

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: P482233

Luminaire Tested: **IFLD-M-SA4B-830-U-T2R-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P482233
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4B-830-U-T2R-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens with House Side Shield
Light Source: (64) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

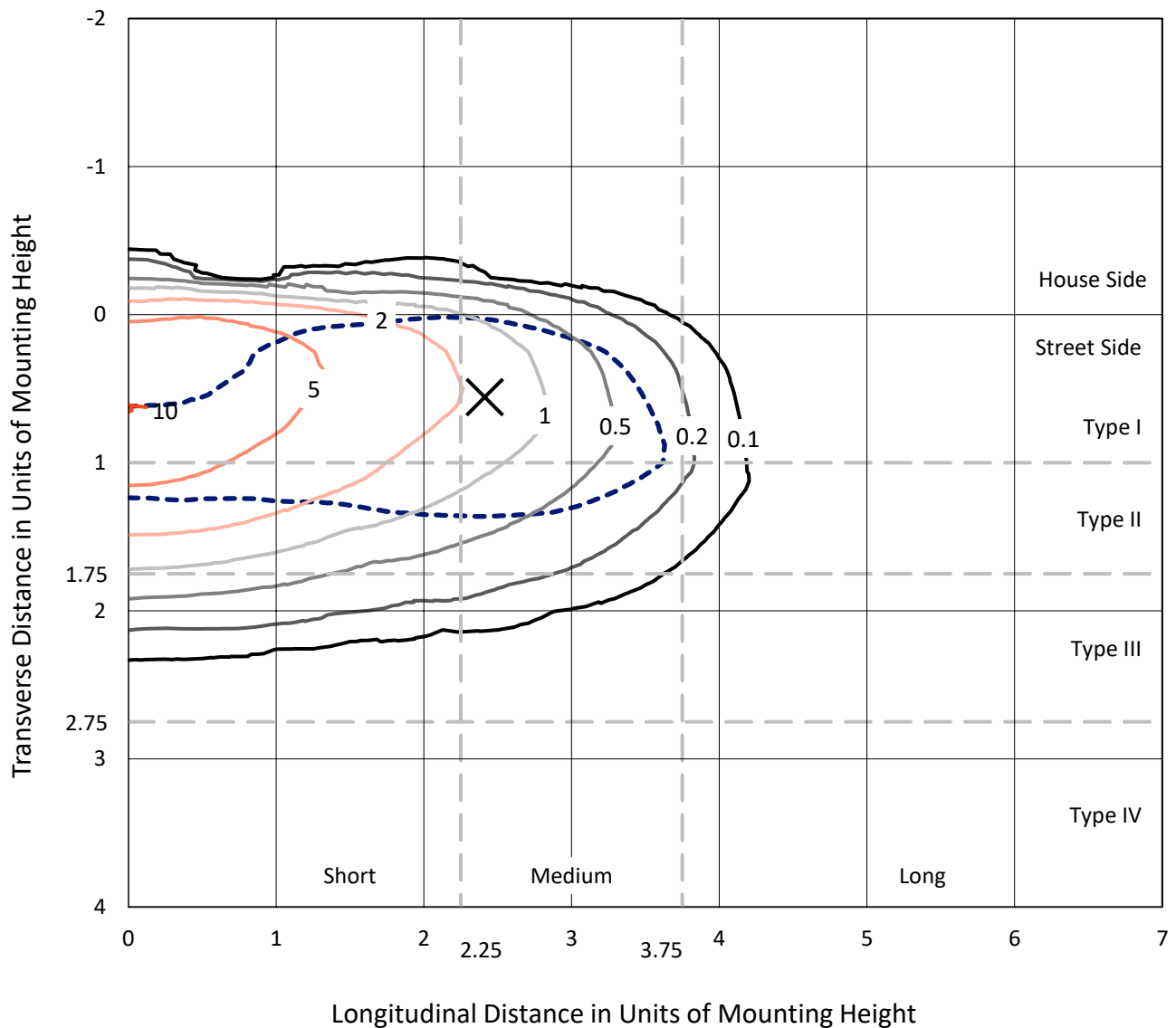
Lumens per Lamp: N/A
Luminaire Lumens: 14268.3 lumens
Efficiency: N/A
Efficacy: 85.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 166.1
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

