

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: P482391

Luminaire Tested: **IFLD-M-SA4D-730-U-T3-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P482391
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4D-730-U-T3-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens with House Side Shield
Light Source: (64) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

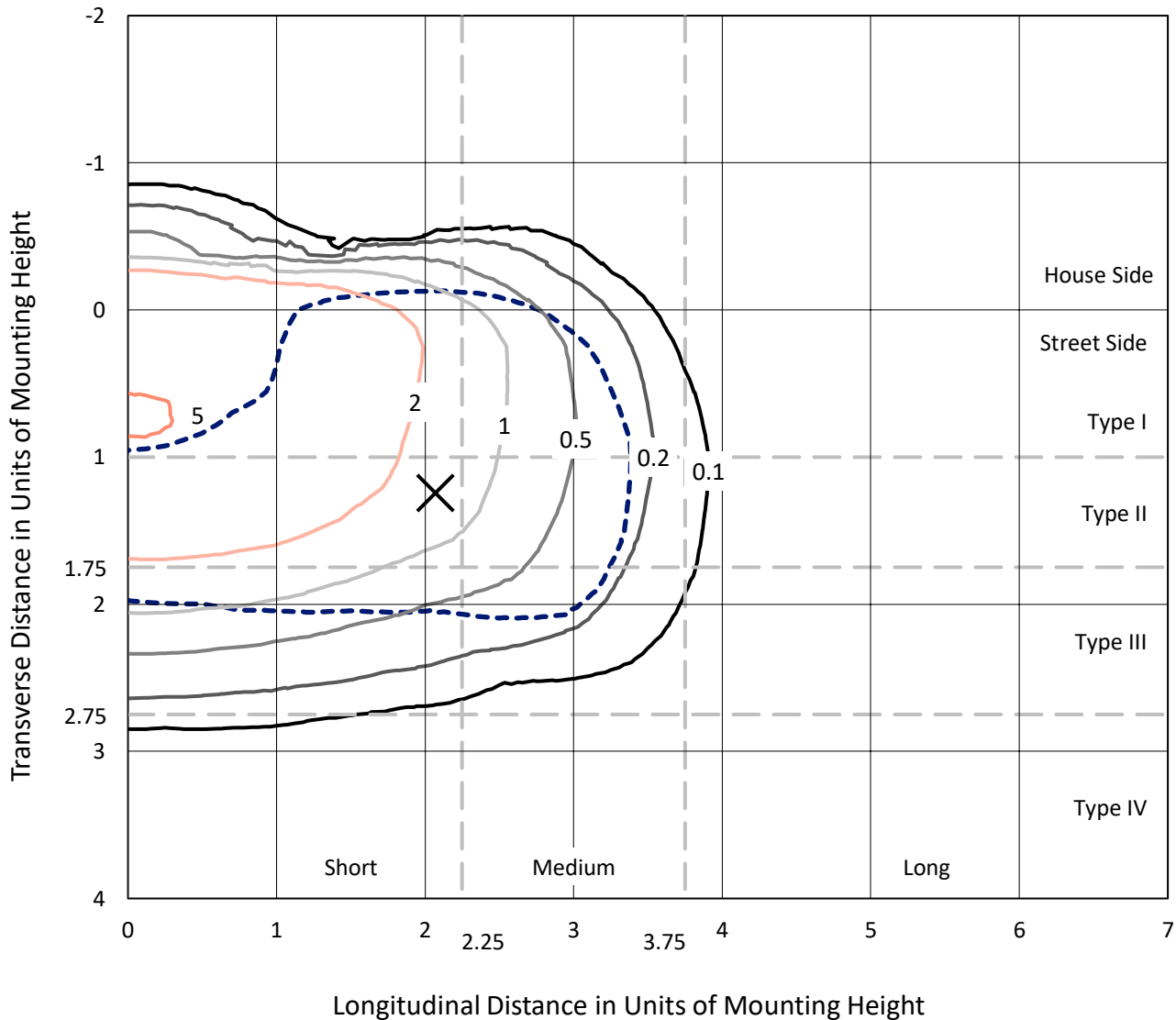
Lumens per Lamp: N/A
Luminaire Lumens: 21138.2 lumens
Efficiency: N/A
Efficacy: 84.7 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 249.7
Input Voltage (V): 120
Input Current (A_{in}): 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: P482391
 CATALOG NUMBER: IFLD-M-SA4D-730-U-T3-HSS

