

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: P481848

Luminaire Tested: **IFLD-L-SA7B-830-U-T2-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481848
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7B-830-U-T2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens with House Side Shield
Light Source: (112) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

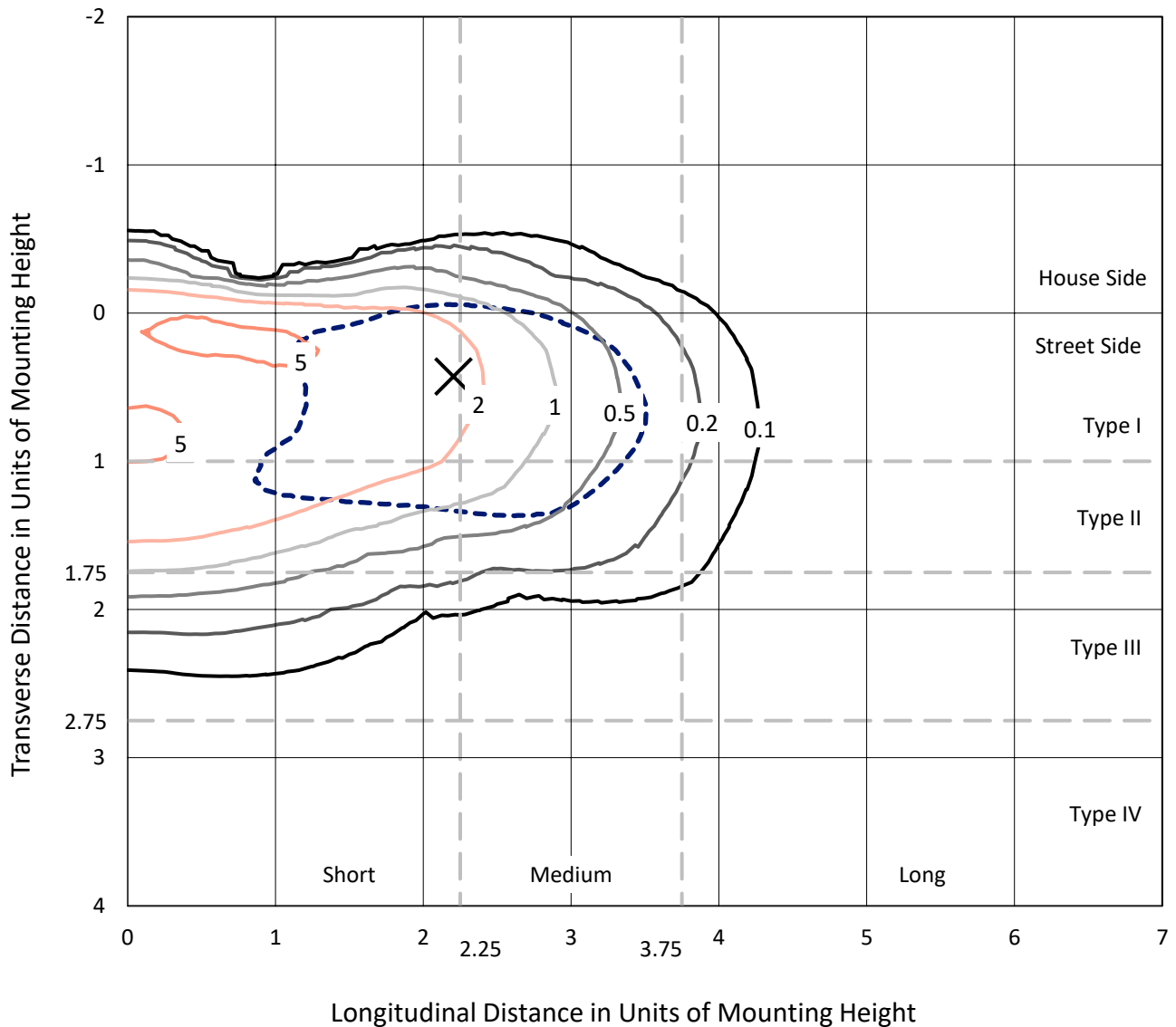
Lumens per Lamp: N/A
Luminaire Lumens: 20378 lumens
Efficiency: N/A
Efficacy: 72.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 281
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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 CATALOG NUMBER: IFLD-L-SA7B-830-U-T2-HSS

Iso-Footcandle Lines of Horizontal Illumination

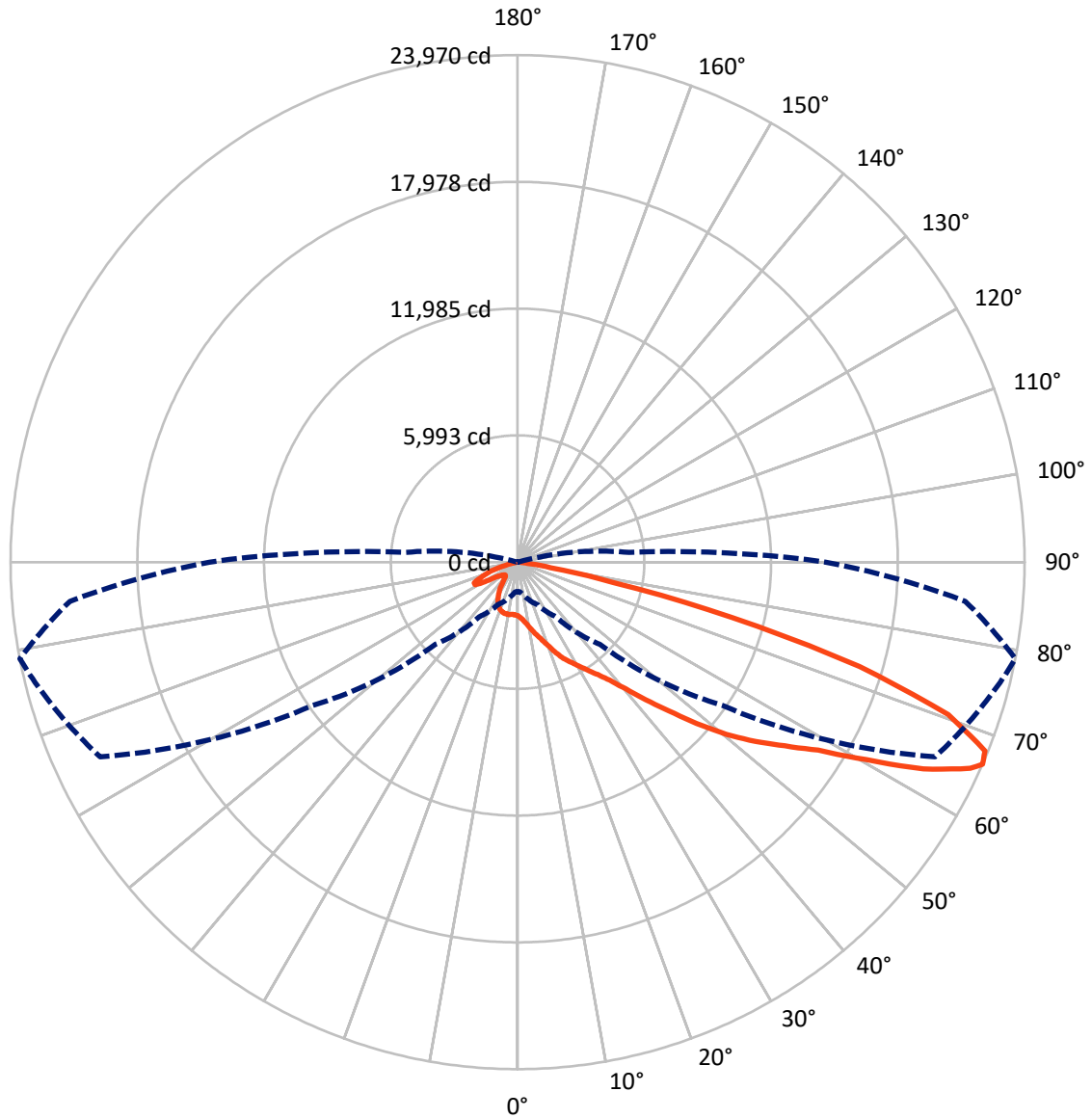
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 fc
 Type II - Short - N/A

REPORT NUMBER: P481848
CATALOG NUMBER: IFLD-L-SA7B-830-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	1530.1	0.0	1530.1
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	18847.9	0.0	18847.9
	% Fixture	92.5	0.0	92.5
Total	Lumens	20378.0	0.0	20378.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	239.8	1.2
