

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: P481728

Luminaire Tested: **IFLD-M-SA4D-750-U-T2-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481728
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4D-750-U-T2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens with House Side Shield
Light Source: (64) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

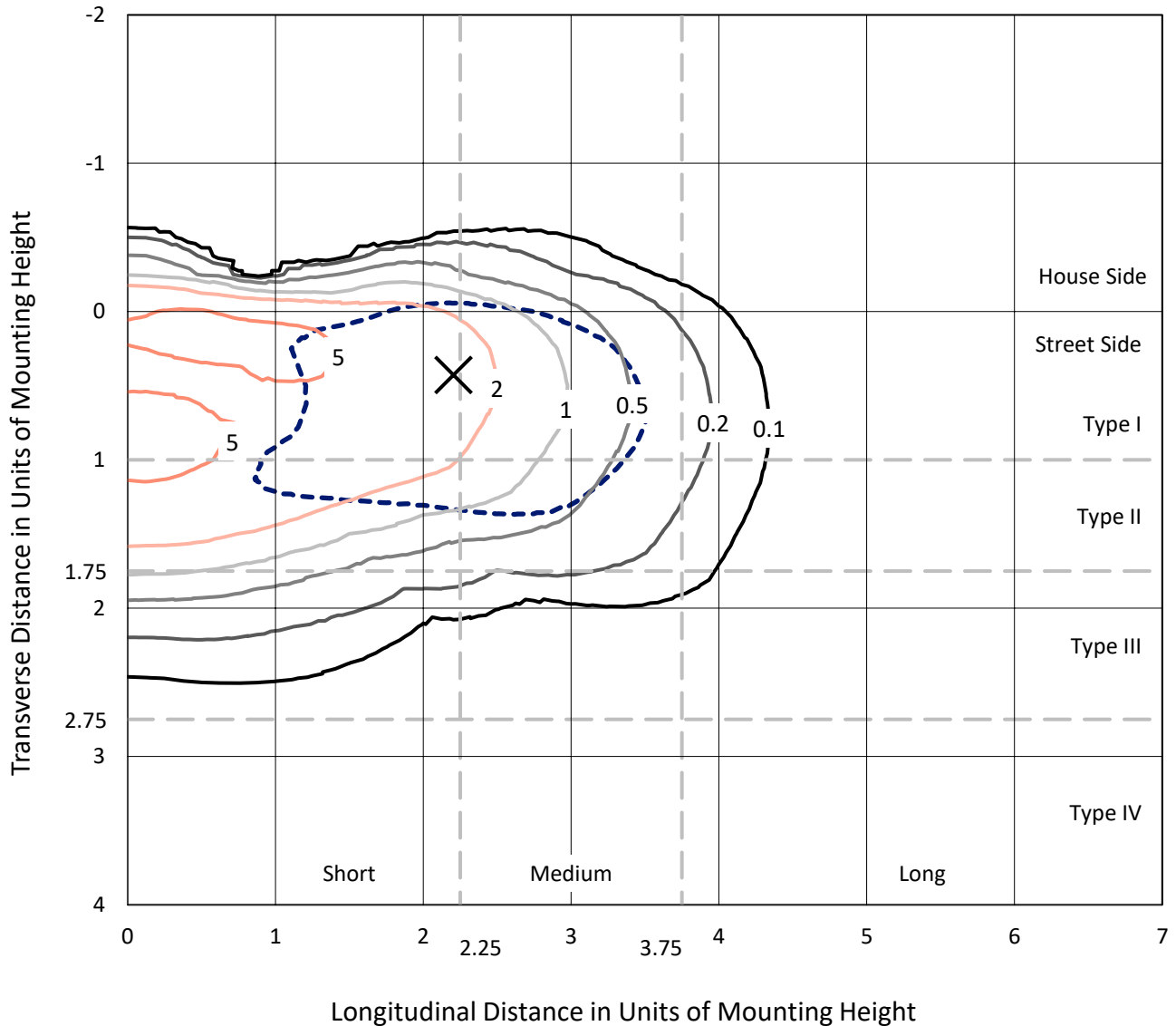
Lumens per Lamp: N/A
Luminaire Lumens: 23044.7 lumens
Efficiency: N/A
Efficacy: 92.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 249.7
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: P481728
 CATALOG NUMBER: IFLD-M-SA4D-750-U-T2-HSS