Iso-Footcandle Lines of Horizontal Illumination

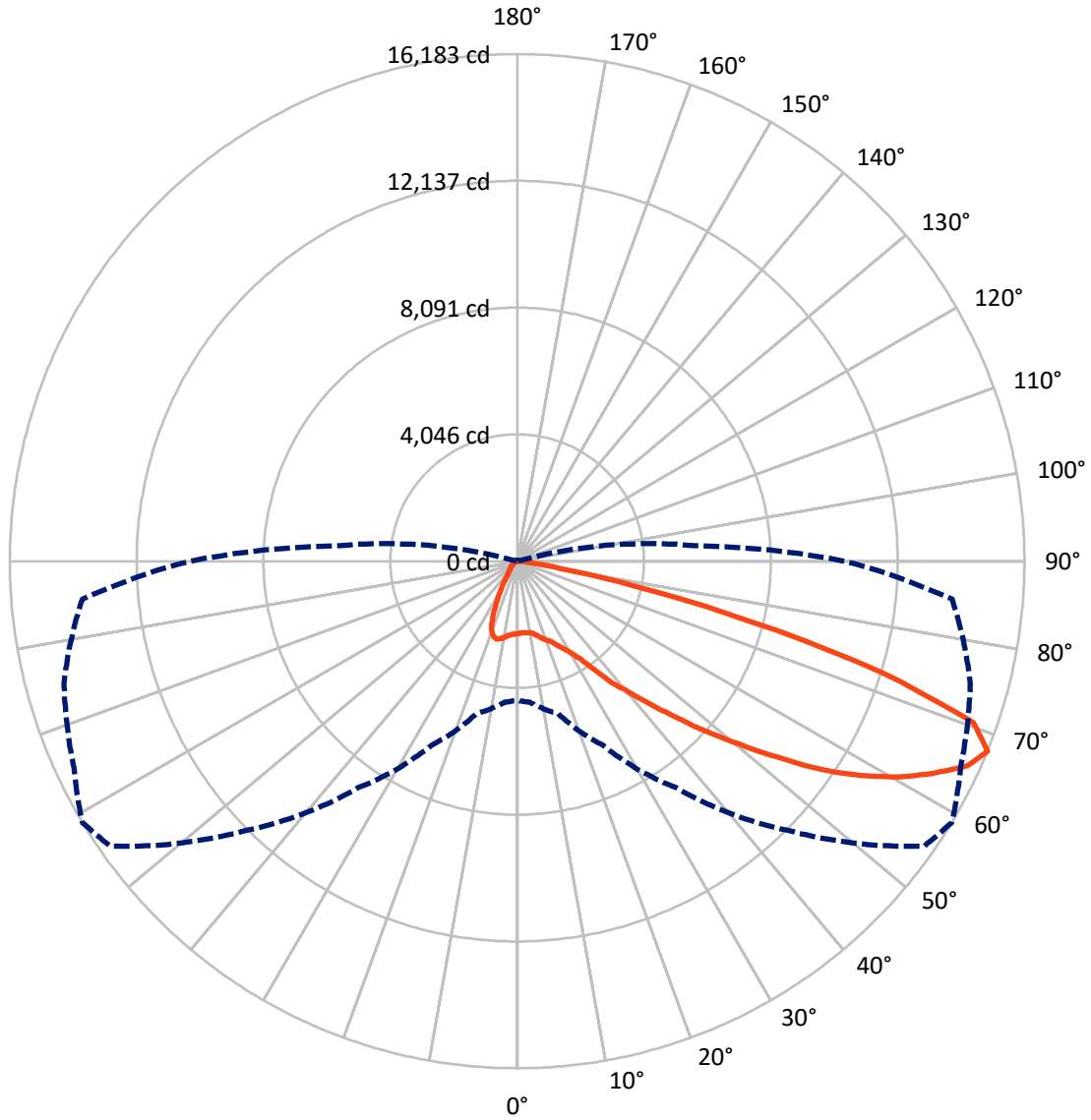
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 fc
 Type III - Short - N/A