10°-20°	659.9	3.2
20°-30°	1096.2	5.4
30°-40°	1882.9	9.2
40°-50°	3411.1	16.7
50°-60°	5391.9	26.5
60°-70°	5486.7	26.9
70°-80°	2092.3	10.3
80°-90°	117.3	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°	20378.0	100.0
0°-180°	20378.0	100.0



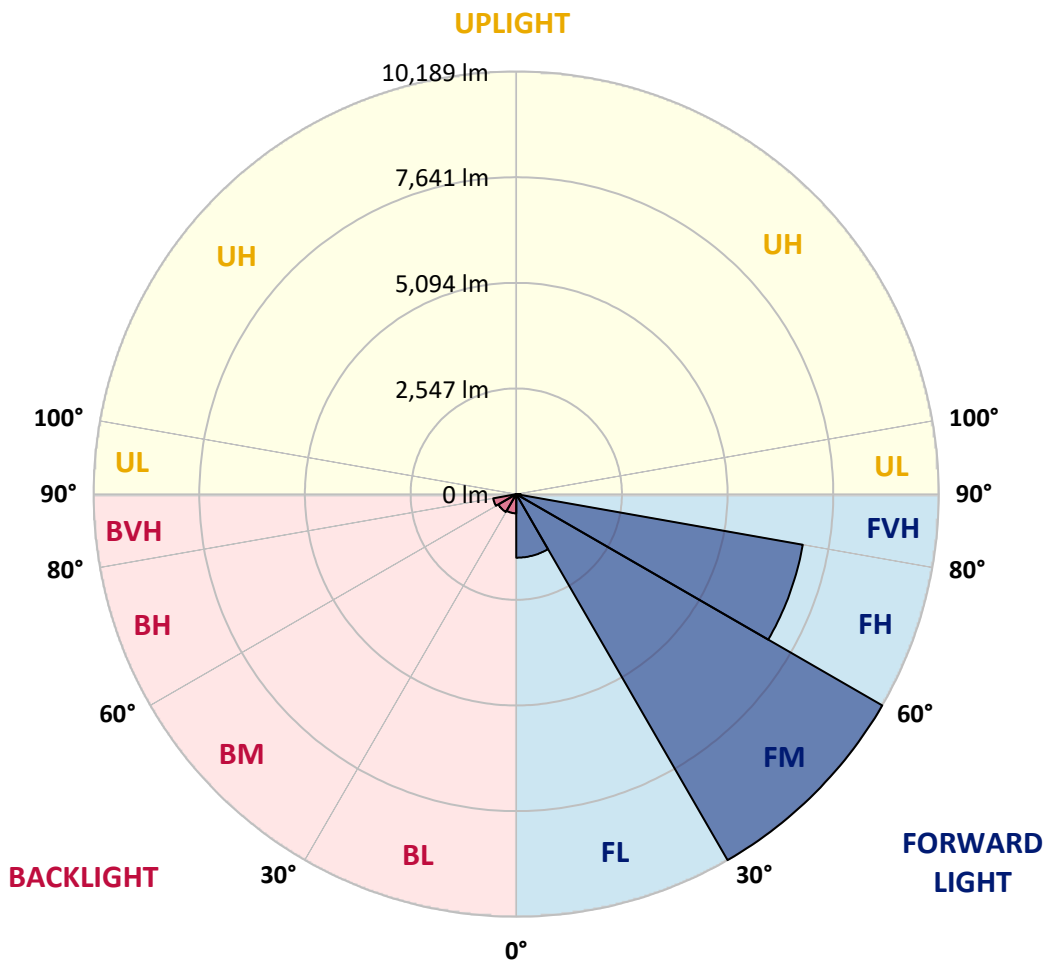
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1533.1	7.5			
FM (30°-60°)	10188.5	50.0			
FH (60°-80°)	7014.9	34.4			G3/7500
FVH (80°-90°)	111.3	0.5			G2/225
BL (0°-30°)	462.7	2.3	B1/500		
BM (30°-60°)	497.3	2.4	B1/1000		
BH (60°-80°)	564.1	2.8	B2/1000		G2/1000
BVH (80°-90°)	6.0	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-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	2535.3	2535.3	2535.3	2535.3	2535.3	2535.3	2535.3	2535.3	2535.3	2535.3	2535.3
2.5°	2871.4	2868.3	2855.7	2833.7	2805.4	2796.0	2755.2	2698.6	2667.2	2632.7	2617.0
5°	3069.3	3053.6	3091.3	3075.6	3081.9	3006.5	2956.2	2915.4	2796.0	2748.9	2673.5
7.5°	3113.3	3129.0	3125.9	3151.0	3176.2	3204.4	3169.9	3110.2	2990.8	2921.7	2840.0
10°	3113.3	3107.0	3132.2	3166.7	3239.0	3301.8	3396.1	3317.5	3226.4	3144.7	2997.1
12.5°	3056.8	3047.3	3072.5	3144.7	3273.5	3402.4	3506.0	3581.4	3452.6	3386.6	3195.0