Iso-Footcandle Lines of Horizontal Illumination

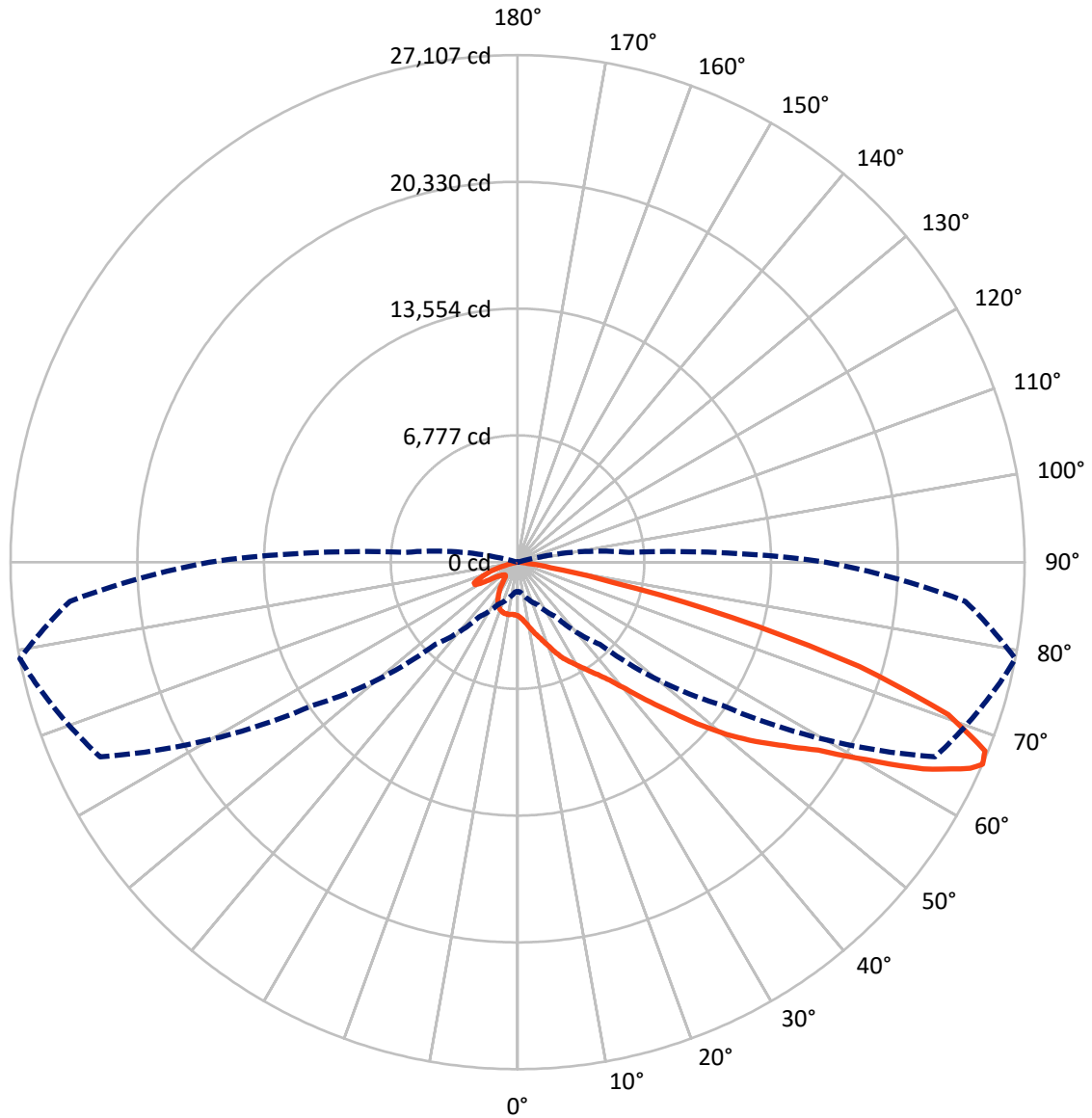
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 fc
 Type II - Short - N/A

