

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: P481533

Luminaire Tested: **IFLD-M-SA4D-722-U-T2-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481533
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4D-722-U-T2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens with House Side Shield
Light Source: (64) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

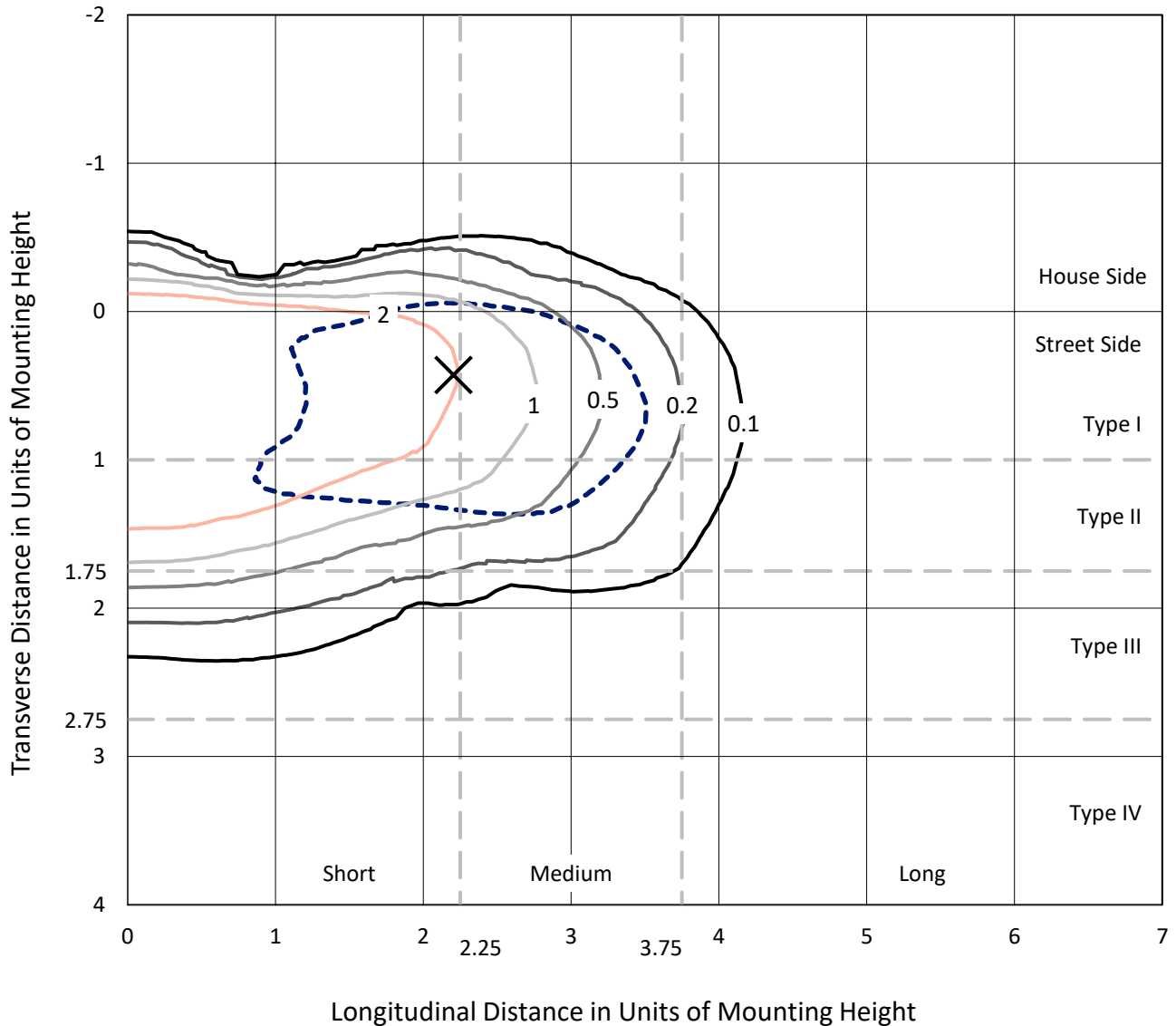
Lumens per Lamp: N/A
Luminaire Lumens: 16594.7 lumens
Efficiency: N/A
Efficacy: 66.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G3