REPORT NUMBER: P482233
 CATALOG NUMBER: IFLD-M-SA4B-830-U-T2R-HSS

Iso-Footcandle Lines of Horizontal Illumination

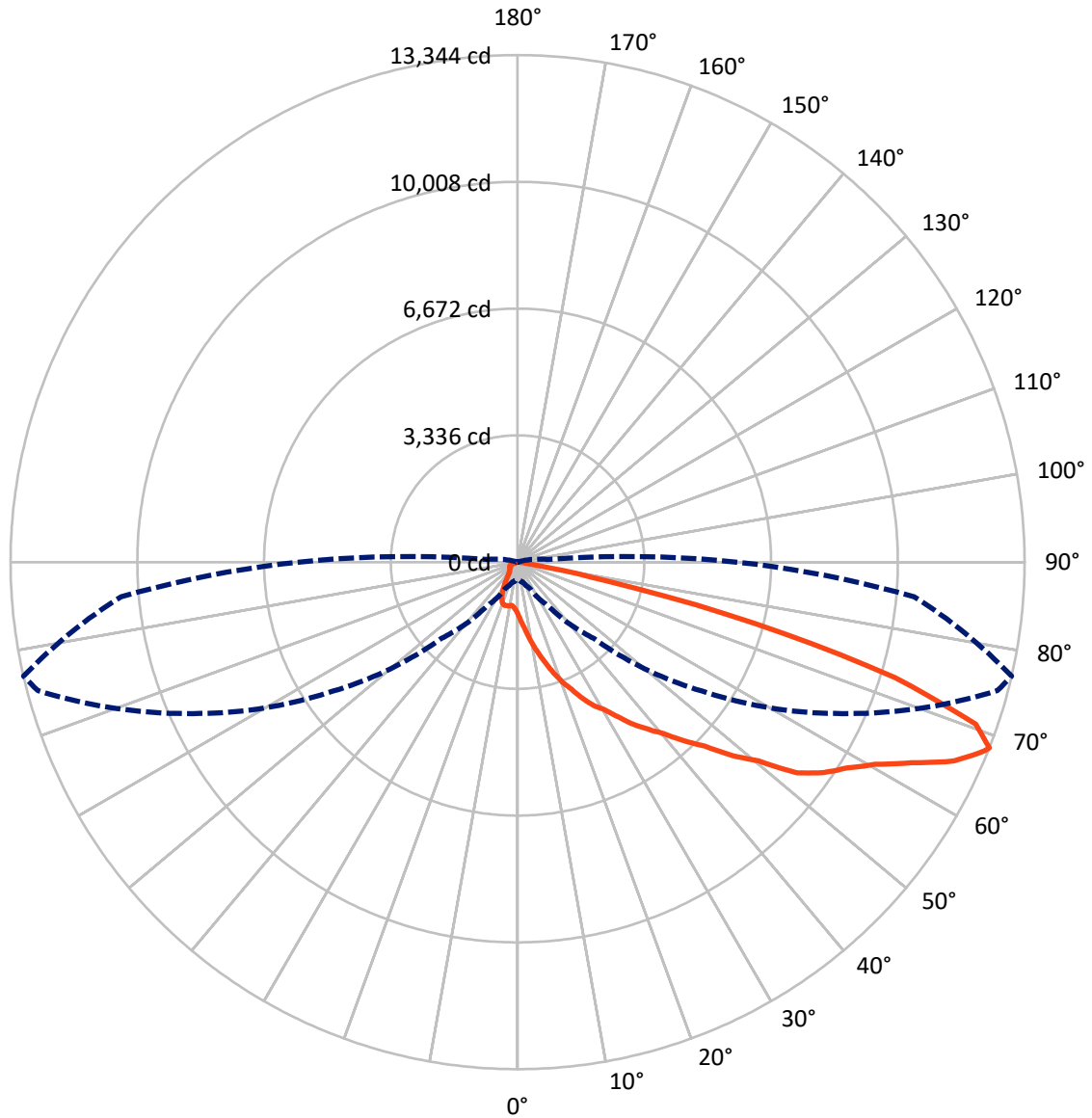
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 10.1 fc
 Type II - Medium - N/A

