

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: P481844

Luminaire Tested: **IFLD-M-SA4C-830-U-T2-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481844
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4C-830-U-T2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens with House Side Shield
Light Source: (64) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

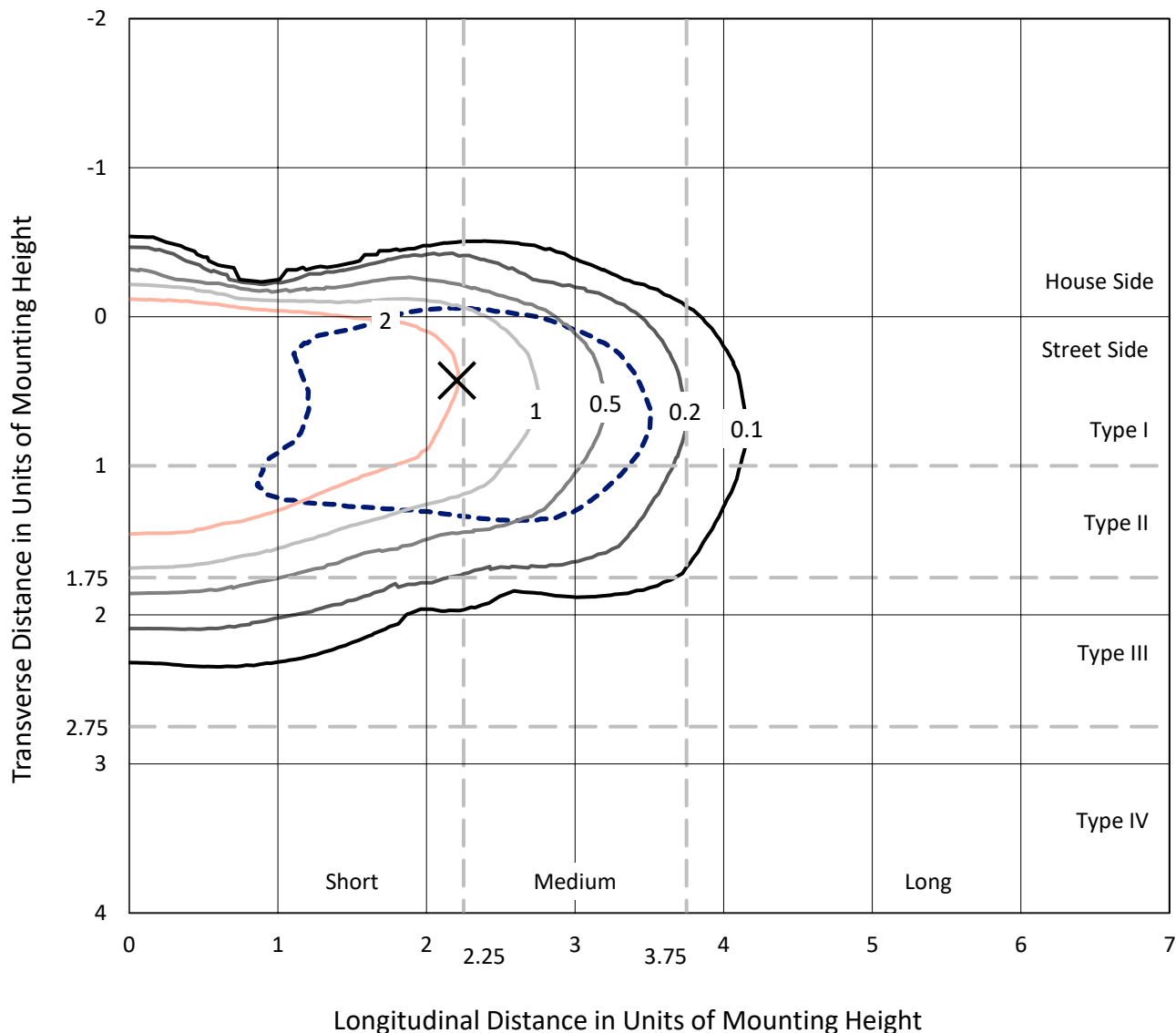
Lumens per Lamp: N/A
Luminaire Lumens: 16269.2 lumens
Efficiency: N/A
Efficacy: 74.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G3

Input Watts (W): 218.1
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

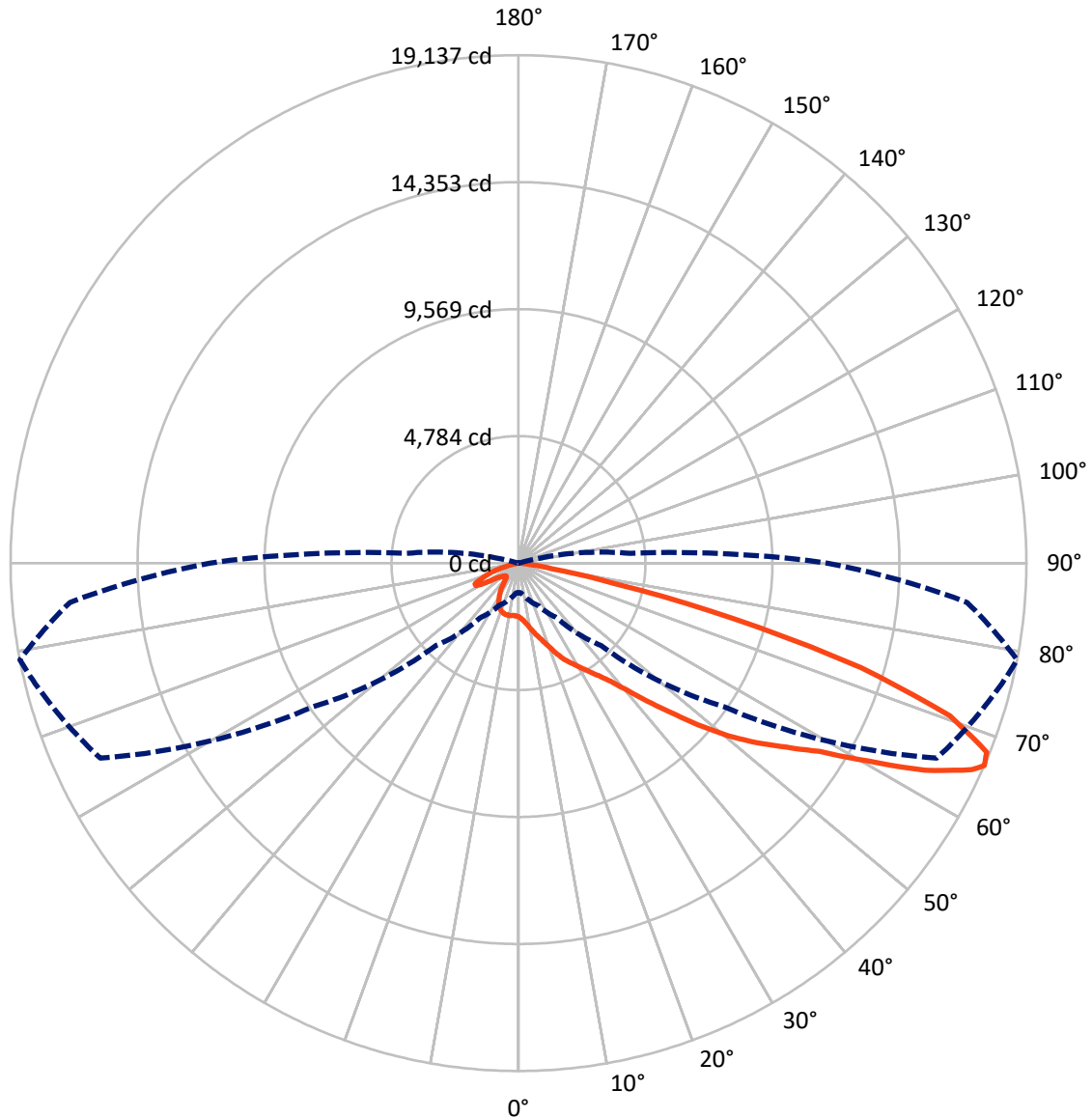
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 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	1221.6	0.0	1221.6
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	15047.6	0.0	15047.6
	% Fixture	92.5	0.0	92.5
Total	Lumens	16269.2	0.0	16269.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	191.4	1.2
10°-20°	526.8	3.2
20°-30°	875.2	5.4
30°-40°	1503.2	9.2
40°-50°	2723.3	16.7
50°-60°	4304.7	26.5
60°-70°	4380.4	26.9
70°-80°	1670.5	10.3
80°-90°	93.6	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°	16269.2	100.0
0°-180°	16269.2	100.0

Coefficient of Utilization

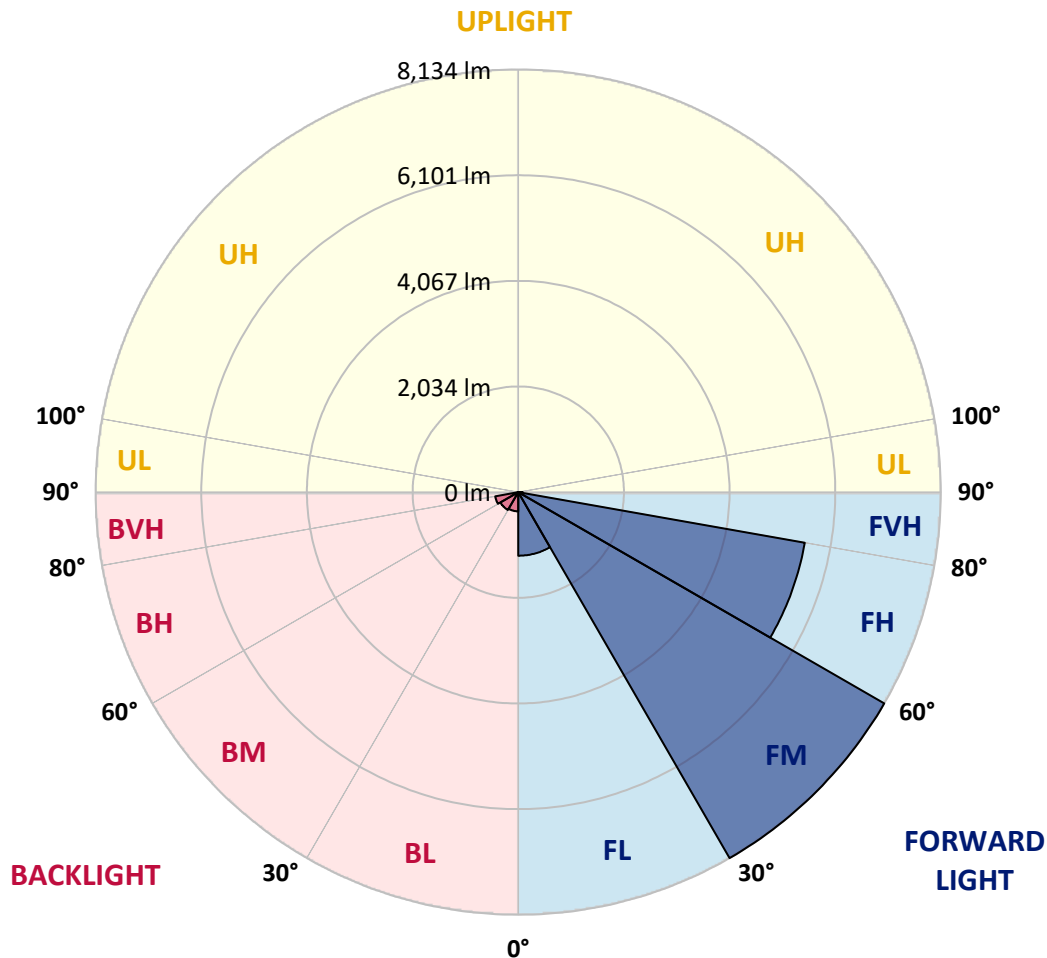


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1224.0	7.5			
FM (30°-60°)	8134.2	50.0			
FH (60°-80°)	5600.5	34.4			G3/7500
FVH (80°-90°)	88.9	0.5			G1/100