REPORT NUMBER: P481728
CATALOG NUMBER: IFLD-M-SA4D-750-U-T2-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1730.3	0.0	1730.3
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	21314.3	0.0	21314.3
	% Fixture	92.5	0.0	92.5
Total	Lumens	23044.7	0.0	23044.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	271.1	1.2
10°-20°	746.2	3.2
20°-30°	1239.7	5.4
30°-40°	2129.3	9.2
40°-50°	3857.4	16.7
50°-60°	6097.5	26.5
60°-70°	6204.6	26.9
70°-80°	2366.1	10.3
80°-90°	132.7	0.6
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°	23044.7	100.0
0°-180°	23044.7	100.0

Coefficient of Utilization



REPORT NUMBER: P481728

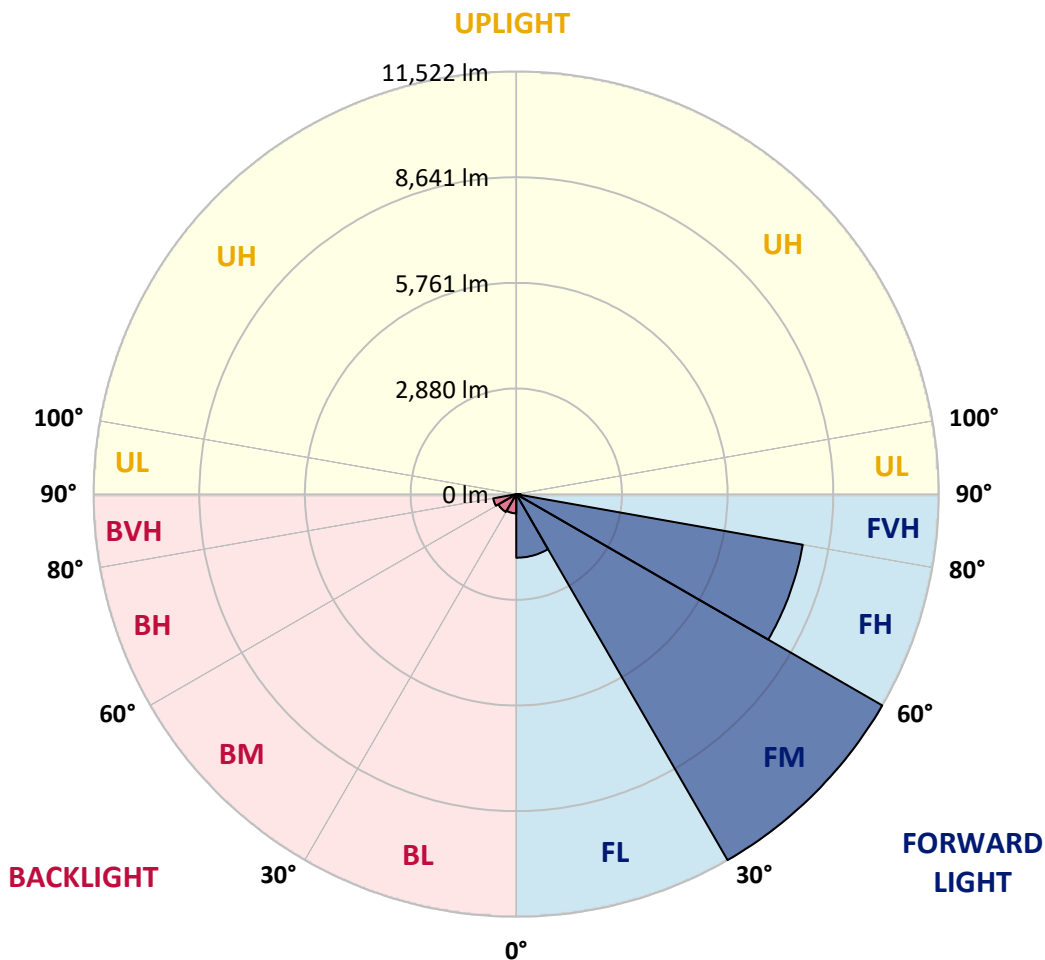
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1733.7	7.5			
FM (30°-60°)	11521.8	50.0			
FH (60°-80°)	7932.9	34.4			G4/12000
FVH (80°-90°)	125.9	0.5			G2/225
BL (0°-30°)	523.3	2.3	B2/1000		
BM (30°-60°)	562.4	2.4	B1/1000		
BH (60°-80°)	637.9	2.8	B2/1000		G2/1000
BVH (80°-90°)	6.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type II Short