REPORT NUMBER: P482233
CATALOG NUMBER: IFLD-M-SA4B-830-U-T2R-HSS

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	647.1	0.0	647.1
	% Fixture	4.5	0.0	4.5
Street Side	Lumens	13621.2	0.0	13621.2
	% Fixture	95.5	0.0	95.5
Total	Lumens	14268.3	0.0	14268.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.6	1.1
10°-20°	588.7	4.1
20°-30°	1140.8	8.0
30°-40°	1988.8	13.9
40°-50°	2912.8	20.4
50°-60°	3422.1	24.0
60°-70°	2889.7	20.3
70°-80°	1120.1	7.9
80°-90°	45.5	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°	14268.3	100.0
0°-180°	14268.3	100.0

Coefficient of Utilization



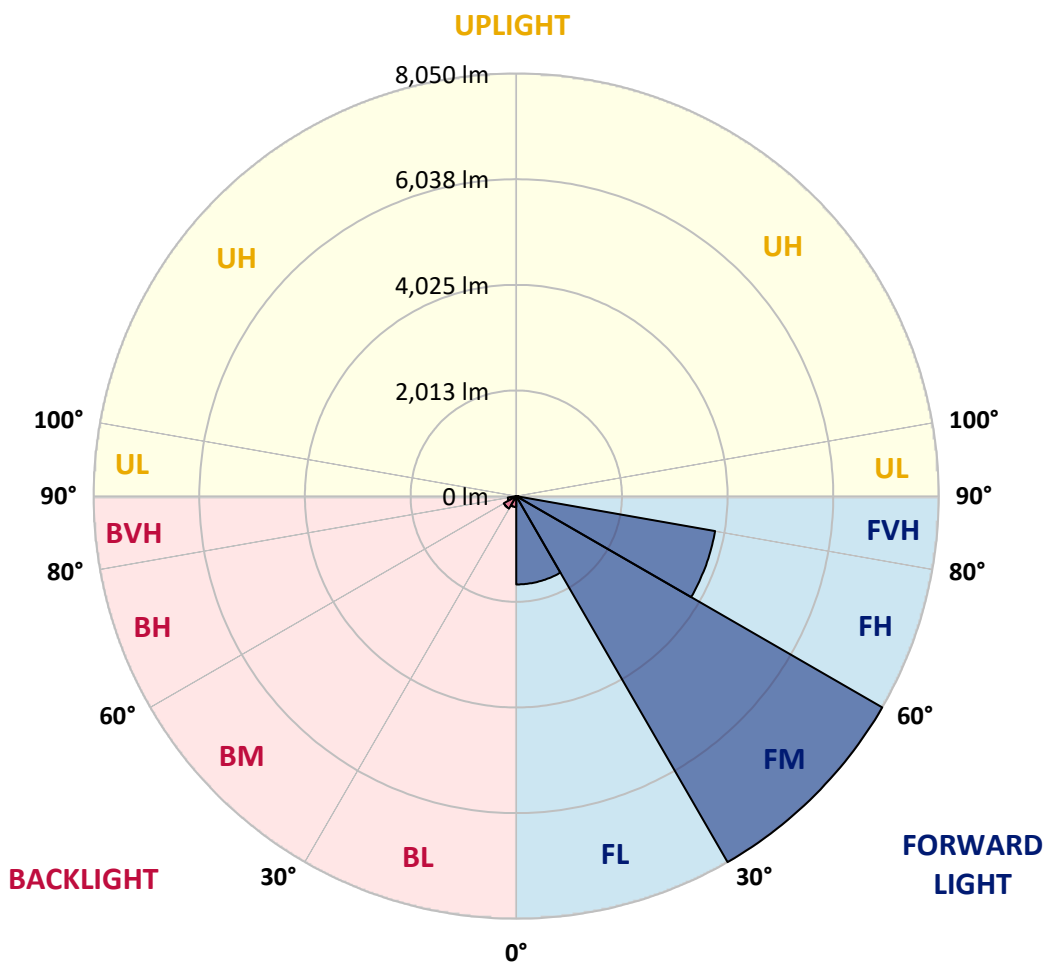
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 CATALOG NUMBER: IFLD-M-SA4B-830-U-T2R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1682.4	11.8			
FM (30°-60°)	8050.4	56.4			
FH (60°-80°)	3846.4	27.0			G2/5000
FVH (80°-90°)	42.0	0.3			G1/100
BL (0°-30°)	206.7	1.4	B1/500		
BM (30°-60°)	273.4	1.9	B1/1000		
BH (60°-80°)	163.4	1.1	B1/500		G1/500
BVH (80°-90°)	3.5	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-G2