REPORT NUMBER: P482391
CATALOG NUMBER: IFLD-M-SA4D-730-U-T3-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P482391
 CATALOG NUMBER: IFLD-M-SA4D-730-U-T3-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2483.0	0.0	2483.0
	% Fixture	11.7	0.0	11.7
Street Side	Lumens	18655.1	0.0	18655.1
	% Fixture	88.3	0.0	88.3
Total	Lumens	21138.2	0.0	21138.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	220.2	1.0
10°-20°	636.2	3.0
20°-30°	1111.9	5.3
30°-40°	1957.5	9.3
40°-50°	3460.3	16.4
50°-60°	5478.9	25.9
60°-70°	6077.6	28.8
70°-80°	2108.8	10.0
80°-90°	86.8	0.4
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°	21138.2	100.0
0°-180°	21138.2	100.0

Coefficient of Utilization

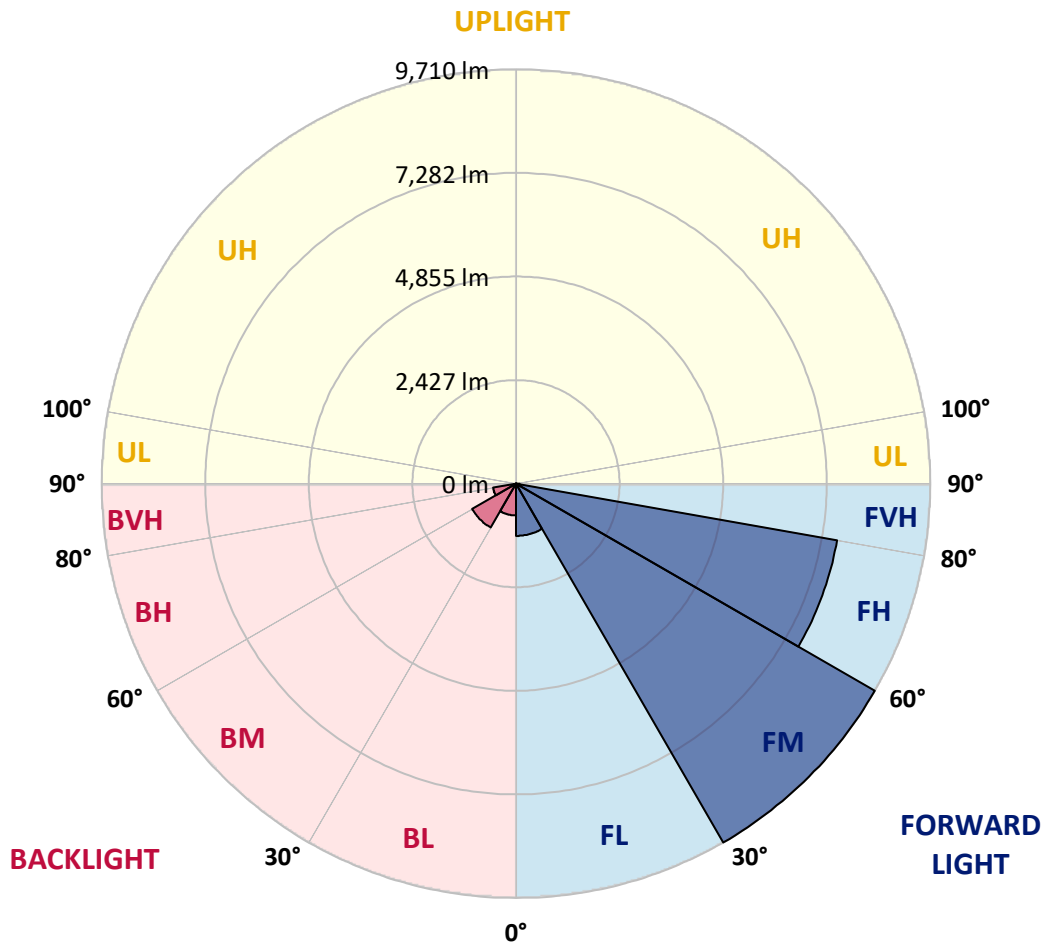


REPORT NUMBER: P482391
 CATALOG NUMBER: IFLD-M-SA4D-730-U-T3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1224.1	5.8			
FM (30°-60°)	9709.5	45.9			
FH (60°-80°)	7640.3	36.1			G4/12000
FVH (80°-90°)	81.2	0.4			G1/100
BL (0°-30°)	744.2	3.5	B2/1000		
BM (30°-60°)	1187.2	5.6	B2/2500		
BH (60°-80°)	546.1	2.6	B2/1000		G2/1000
BVH (80°-90°)	5.6	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 III Short