BL (0°-30°)	369.4	2.3	B1/500		
BM (30°-60°)	397.0	2.4	B1/1000		
BH (60°-80°)	450.3	2.8	B1/500		G1/500
BVH (80°-90°)	4.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	2024.1	2024.1	2024.1	2024.1	2024.1	2024.1	2024.1	2024.1	2024.1	2024.1	2024.1
2.5°	2292.5	2290.0	2279.9	2262.4	2239.8	2232.3	2199.7	2154.5	2129.4	2101.8	2089.3
5°	2450.5	2437.9	2468.0	2455.5	2460.5	2400.3	2360.2	2327.6	2232.3	2194.6	2134.4
7.5°	2485.6	2498.1	2495.6	2515.7	2535.8	2558.3	2530.7	2483.1	2387.8	2332.6	2267.4
10°	2485.6	2480.6	2500.6	2528.2	2585.9	2636.1	2711.3	2648.6	2575.9	2510.7	2392.8
12.5°	2440.4	2432.9	2453.0	2510.7	2613.5	2716.3	2799.1	2859.3	2756.5	2703.8	2550.8
15°	2302.5	2295.0	2377.7	2480.6	2616.0	2784.1	2957.1	3054.9	2984.7	2901.9	2731.4
17.5°	2131.9	2142.0	2229.8	2400.3	2616.0	2816.7	3037.4	3250.6	3240.5	3135.2	2957.1
20°	2074.3	2081.8	2169.6	2292.5	2538.3	2839.2	3162.8	3463.8	3524.0	3398.6	3165.3
22.5°	2184.6	2177.1	2184.6	2259.9	2485.6	2819.2	3245.6	3707.1	3814.9	3717.1	3438.7
25°	2560.8	2555.8	2493.1	2377.7	2455.5	2774.0	3288.2	3867.6	4115.9	4025.6	3659.4
27.5°	3112.6	3092.6	2994.7	2754.0	2595.9	2801.6	3358.4	4023.1	4379.3	4276.4	3857.6
30°	3704.6	3656.9	3529.0	3228.0	2959.6	2904.5	3398.6	4138.5	4672.7	4542.3	4030.6
32.5°	4113.4	4176.1	4136.0	3830.0	3418.6	3142.7	3463.8	4283.9	4943.6	4858.3	4326.6
35°	4745.4	4818.2	4650.1	4379.3	3965.4	3521.5	3601.7	4401.8	5359.9	5217.0	4602.5
37.5°	5543.0	5598.2	5477.8	4963.7	4527.2	3988.0	3885.1	4647.6	5718.6	5650.9	4956.1