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

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Iso-Footcandle Lines of Horizontal Illumination

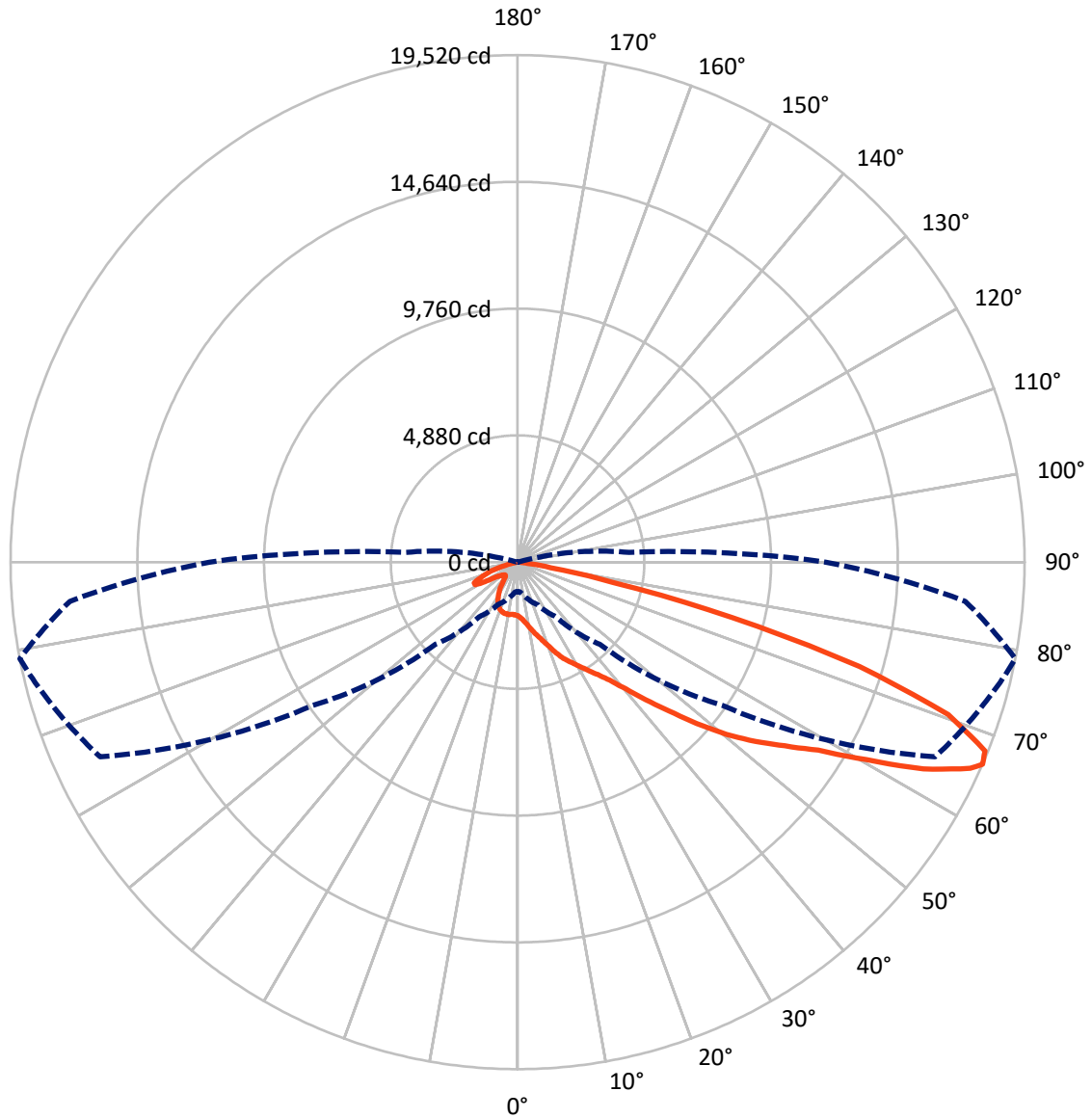
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 fc
 Type II - Short - N/A