Type II Medium





REPORT NUMBER: P482233

CATALOG NUMBER: IFLD-M-SA4B-830-U-T2R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	1366.2	1366.2	1366.2	1366.2	1366.2	1366.2	1366.2	1366.2	1366.2	1366.2	1366.2
2.5°	2075.9	2036.5	1995.3	1983.5	1906.8	1820.3	1739.7	1661.1	1529.4	1531.3	1440.9
5°	2675.4	2626.3	2592.8	2585.0	2465.1	2315.7	2193.8	1971.7	1753.5	1704.3	1539.2
7.5°	3168.8	3153.1	3103.9	3062.7	2974.2	2791.4	2647.9	2329.4	1997.2	1942.2	1659.1
10°	3467.6	3491.2	3512.8	3459.8	3390.9	3259.2	3062.7	2718.7	2274.4	2205.6	1814.4
12.5°	3786.1	3746.8	3760.5	3803.8	3713.3	3683.8	3440.1	3119.7	2598.7	2467.0	2011.0
15°	3868.6	3884.4	3917.8	4043.6	4104.5	4020.0	3809.7	3444.0	2934.9	2752.1	2193.8
17.5°	3923.7	3915.8	3957.1	4145.8	4238.2	4318.8	4187.1	3805.7	3227.8	3064.6	2421.8
20°	3992.5	3949.2	4039.7	4159.6	4373.8	4542.9	4537.0	4169.4	3534.4	3361.5	2647.9
22.5°	4248.0	4214.6	4287.3	4299.1	4448.5	4684.4	4741.4	4466.2	3849.0	3636.7	2891.6
25°	4719.8	4780.7	4694.3	4619.6	4664.8	4820.1	4861.3	4729.6	4165.5	3970.9	3135.4
27.5°	5409.8	5401.9	5230.9	5134.6	5026.5	5006.8	5036.3	4975.4	4415.1	4275.5	3335.9
30°	6150.9	6086.0	5928.8	5696.8	5458.9	5311.5	5270.2	5207.3	4708.0	4505.5	3534.4
32.5°	6740.6	6776.0	6601.0	6298.3	5903.2	5704.7	5506.1	5437.3	5030.4	4851.5	3762.5
35°	7283.2	7236.0	7096.4	6840.9	6487.0	6166.6	5856.0	5708.6	5417.7	5240.7	4014.1
37.5°	7684.2	7743.2	7477.8	7234.0	6882.2	6616.8	6312.1	5989.7	5816.7	5580.8	4320.8
40°	8063.6	7971.2	7792.3	7568.2	7241.9	7039.4	6838.9	6335.7	6241.3	5936.6	4666.7
42.5°	7996.7	8002.6	7904.4	7723.5	7487.6	7371.6	7302.8	6756.3	6626.6	6432.0	5004.8
45°	7723.5	7747.1	7780.5	7692.0	7711.7	7595.7	7780.5	7239.9	7112.1	6905.7	5394.1
47.5°	7422.7	7462.1	7454.2	7615.4	7798.2	7837.5	8299.5	7776.6	7721.5	7607.5	5932.7
50°	6923.4	6939.2	7090.5	7383.4	7633.1	8043.9	8688.7	8362.4	8446.9	8222.8	6573.5
52.5°	6070.3	6127.3	6516.5	6935.2	7438.5	8148.1	8952.1	9233.2	9447.5	9217.5	7188.8
55°	4991.1	5069.7	5453.0	6237.4	6974.5	7990.8	9191.9	9693.2	10127.6	9779.7	7562.3
57.5°	4016.1	4023.9	4367.9	5177.8	6316.0	7682.2	9313.8	9917.3	10501.1	10222.0	8018.4
60°	3060.7	3029.2	3337.9	4039.7	5207.3	6923.4	9009.1	10031.3	10967.0	10805.8	8566.8
62.5°	1969.7	1920.6	2256.7	2940.8	4067.2	5659.4	8399.7	10033.3	11694.4	11633.4	9484.8
65°	975.0	941.6	1230.6	1802.6	2815.0	4328.6	7530.9	9995.9	12582.9	12622.2	10379.3
67.5°	515.0	526.8	619.2	914.1	1623.7	3058.7	6221.7	9557.6	13037.0	13257.1	10595.5
68°	473.7	477.7	550.4	760.8	1409.5	2836.6	5911.1	9429.8	13072.4	13343.6	10475.6
70°	385.3	391.2	416.7	477.7	762.7	1845.9	4560.6	8344.7	12539.6	12787.3	9482.9
72.5°	306.7	324.4	340.1	365.6	448.2	969.1	2836.6	6502.8	10359.6	10387.1	7381.5
75°	233.9	247.7	279.1	300.8	349.9	532.7	1350.5	3965.0	6797.6	6463.4	4348.3
77.5°	180.9	192.6	206.4	235.9	292.9	359.7	412.8	1682.7	2887.7	2376.6	1228.6
80°	108.1	116.0	161.2	184.8	255.5	243.8	163.2	467.9	585.8	462.0	224.1