REPORT NUMBER: P481728

CATALOG NUMBER: IFLD-M-SA4D-750-U-T2-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	2867.0	2867.0	2867.0	2867.0	2867.0	2867.0	2867.0	2867.0	2867.0	2867.0	2867.0
2.5°	3247.2	3243.6	3229.4	3204.5	3172.6	3161.9	3115.7	3051.8	3016.2	2977.2	2959.4
5°	3471.0	3453.2	3495.9	3478.1	3485.2	3399.9	3343.1	3296.9	3161.9	3108.6	3023.4
7.5°	3520.7	3538.5	3534.9	3563.4	3591.8	3623.8	3584.7	3517.2	3382.2	3304.0	3211.6
10°	3520.7	3513.6	3542.0	3581.1	3662.8	3733.9	3840.5	3751.7	3648.6	3556.3	3389.3
12.5°	3456.8	3446.1	3474.5	3556.3	3701.9	3847.6	3964.8	4050.1	3904.4	3829.8	3613.1
15°	3261.4	3250.7	3368.0	3513.6	3705.5	3943.5	4188.6	4327.2	4227.7	4110.5	3868.9
17.5°	3019.8	3034.0	3158.4	3399.9	3705.5	3989.7	4302.3	4604.3	4590.1	4440.9	4188.6
20°	2938.1	2948.7	3073.1	3247.2	3595.3	4021.7	4480.0	4906.3	4991.5	4813.9	4483.5
22.5°	3094.4	3083.7	3094.4	3201.0	3520.7	3993.2	4597.2	5250.9	5403.7	5265.1	4870.8
25°	3627.3	3620.2	3531.4	3368.0	3478.1	3929.3	4657.6	5478.3	5830.0	5702.1	5183.4
27.5°	4408.9	4380.5	4241.9	3900.9	3677.0	3968.4	4757.1	5698.5	6203.0	6057.4	5464.1
30°	5247.3	5179.8	4998.7	4572.3	4192.2	4114.0	4813.9	5862.0	6618.7	6433.9	5709.2
32.5°	5826.4	5915.3	5858.4	5425.0	4842.3	4451.5	4906.3	6068.0	7002.4	6881.6	6128.4
35°	6721.7	6824.7	6586.7	6203.0	5616.8	4988.0	5101.7	6235.0	7592.1	7389.6	6519.2
37.5°	7851.5	7929.6	7759.1	7030.8	6412.6	5648.8	5503.1	6583.2	8100.2	8004.2	7020.1
40°	8419.9	8796.5	8554.9	7897.7	7233.3	6572.5	6167.5	6991.7	8984.8	8906.6	7712.9
42.5°	9205.1	9393.4	9269.0	8782.3	8089.5	7560.2	6988.2	7787.5	10057.7	10057.7	8650.8
45°	10036.4	10043.5	10036.4	9638.5	9023.9	8750.3	8096.6	8785.8	11212.3	11340.2	9773.5
47.5°	10718.5	10931.7	10913.9	10675.9	10199.8	10096.8	9205.1	9922.7	12661.8	12885.7	10867.7
50°	11070.2	11308.3	11379.3	11503.7	11482.3	11699.1	10416.5	11240.8	13912.4	14463.1	12274.6
52.5°	10974.3	10992.1	11429.1	11919.3	12700.9	13308.4	11876.7	12736.4	15376.1	15919.7	13361.7
55°	10189.2	10121.7	11020.5	11581.8	13198.3	14292.5	13898.2	14601.6	16516.5	17344.3	14484.4
57.5°	8466.1	8483.9	9315.2	10455.6	12828.8	14683.3	16058.2	17038.8	18115.2	18950.1	16061.8
60°	5844.2	5822.9	6753.7	8071.7	10658.1	13955.0	17301.7	20197.1	20254.0	21437.0	18893.3
62.5°	3286.3	3293.4	4000.3	5126.6	7457.1	11404.2	17241.3	23550.9	23309.3	24346.7	22112.0
65°	1861.6	1907.8	2394.5	3037.6	4465.7	7656.1	14829.0	24886.7	25664.7	26588.4	24066.0
66°	1573.8	1605.8	2021.5	2508.2	3563.4	6210.1	13347.5	24627.3	26403.7	27107.1	24026.9
67.5°	1218.6	1261.2	1609.4	1989.5	2614.8	4298.8	10743.4	23337.7	26538.7	26950.8	23348.4
70°	834.9	863.3	1129.8	1509.9	1787.0	2199.1	6423.3	19294.7	24080.2	24428.4	20293.0
72.5°	586.2	600.4	792.3	1144.0	1374.9	1257.7	3186.8	13727.7	18427.9	19106.4	15784.7
75°	422.8	437.0	543.6	820.7	1072.9	824.2	1460.2	8768.1	11301.2	11834.1	9507.0
77.5°	305.5	323.3	369.5	529.4	778.0	579.1	717.6	4579.4	5329.1	5236.7	4089.2
80°	184.7	202.5	273.6	341.1	568.4	408.6	394.4	1911.4	1890.0	1794.1	1286.1
82.5°	85.3	99.5	145.7	230.9	397.9	284.2	188.3	682.1	596.9	547.1	362.4
85°	24.9	32.0	85.3	174.1	202.5	138.6	113.7	234.5	245.1	209.6	120.8
87.5°	0.0	3.6	39.1	42.6	60.4	46.2	42.6	60.4	113.7	92.4	39.1
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: P481728