15°	2884.0	2874.6	2978.2	3107.0	3276.7	3487.2	3703.9	3826.5	3738.5	3634.8	3421.2
17.5°	2670.4	2682.9	2792.9	3006.5	3276.7	3528.0	3804.5	4071.5	4058.9	3927.0	3703.9
20°	2598.1	2607.5	2717.5	2871.4	3179.3	3556.3	3961.6	4338.5	4413.9	4256.9	3964.7
22.5°	2736.3	2726.9	2736.3	2830.6	3113.3	3531.2	4065.2	4643.3	4778.4	4655.8	4307.1
25°	3207.6	3201.3	3122.7	2978.2	3075.6	3474.6	4118.6	4844.3	5155.4	5042.3	4583.6
27.5°	3898.7	3873.6	3751.1	3449.5	3251.6	3509.2	4206.6	5039.1	5485.2	5356.4	4831.8
30°	4640.1	4580.4	4420.2	4043.2	3707.1	3638.0	4256.9	5183.6	5852.8	5689.4	5048.5
32.5°	5152.2	5230.8	5180.5	4797.2	4282.0	3936.4	4338.5	5365.8	6192.1	6085.3	5419.3
35°	5943.9	6035.0	5824.5	5485.2	4966.9	4410.8	4511.3	5513.5	6713.6	6534.5	5764.8
37.5°	6942.9	7012.0	6861.2	6217.2	5670.6	4995.1	4866.3	5821.4	7162.8	7078.0	6207.8
40°	7445.6	7778.6	7565.0	6983.8	6396.3	5812.0	5453.8	6182.7	7945.1	7876.0	6820.4
42.5°	8139.9	8306.4	8196.4	7766.0	7153.4	6685.3	6179.5	6886.4	8893.9	8893.9	7649.8
45°	8875.0	8881.3	8875.0	8523.2	7979.7	7737.8	7159.7	7769.2	9914.9	10028.0	8642.5
47.5°	9478.2	9666.7	9651.0	9440.5	9019.5	8928.4	8139.9	8774.5	11196.7	11394.6	9610.1
50°	9789.2	9999.7	10062.5	10172.5	10153.6	10345.3	9211.2	9940.0	12302.5	12789.4	10854.2