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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	1246.0	0.0	1246.0
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	15348.7	0.0	15348.7
	% Fixture	92.5	0.0	92.5
Total	Lumens	16594.7	0.0	16594.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	195.2	1.2
10°-20°	537.4	3.2
20°-30°	892.7	5.4
30°-40°	1533.3	9.2
40°-50°	2777.8	16.7
50°-60°	4390.9	26.5
60°-70°	4468.0	26.9
70°-80°	1703.9	10.3
80°-90°	95.5	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°	16594.7	100.0
0°-180°	16594.7	100.0

Coefficient of Utilization



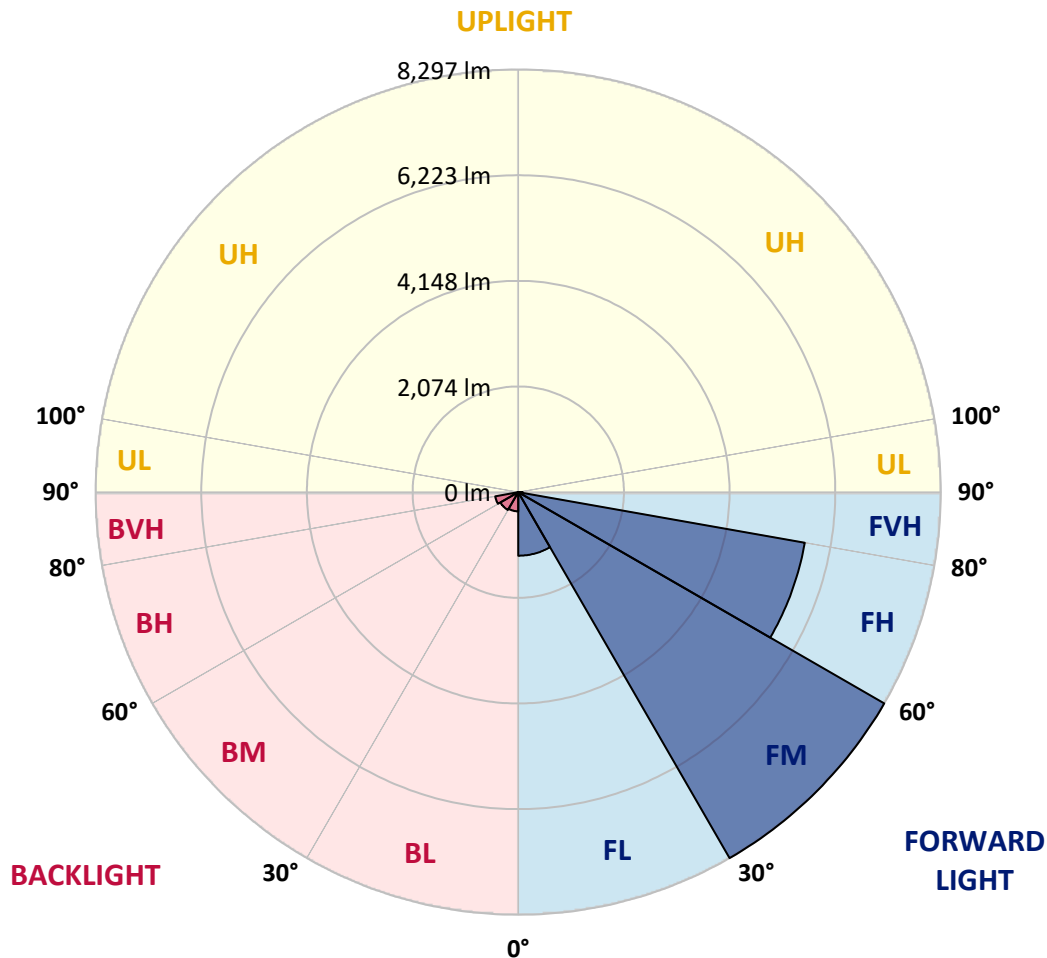
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1248.5	7.5			
FM (30°-60°)	8297.0	50.0			
FH (60°-80°)	5712.6	34.4			G3/7500
FVH (80°-90°)	90.6	0.5			G1/100
BL (0°-30°)	376.8	2.3	B1/500		
BM (30°-60°)	405.0	2.4	B1/1000		
BH (60°-80°)	459.3	2.8	B1/500		G1/500
BVH (80°-90°)	4.9	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-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	2064.6	2064.6	2064.6	2064.6	2064.6	2064.6	2064.6	2064.6	2064.6	2064.6	2064.6
2.5°	2338.3	2335.8	2325.5	2307.6	2284.6	2276.9	2243.7	2197.6	2172.0	2143.9	2131.1
5°	2499.5	2486.7	2517.4	2504.6	2509.7	2448.3	2407.4	2374.1	2276.9	2238.5	2177.1
7.5°	2535.3	2548.1	2545.5	2566.0	2586.5	2609.5	2581.4	2532.8	2435.5	2379.3	2312.7
10°	2535.3	2530.2	2550.7	2578.8	2637.6	2688.8	2765.6	2701.6	2627.4	2560.9	2440.7
12.5°	2489.3	2481.6	2502.1	2560.9	2665.8	2770.7	2855.1	2916.5	2811.6	2757.9	2601.8
15°	2348.6	2340.9	2425.3	2530.2	2668.3	2839.8	3016.3	3116.1	3044.4	2960.0	2786.0
17.5°	2174.6	2184.8	2274.4	2448.3	2668.3	2873.0	3098.1	3315.6	3305.4	3197.9	3016.3
20°	2115.7	2123.4	2213.0	2338.3	2589.0	2896.0	3226.1	3533.1	3594.5	3466.5	3228.6
22.5°	2228.3	2220.6	2228.3	2305.1	2535.3	2875.6	3310.5	3781.2	3891.2	3791.5	3507.5
25°	2612.1	2606.9	2543.0	2425.3	2504.6	2829.5	3354.0	3945.0	4198.2	4106.1	3732.6
27.5°	3174.9	3154.4	3054.7	2809.1	2647.9	2857.7	3425.6	4103.6	4466.9	4362.0	3934.7
30°	3778.7	3730.1	3599.6	3292.6	3018.8	2962.6	3466.5	4221.3	4766.2	4633.1	4111.2
32.5°	4195.7	4259.6	4218.7	3906.6	3487.0	3205.6	3533.1	4369.6	5042.5	4955.5	4413.1
35°	4840.4	4914.6	4743.2	4466.9	4044.7	3591.9	3673.8	4489.9	5467.2	5321.3	4694.5