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2867.0	2867.0	2867.0	2867.0	2867.0	2867.0	2867.0	2867.0	2867.0	2867.0	2867.0
2.5°	2895.5	2870.6	2810.2	2717.8	2636.1	2593.5	2533.1	2479.8	2451.4	2447.8	2444.3
5°	2966.5	2899.0	2753.3	2586.4	2462.0	2327.0	2234.7	2167.1	2103.2	2042.8	2078.3
7.5°	3062.4	2955.9	2717.8	2501.1	2231.1	2057.0	1893.6	1797.7	1740.8	1687.5	1680.4
10°	3211.6	3076.6	2693.0	2302.2	1993.1	1737.3	1570.3	1431.7	1353.6	1261.2	1296.7
12.5°	3414.1	3172.6	2600.6	2121.0	1723.1	1453.1	1215.0	991.2	866.9	770.9	774.5
15°	3616.7	3300.5	2515.3	1900.7	1477.9	1122.7	774.5	621.7	586.2	564.9	572.0
17.5°	3815.6	3403.5	2383.9	1676.9	1197.3	714.1	564.9	532.9	515.1	493.8	493.8
20°	4057.2	3471.0	2220.4	1470.8	824.2	529.4	483.2	461.9	433.4	405.0	408.6
22.5°	4291.7	3527.8	2032.1	1207.9	554.2	458.3	405.0	376.6	351.7	323.3	323.3
25°	4526.1	3545.6	1787.0	866.9	447.6	365.9	316.2	277.1	252.2	227.4	230.9
27.5°	4686.0	3435.5	1556.1	554.2	358.8	277.1	220.3	188.3	167.0	142.1	142.1
30°	4778.4	3233.0	1307.4	390.8	270.0	188.3	131.5	99.5	78.2	60.4	56.8
32.5°	4870.8	3069.5	1026.7	298.4	177.6	99.5	49.7	17.8	0.0	0.0	0.0
35°	5055.5	2884.8	689.2	167.0	60.4	3.6	0.0	0.0	0.0	0.0	0.0
37.5°	5172.7	2629.0	316.2	24.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	5467.6	2501.1	78.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	5947.2	2412.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	6473.0	2376.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	7172.9	2472.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	7911.9	2732.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	8721.9	2977.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	9428.9	3272.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	10729.2	3968.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	13063.3	5336.2	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	15692.3	6352.2	39.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	16655.1	6327.4	67.5	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	16484.5	5979.2	67.5	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	15599.9	5311.3	60.4	7.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	13397.2	4387.6	60.4	10.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	10214.0	3417.7	56.8	14.2	3.6	0.0	0.0	0.0	0.0	0.0	0.0
75°	6163.9	1819.0	46.2	17.8	7.1	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	2454.9	639.5	35.5	14.2	7.1	0.0	0.0	0.0	0.0	0.0	0.0
80°	664.4	191.8	21.3	14.2	10.7	3.6	0.0	0.0	0.0	0.0	0.0
82.5°	174.1	71.1	17.8	14.2	7.1	3.6	0.0	0.0	0.0	0.0	0.0
85°	67.5	28.4	14.2	10.7	10.7	7.1	3.6	0.0	0.0	0.0	0.0
87.5°	21.3	10.7	10.7	7.1	7.1	3.6	3.6	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)