40°	5944.3	6210.2	6039.7	5575.6	5106.6	4640.1	4354.2	4936.1	6343.1	6288.0	5445.2
42.5°	6498.7	6631.6	6543.8	6200.2	5711.1	5337.4	4933.6	5497.9	7100.6	7100.6	6107.4
45°	7085.6	7090.6	7085.6	6804.6	6370.7	6177.6	5716.1	6202.7	7915.8	8006.1	6900.0
47.5°	7567.1	7717.6	7705.1	7537.0	7200.9	7128.2	6498.7	7005.3	8939.1	9097.1	7672.5
50°	7815.4	7983.5	8033.6	8121.4	8106.4	8259.4	7353.9	7935.8	9822.0	10210.7	8665.7
52.5°	7747.7	7760.3	8068.8	8414.9	8966.7	9395.6	8384.8	8991.8	10855.3	11239.1	9433.2
55°	7193.4	7145.8	7780.3	8176.6	9317.8	10090.3	9811.9	10308.5	11660.4	12244.9	10225.8
57.5°	5977.0	5989.5	6576.4	7381.5	9057.0	10366.2	11336.9	12029.1	12789.1	13378.5	11339.4
60°	4125.9	4110.9	4768.0	5698.5	7524.5	9852.1	12214.8	14258.9	14299.0	15134.3	13338.4
62.5°	2320.1	2325.1	2824.2	3619.3	5264.6	8051.2	12172.1	16626.6	16456.1	17188.4	15610.8
65°	1314.3	1346.9	1690.5	2144.5	3152.8	5405.1	10469.1	17569.7	18119.0	18771.1	16990.3
66°	1111.1	1133.7	1427.1	1770.8	2515.7	4384.3	9423.2	17386.6	18640.7	19137.3	16962.7
67.5°	860.3	890.4	1136.2	1404.6	1846.0	3034.9	7584.7	16476.1	18736.0	19026.9	16483.6
70°	589.4	609.5	797.6	1066.0	1261.6	1552.6	4534.8	13621.8	17000.3	17246.1	14326.6
72.5°	413.8	423.9	559.3	807.6	970.7	887.9	2249.8	9691.5	13009.8	13488.9	11143.8
75°	298.5	308.5	383.7	579.4	757.5	581.9	1030.9	6190.1	7978.5	8354.7	6711.8
77.5°	215.7	228.2	260.8	373.7	549.3	408.8	506.6	3233.0	3762.2	3697.0	2886.9