REPORT NUMBER: P482391

CATALOG NUMBER: IFLD-M-SA4D-730-U-T3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	2318.5	2318.5	2318.5	2318.5	2318.5	2318.5	2318.5	2318.5	2318.5	2318.5	2318.5
2.5°	2251.3	2219.2	2248.4	2251.3	2254.2	2280.5	2309.7	2289.3	2286.4	2309.7	2330.2
5°	2160.8	2146.2	2181.2	2198.8	2228.0	2251.3	2298.0	2301.0	2303.9	2330.2	2365.2
7.5°	2122.8	2087.8	2128.7	2149.1	2169.6	2225.0	2280.5	2309.7	2350.6	2382.7	2417.8
10°	2046.9	2073.2	2084.9	2119.9	2178.3	2242.6	2309.7	2324.3	2414.8	2441.1	2525.8
12.5°	2073.2	2090.7	2114.1	2122.8	2187.1	2283.4	2374.0	2379.8	2473.2	2587.1	2630.9
15°	2140.4	2128.7	2137.4	2149.1	2225.0	2303.9	2449.9	2476.2	2563.8	2692.2	2800.3
17.5°	2283.4	2263.0	2248.4	2245.5	2263.0	2336.0	2508.3	2587.1	2668.9	2844.1	2899.6
20°	2642.6	2625.1	2566.7	2414.8	2362.3	2391.5	2578.4	2689.3	2803.2	2998.8	3089.4
22.5°	3188.6	3206.2	3068.9	2855.8	2636.8	2522.9	2689.3	2785.7	2966.7	3214.9	3296.7
25°	3834.0	3798.9	3632.5	3384.3	3039.7	2771.1	2867.4	2975.5	3197.4	3401.8	3433.9
27.5°	4339.1	4298.2	4169.8	3869.0	3571.2	3136.1	3101.0	3168.2	3431.0	3615.0	3579.9
30°	4838.4	4853.0	4765.4	4409.2	4041.3	3582.8	3360.9	3390.1	3591.6	3828.1	3749.3
32.5°	5475.0	5439.9	5390.3	5077.9	4642.8	4152.2	3772.6	3725.9	3813.5	4126.0	4032.5
35°	6067.7	6047.3	5980.1	5664.8	5285.2	4750.8	4380.0	4274.9	4254.4	4601.9	4438.4
37.5°	6584.6	6549.5	6447.3	6245.9	5877.9	5428.3	5022.4	4929.0	4926.0	5165.5	4850.1
40°	7019.7	7045.9	7034.3	6812.3	6610.9	6251.7	5629.7	5480.8	5469.1	5597.6	5413.7
42.5°	7583.2	7644.5	7612.4	7568.6	7326.3	7186.1	6482.4	6254.6	6152.4	6415.2	6248.8
45°	8435.9	8459.2	8479.7	8371.6	8129.3	8158.5	7364.2	7092.7	7066.4	7457.7	7083.9
47.5°	9233.0	9171.7	9314.8	9320.6	9308.9	9174.6	8316.1	8114.7	8149.7	8447.5	8062.1
50°	9431.6	9589.3	9983.5	10056.5	10246.3	10368.9	9373.2	9171.7	9230.1	9568.8	9127.9
52.5°	9586.3	9825.8	10220.0	10754.3	11265.3	11557.3	10555.8	10392.3	10389.3	10596.7	9989.3
