	15167.6	15049.7	14870.0	13444.2	12866.0	10093.0
32.5°	19248.5	19349.6	18850.0	17985.5	16857.2	16290.3	15723.3	15526.8	14364.8	13854.0	10744.2
35°	20797.9	20663.1	20264.6	19534.8	18524.4	17609.4	16722.5	16301.5	15470.7	14965.5	11462.7
37.5°	21943.0	22111.4	21353.6	20657.5	19652.7	18894.9	18024.8	17104.2	16610.2	15936.6	12338.4
40°	23026.4	22762.6	22251.7	21611.8	20680.0	20101.8	19529.2	18092.2	17822.7	16952.6	13326.3
42.5°	22835.5	22852.4	22571.7	22055.3	21381.7	21050.5	20854.0	19293.5	18923.0	18367.2	14291.9
45°	22055.3	22122.6	22218.1	21965.5	22021.6	21690.4	22218.1	20674.4	20309.5	19720.1	15403.3
47.5°	21196.4	21308.7	21286.2	21746.5	22268.6	22380.9	23700.0	22206.8	22049.7	21724.1	16941.4
50°	19770.6	19815.5	20247.7	21084.1	21797.1	22970.3	24811.5	23879.6	24121.0	23481.1	18771.4
52.5°	17334.4	17497.1	18608.6	19804.3	21241.3	23267.8	25563.7	26366.4	26978.3	26321.5	20528.4
55°	14252.6	14477.1	15571.7	17811.5	19916.5	22818.7	26248.5	27680.0	28920.5	27927.0	21595.0
57.5°	11468.3	11490.7	12473.1	14785.8	18036.0	21937.4	26596.6	28319.9	29987.1	29190.0	22897.3
60°	8740.2	8650.3	9531.7	11535.7	14870.0	19770.6	25726.5	28645.5	31317.5	30857.2	24463.4
62.5°	5624.7	5484.3	6444.2	8397.7	11614.2	16161.1	23986.3	28651.1	33394.5	33220.4	27084.9
65°	2784.3	2688.8	3514.0	5147.5	8038.5	12360.8	21505.2	28544.4	35931.7	36044.0	29639.1
67.5°	1470.7	1504.4	1768.2	2610.3	4636.7	8734.5	17766.6	27292.6	37228.5	37857.2	30256.5
68°	1352.8	1364.1	1571.8	2172.4	4024.8	8100.2	16879.7	26927.8	37329.5	38104.2	29914.1
70°	1100.2	1117.1	1190.1	1364.1	2178.0	5271.0	13023.2	23829.1	35808.2	36515.5	27079.3
72.5°	875.7	926.2	971.1	1044.1	1279.9	2767.4	8100.2	18569.3	29582.9	29661.5	21078.5
75°	668.0	707.3	797.1	858.9	999.2	1521.2	3856.4	11322.3	19411.3	18457.0	12417.0
77.5°	516.4	550.1	589.4	673.6	836.4	1027.3	1178.8	4805.1	8246.2	6786.7	3508.4
80°	308.7	331.2	460.3	527.7	729.7	696.1	465.9	1336.0	1672.8	1319.2	639.9
82.5°	179.6	196.5	263.8	404.2	510.8	376.1	275.1	415.4	409.8	359.3	213.3
85°	5.6	11.2	145.9	241.4	179.6	101.0	168.4	174.0	145.9	134.7	95.4
87.5°	0.0	5.6	39.3	33.7	39.3	22.5	33.7	44.9	56.1	50.5	39.3
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°	3901.4	3901.4	3901.4	3901.4	3901.4	3901.4	3901.4	3901.4	3901.4	3901.4	3901.4
2.5°	3940.6	3817.2	3542.1	3334.4	3109.9	2975.1	2840.4	2756.2	2711.3	2683.2	2705.7
5°	4041.7	3783.5	3340.0	2947.1	2688.8	2514.8	2340.8	2251.0	2166.8	2121.9	2150.0
7.5°	4266.2	3878.9	3143.5	2716.9	2413.8	2144.3	1925.4	1751.4	1650.4	1560.5	1577.4
10°	4541.3	3935.0	3149.1	2582.2	2144.3	1717.7	1409.0	1190.1	1066.6	988.0	982.4
12.5°	4822.0	4154.0	3171.6	2447.5	1813.1	1291.1	926.2	763.4	690.5	651.2	651.2
15°	5248.6	4350.4	3115.5	2200.5	1375.3	842.0	634.3	578.2	550.1	516.4	522.1
17.5°	5619.1	4664.8	3087.4	1830.0	943.1	606.3	527.7	465.9	437.8	404.2	404.2
20°	6118.7	4861.3	2935.8	1414.6	651.2	505.2	426.6	370.5	325.6	297.5	303.1
22.5°	6573.4	5012.8	2666.4	965.5	499.6	398.6	314.4	258.2	218.9	185.2	190.9
25°	7067.3	5164.4	2273.5	595.0	353.6	247.0	168.4	123.5	84.2	61.7	61.7
27.5°	7421.0	5209.3	1762.6	353.6	213.3	112.3	39.3	5.6	0.0	0.0	0.0
30°	7780.3	5226.1	1218.1	190.9	84.2	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	8190.0	5220.5	763.4	101.0	5.6	0.0	0.0	0.0	0.0	0.0	0.0
35°	8504.4	5125.1	364.9	11.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	8981.5	4984.8	112.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	9526.0	4732.1	22.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	10014.4	4473.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	10570.1	4154.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	11546.9	4019.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	12821.1	3912.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	13607.0	3598.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	14016.8	3272.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	14623.1	3115.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	15521.2	3126.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	16924.6	3283.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	17699.2	3126.7	22.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	17042.5	2503.6	106.7	28.1	5.6	0.0	0.0	0.0	0.0	0.0	0.0
68°	16475.5	2301.5	106.7	28.1	5.6	0.0	0.0	0.0	0.0	0.0	0.0
70°	13618.2	1498.8	101.0	28.1	11.2	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	9919.0	830.8	84.2	22.5	11.2	0.0	0.0	0.0	0.0	0.0	0.0
75°	5770.6	415.4	61.7	22.5	11.2	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	1504.4	207.7	50.5	28.1	16.8	5.6	0.0	0.0	0.0	0.0	0.0
80°	297.5	134.7	44.9	33.7	22.5	11.2	0.0	0.0	0.0	0.0	0.0
82.5°	140.3	95.4	44.9	33.7	28.1	16.8	5.6	0.0	0.0	0.0	0.0
85°	73.0	44.9	44.9	33.7	33.7	22.5	11.2	0.0	0.0	0.0	0.0
87.5°	33.7	16.8	16.8	16.8	16.8	11.2	5.6	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)