52.5°	9704.4	9720.1	10106.5	10540.1	11231.2	11768.4	10502.4	11262.6	13596.8	14077.5	11815.5
55°	9010.1	8950.4	9745.2	10241.6	11671.0	12638.6	12289.9	12912.0	14605.3	15337.3	12808.3
57.5°	7486.4	7502.1	8237.3	9245.7	11344.3	12984.2	14200.0	15067.1	16019.0	16757.3	14203.2
60°	5167.9	5149.1	5972.2	7137.7	9424.8	12340.2	15299.6	17860.0	17910.2	18956.4	16707.0
62.5°	2906.0	2912.3	3537.4	4533.3	6594.2	10084.5	15246.2	20825.6	20612.0	21529.4	19553.3
65°	1646.2	1687.0	2117.4	2686.1	3949.0	6770.1	13113.0	22006.9	22694.9	23511.7	21281.2
66°	1391.7	1420.0	1787.6	2218.0	3151.0	5491.5	11803.0	21777.6	23348.4	23970.4	21246.6
67.5°	1077.6	1115.3	1423.1	1759.3	2312.2	3801.3	9500.2	20637.2	23467.7	23832.2	20646.6
70°	738.3	763.4	999.0	1335.2	1580.2	1944.6	5680.0	17062.0	21293.7	21601.6	17944.8
72.5°	518.4	530.9	700.6	1011.6	1215.8	1112.1	2818.0	12139.1	16295.5	16895.5	13958.1
75°	373.9	386.4	480.7	725.7	948.8	728.9	1291.2	7753.5	9993.4	10464.7	8406.9
77.5°	270.2	285.9	326.7	468.1	688.0	512.1	634.6	4049.5	4712.4	4630.7	3616.0
80°	163.4	179.1	241.9	301.6	502.7	361.3	348.7	1690.2	1671.3	1586.5	1137.3
82.5°	75.4	88.0	128.8	204.2	351.9	251.3	166.5	603.2	527.8	483.8	320.4