37.5°	5653.9	5710.2	5587.4	5062.9	4617.8	4067.8	3962.9	4740.6	5833.0	5763.9	5055.3
40°	6063.3	6334.4	6160.5	5687.2	5208.8	4732.9	4441.3	5034.8	6470.0	6413.7	5554.1
42.5°	6628.6	6764.2	6674.7	6324.2	5825.3	5444.1	5032.2	5607.9	7242.6	7242.6	6229.5
45°	7227.3	7232.4	7227.3	6940.8	6498.2	6301.2	5830.4	6326.8	8074.1	8166.2	7038.0
47.5°	7718.5	7872.0	7859.2	7687.8	7345.0	7270.8	6628.6	7145.4	9117.9	9279.1	7826.0
50°	7971.8	8143.2	8194.4	8283.9	8268.5	8424.6	7501.0	8094.6	10018.4	10415.0	8839.1
52.5°	7902.7	7915.5	8230.2	8583.2	9146.1	9583.5	8552.5	9171.6	11072.5	11463.9	9621.9
55°	7337.3	7288.7	7936.0	8340.2	9504.2	10292.2	10008.2	10514.8	11893.7	12489.8	10430.3
57.5°	6096.5	6109.3	6708.0	7529.2	9238.2	10573.6	11563.7	12269.8	13045.0	13646.2	11566.2
60°	4208.5	4193.1	4863.4	5812.5	7675.0	10049.1	12459.1	14544.1	14585.1	15437.0	13605.2
62.5°	2366.5	2371.6	2880.7	3691.7	5369.9	8212.3	12415.6	16959.2	16785.2	17532.3	15923.1
65°	1340.6	1373.8	1724.3	2187.4	3215.8	5513.2	10678.5	17921.1	18481.4	19146.6	17330.2
66°	1133.3	1156.4	1455.7	1806.2	2566.0	4472.0	9611.7	17734.4	19013.6	19520.1	17302.0
67.5°	877.5	908.2	1158.9	1432.7	1882.9	3095.6	7736.4	16805.7	19110.8	19407.5	16813.4
70°	601.2	621.7	813.6	1087.3	1286.8	1583.6	4625.5	13894.3	17340.4	17591.1	14613.2
72.5°	422.1	432.4	570.5	823.8	990.1	905.7	2294.8	9885.4	13270.1	13758.7	11366.7
75°	304.4	314.7	391.4	591.0	772.6	593.5	1051.5	6314.0	8138.1	8521.8	6846.1
77.5°	220.0	232.8	266.1	381.2	560.3	417.0	516.8	3297.7	3837.5	3771.0	2944.6
80°	133.0	145.8	197.0	245.6	409.3	294.2	284.0	1376.4	1361.0	1292.0	926.1
82.5°	61.4	71.6	104.9	166.3	286.5	204.7	135.6	491.2	429.8	394.0	261.0
85°	17.9	23.0	61.4	125.4	145.8	99.8	81.9	168.9	176.5	150.9	87.0
87.5°	0.0	2.6	28.1	30.7	43.5	33.3	30.7	43.5	81.9	66.5	28.1
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°	2064.6	2064.6	2064.6	2064.6	2064.6	2064.6	2064.6	2064.6	2064.6	2064.6	2064.6
2.5°	2085.0	2067.1	2023.6	1957.1	1898.3	1867.6	1824.1	1785.7	1765.3	1762.7	1760.1
5°	2136.2	2087.6	1982.7	1862.5	1772.9	1675.7	1609.2	1560.6	1514.5	1471.0	1496.6
7.5°	2205.3	2128.5	1957.1	1801.1	1606.6	1481.3	1363.6	1294.5	1253.6	1215.2	1210.1
10°	2312.7	2215.5	1939.2	1657.8	1435.2	1251.0	1130.8	1031.0	974.7	908.2	933.8