55°	9857.9	10003.9	10345.5	11081.4	12053.7	12532.6	11980.7	11717.9	11481.4	11627.4	10882.8
57.5°	9831.6	9887.1	10418.5	11326.7	12678.6	13548.8	13151.7	12900.5	12596.9	12512.2	11910.7
60°	9370.3	9501.7	10097.3	11160.2	13064.1	14340.1	14243.7	13986.8	13464.1	13265.5	12699.1
62.5°	8456.3	8631.5	9098.7	10576.2	12503.4	14381.0	14997.1	14900.7	14316.7	13960.5	13726.9
65°	6853.2	6935.0	7472.3	9092.9	11236.1	13753.2	15887.7	15768.0	15230.7	14699.3	14255.4
67.5°	4438.4	4517.2	5034.1	6491.1	8824.2	12132.6	15852.7	16182.6	15601.5	14962.1	13925.5
70°	2096.6	2076.1	2557.9	3606.2	5653.1	9265.1	14781.0	15432.2	14938.7	13563.4	11566.1
72.5°	639.5	695.0	1062.9	1597.2	2902.5	5778.7	11586.5	12196.8	12042.1	10836.1	7720.5
75°	283.2	306.6	417.6	654.1	1176.8	2371.0	7156.9	7700.0	7632.9	6391.9	3524.4
77.5°	181.0	198.6	262.8	373.8	534.4	753.4	3296.7	3825.2	3708.4	2245.5	922.7
80°	128.5	137.2	186.9	257.0	335.8	309.5	1135.9	1349.0	1293.6	610.3	248.2
82.5°	70.1	75.9	137.2	189.8	224.8	157.7	318.3	397.1	414.6	271.6	119.7
85°	26.3	32.1	84.7	134.3	116.8	73.0	93.4	113.9	148.9	148.9	55.5
87.5°	0.0	2.9	35.0	58.4	29.2	20.4	26.3	32.1	40.9	70.1	20.4
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: P482391
 CATALOG NUMBER: IFLD-M-SA4D-730-U-T3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2318.5	2318.5	2318.5	2318.5	2318.5	2318.5	2318.5	2318.5	2318.5	2318.5	2318.5
2.5°	2344.8	2324.3	2333.1	2347.7	2315.6	2333.1	2298.0	2324.3	2333.1	2298.0	2315.6
5°	2374.0	2394.4	2382.7	2359.4	2338.9	2344.8	2336.0	2315.6	2333.1	2338.9	2327.2
7.5°	2458.6	2435.3	2441.1	2414.8	2374.0	2371.0	2315.6	2301.0	2306.8	2312.6	2292.2
10°	2537.5	2552.1	2522.9	2502.4	2435.3	2391.5	2315.6	2233.8	2225.0	2190.0	2219.2
12.5°	2677.6	2642.6	2630.9	2563.8	2496.6	2350.6	2187.1	2061.5	1956.4	1918.4	1880.5
15°	2794.4	2788.6	2768.2	2666.0	2511.2	2245.5	1936.0	1644.0	1442.5	1316.9	1299.4
17.5°	2955.0	2928.8	2890.8	2730.2	2403.2	1971.0	1442.5	1074.6	873.1	794.2	765.0