80°	130.4	143.0	193.1	240.8	401.3	288.4	278.4	1349.4	1334.3	1266.6	908.0
82.5°	60.2	70.2	102.8	163.0	280.9	200.7	132.9	481.6	421.4	386.3	255.8
85°	17.6	22.6	60.2	122.9	143.0	97.8	80.3	165.5	173.1	148.0	85.3
87.5°	0.0	2.5	27.6	30.1	42.6	32.6	30.1	42.6	80.3	65.2	27.6
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°	2024.1	2024.1	2024.1	2024.1	2024.1	2024.1	2024.1	2024.1	2024.1	2024.1	2024.1
2.5°	2044.2	2026.6	1984.0	1918.7	1861.1	1831.0	1788.3	1750.7	1730.6	1728.1	1725.6
5°	2094.3	2046.7	1943.8	1825.9	1738.2	1642.8	1577.6	1530.0	1484.8	1442.2	1467.3
7.5°	2162.0	2086.8	1918.7	1765.7	1575.1	1452.2	1336.9	1269.1	1229.0	1191.4	1186.4
10°	2267.4	2172.1	1901.2	1625.3	1407.1	1226.5	1108.6	1010.8	955.6	890.4	915.5
12.5°	2410.3	2239.8	1836.0	1497.4	1216.5	1025.8	857.8	699.8	612.0	544.3	546.8
15°	2553.3	2330.1	1775.8	1341.9	1043.4	792.6	546.8	438.9	413.8	398.8	403.8
17.5°	2693.8	2402.8	1683.0	1183.9	845.3	504.1	398.8	376.2	363.7	348.6	348.6
20°	2864.3	2450.5	1567.6	1038.4	581.9	373.7	341.1	326.1	306.0	285.9	288.4
22.5°	3029.9	2490.6	1434.7	852.8	391.3	323.6	285.9	265.9	248.3	228.2	228.2
25°	3195.4	2503.1	1261.6	612.0	316.0	258.3	223.2	195.6	178.1	160.5	163.0
27.5°	3308.3	2425.4	1098.6	391.3	253.3	195.6	155.5	132.9	117.9	100.3	100.3
30°	3373.5	2282.4	923.0	275.9	190.6	132.9	92.8	70.2	55.2	42.6	40.1
32.5°	3438.7	2167.1	724.9	210.7	125.4	70.2	35.1	12.5	0.0	0.0	0.0
35°	3569.1	2036.6	486.6	117.9	42.6	2.5	0.0	0.0	0.0	0.0	0.0
37.5°	3651.9	1856.0	223.2	17.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	3860.1	1765.7	55.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	4198.7	1703.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	4569.9	1678.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	5064.0	1745.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	5585.7	1928.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	6157.5	2101.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	6656.7	2310.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	7574.7	2801.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	9222.5	3767.3	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	11078.6	4484.6	27.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	11758.3	4467.0	47.7	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	11637.9	4221.2	47.7	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	11013.3	3749.7	42.6	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	9458.3	3097.6	42.6	7.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	7211.0	2412.9	40.1	10.0	2.5	0.0	0.0	0.0	0.0	0.0	0.0
75°	4351.7	1284.2	32.6	12.5	5.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	1733.1	451.5	25.1	10.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	469.0	135.4	15.0	10.0	7.5	2.5	0.0	0.0	0.0	0.0	0.0
82.5°	122.9	50.2	12.5	10.0	5.0	2.5	0.0	0.0	0.0	0.0	0.0
85°	47.7	20.1	10.0	7.5	7.5	5.0	2.5	0.0	0.0	0.0	0.0
87.5°	15.0	7.5	7.5	5.0	5.0	2.5	2.5	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)