12.5°	2458.6	2284.6	1872.7	1527.3	1240.8	1046.4	875.0	713.8	624.2	555.2	557.7
15°	2604.4	2376.7	1811.3	1368.7	1064.3	808.4	557.7	447.7	422.1	406.8	411.9
17.5°	2747.7	2450.9	1716.6	1207.5	862.2	514.2	406.8	383.8	371.0	355.6	355.6
20°	2921.6	2499.5	1599.0	1059.2	593.5	381.2	347.9	332.6	312.1	291.7	294.2
22.5°	3090.5	2540.4	1463.4	869.8	399.1	330.0	291.7	271.2	253.3	232.8	232.8
25°	3259.3	2553.2	1286.8	624.2	322.4	263.5	227.7	199.6	181.6	163.7	166.3
27.5°	3374.4	2473.9	1120.6	399.1	258.4	199.6	158.6	135.6	120.2	102.3	102.3
30°	3441.0	2328.1	941.5	281.4	194.4	135.6	94.7	71.6	56.3	43.5	40.9
32.5°	3507.5	2210.4	739.4	214.9	127.9	71.6	35.8	12.8	0.0	0.0	0.0
35°	3640.5	2077.4	496.3	120.2	43.5	2.6	0.0	0.0	0.0	0.0	0.0
37.5°	3724.9	1893.2	227.7	17.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	3937.3	1801.1	56.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	4282.7	1737.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	4661.3	1711.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	5165.3	1780.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	5697.4	1967.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	6280.7	2143.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	6789.8	2356.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	7726.2	2857.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	9407.0	3842.6	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	11300.2	4574.3	28.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	11993.5	4556.4	48.6	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	11870.7	4305.7	48.6	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	11233.7	3824.7	43.5	5.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	9647.5	3159.5	43.5	7.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	7355.2	2461.1	40.9	10.2	2.6	0.0	0.0	0.0	0.0	0.0	0.0
75°	4438.7	1309.9	33.3	12.8	5.1	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	1767.8	460.5	25.6	10.2	5.1	0.0	0.0	0.0	0.0	0.0	0.0
80°	478.4	138.2	15.4	10.2	7.7	2.6	0.0	0.0	0.0	0.0	0.0
82.5°	125.4	51.2	12.8	10.2	5.1	2.6	0.0	0.0	0.0	0.0	0.0
85°	48.6	20.5	10.2	7.7	7.7	5.1	2.6	0.0	0.0	0.0	0.0
87.5°	15.4	7.7	7.7	5.1	5.1	2.6	2.6	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)