20°	3077.7	3057.2	3004.7	2715.6	2207.5	1468.8	893.5	683.3	633.6	619.0	622.0
22.5°	3255.8	3191.6	3092.3	2642.6	1851.3	978.2	642.4	610.3	601.5	589.8	592.8
25°	3410.6	3352.2	3144.8	2517.0	1319.8	648.2	595.7	578.2	563.6	549.0	546.0
27.5°	3547.8	3474.8	3200.3	2260.1	826.4	557.7	551.9	531.4	502.2	478.9	470.1
30°	3682.1	3597.4	3214.9	1778.3	557.7	505.2	490.6	458.4	420.5	388.4	382.5
32.5°	3907.0	3804.8	3194.5	1270.2	481.8	449.7	417.6	379.6	324.1	297.8	292.0
35°	4257.4	4102.6	3168.2	747.5	432.2	397.1	347.5	297.8	257.0	230.7	224.8
37.5°	4660.3	4391.7	3092.3	499.3	397.1	350.4	286.2	236.5	201.5	181.0	175.2
40°	5258.9	4815.1	2800.3	408.8	353.3	297.8	230.7	186.9	160.6	146.0	140.2
42.5°	5918.8	5299.8	2350.6	367.9	312.4	254.0	184.0	151.8	131.4	116.8	116.8
45°	6710.1	5804.9	1813.3	335.8	277.4	210.2	151.8	122.6	105.1	93.4	87.6
47.5°	7592.0	6263.4	1223.5	303.7	233.6	172.3	125.6	93.4	75.9	67.2	67.2
50°	8380.4	6669.3	779.6	265.7	204.4	143.1	102.2	75.9	61.3	49.6	46.7
52.5°	9095.8	6978.8	537.3	233.6	175.2	116.8	84.7	61.3	46.7	38.0	38.0
55°	9828.7	7136.5	397.1	201.5	151.8	99.3	70.1	55.5	40.9	32.1	29.2
57.5°	10430.2	7203.6	303.7	175.2	128.5	78.8	61.3	46.7	35.0	26.3	23.4
60°	10944.1	7171.5	236.5	146.0	102.2	67.2	52.6	38.0	29.2	20.4	17.5
62.5°	11244.9	6978.8	186.9	125.6	81.8	58.4	43.8	32.1	20.4	14.6	11.7
65°	11250.7	6570.0	146.0	93.4	61.3	49.6	38.0	26.3	14.6	5.8	2.9
67.5°	10444.8	5685.2	116.8	73.0	49.6	38.0	29.2	20.4	5.8	0.0	0.0
70°	8170.1	4301.2	96.4	58.4	40.9	32.1	20.4	11.7	2.9	0.0	0.0
72.5°	5206.4	2575.4	78.8	46.7	35.0	23.4	14.6	8.8	0.0	0.0	0.0
75°	2178.3	794.2	61.3	40.9	26.3	17.5	11.7	2.9	0.0	0.0	0.0
77.5°	560.6	251.1	49.6	35.0	26.3	14.6	8.8	2.9	0.0	0.0	0.0
80°	166.4	93.4	40.9	29.2	20.4	11.7	5.8	2.9	0.0	0.0	0.0
82.5°	75.9	55.5	35.0	26.3	17.5	11.7	5.8	0.0	0.0	0.0	0.0
85°	29.2	17.5	17.5	14.6	14.6	8.8	2.9	0.0	0.0	0.0	0.0
87.5°	11.7	5.8	5.8	5.8	2.9	2.9	0.0	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)