82.5°	62.9	68.8	92.4	141.5	178.9	131.7	96.3	145.5	143.5	125.8	74.7
85°	2.0	3.9	51.1	84.5	62.9	35.4	59.0	60.9	51.1	47.2	33.4
87.5°	0.0	2.0	13.8	11.8	13.8	7.9	11.8	15.7	19.7	17.7	13.8
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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CATALOG NUMBER: IFLD-M-SA4B-830-U-T2R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1366.2	1366.2	1366.2	1366.2	1366.2	1366.2	1366.2	1366.2	1366.2	1366.2	1366.2
2.5°	1380.0	1336.7	1240.4	1167.7	1089.0	1041.9	994.7	965.2	949.5	939.6	947.5
5°	1415.4	1324.9	1169.6	1032.0	941.6	880.7	819.7	788.3	758.8	743.1	752.9
7.5°	1494.0	1358.3	1100.8	951.4	845.3	750.9	674.3	613.3	577.9	546.5	552.4
10°	1590.3	1378.0	1102.8	904.3	750.9	601.5	493.4	416.7	373.5	346.0	344.0
12.5°	1688.6	1454.7	1110.7	857.1	634.9	452.1	324.4	267.3	241.8	228.0	228.0
15°	1838.0	1523.5	1091.0	770.6	481.6	294.9	222.1	202.5	192.6	180.9	182.8
17.5°	1967.7	1633.6	1081.2	640.8	330.2	212.3	184.8	163.2	153.3	141.5	141.5
20°	2142.7	1702.4	1028.1	495.4	228.0	176.9	149.4	129.7	114.0	104.2	106.2
22.5°	2301.9	1755.4	933.7	338.1	175.0	139.6	110.1	90.4	76.7	64.9	66.8
25°	2474.9	1808.5	796.1	208.4	123.8	86.5	59.0	43.2	29.5	21.6	21.6
27.5°	2598.7	1824.2	617.3	123.8	74.7	39.3	13.8	2.0	0.0	0.0	0.0
30°	2724.6	1830.1	426.6	66.8	29.5	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	2868.1	1828.2	267.3	35.4	2.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	2978.1	1794.7	127.8	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	3145.2	1745.6	39.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	3335.9	1657.1	7.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	3506.9	1566.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	3701.5	1454.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	4043.6	1407.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	4489.8	1370.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	4765.0	1260.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	4908.5	1146.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	5120.8	1091.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	5435.3	1094.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	5926.8	1150.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	6198.1	1094.9	7.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	5968.1	876.7	37.3	9.8	2.0	0.0	0.0	0.0	0.0	0.0	0.0
68°	5769.5	806.0	37.3	9.8	2.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	4769.0	524.9	35.4	9.8	3.9	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	3473.5	290.9	29.5	7.9	3.9	0.0	0.0	0.0	0.0	0.0	0.0
75°	2020.8	145.5	21.6	7.9	3.9	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	526.8	72.7	17.7	9.8	5.9	2.0	0.0	0.0	0.0	0.0	0.0
80°	104.2	47.2	15.7	11.8	7.9	3.9	0.0	0.0	0.0	0.0	0.0
82.5°	49.1	33.4	15.7	11.8	9.8	5.9	2.0	0.0	0.0	0.0	0.0
85°	25.6	15.7	15.7	11.8	11.8	7.9	3.9	0.0	0.0	0.0	0.0
87.5°	11.8	5.9	5.9	5.9	5.9	3.9	2.0	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)