85°	22.0	28.3	75.4	153.9	179.1	122.5	100.5	207.3	216.8	185.4	106.8
87.5°	0.0	3.1	34.6	37.7	53.4	40.8	37.7	53.4	100.5	81.7	34.6
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°	2535.3	2535.3	2535.3	2535.3	2535.3	2535.3	2535.3	2535.3	2535.3	2535.3	2535.3
2.5°	2560.4	2538.4	2485.0	2403.3	2331.1	2293.4	2240.0	2192.8	2167.7	2164.6	2161.4
5°	2623.2	2563.5	2434.7	2287.1	2177.1	2057.7	1976.1	1916.4	1859.8	1806.4	1837.8
7.5°	2708.1	2613.8	2403.3	2211.7	1972.9	1819.0	1674.5	1589.6	1539.4	1492.3	1486.0
10°	2840.0	2720.6	2381.3	2035.8	1762.4	1536.2	1388.6	1266.1	1196.9	1115.3	1146.7
12.5°	3019.1	2805.4	2299.6	1875.5	1523.7	1284.9	1074.4	876.5	766.5	681.7	684.9
15°	3198.1	2918.5	2224.3	1680.8	1306.9	992.7	684.9	549.8	518.4	499.5	505.8
17.5°	3374.1	3009.7	2108.0	1482.8	1058.7	631.5	499.5	471.2	455.5	436.7	436.7
20°	3587.7	3069.3	1963.5	1300.6	728.9	468.1	427.3	408.4	383.3	358.1	361.3
22.5°	3795.0	3119.6	1797.0	1068.1	490.1	405.3	358.1	333.0	311.0	285.9	285.9
25°	4002.4	3135.3	1580.2	766.5	395.8	323.6	279.6	245.0	223.1	201.1	204.2
27.5°	4143.8	3037.9	1376.0	490.1	317.3	245.0	194.8	166.5	147.7	125.7	125.7
30°	4225.4	2858.9	1156.1	345.6	238.8	166.5	116.2	88.0	69.1	53.4	50.3
32.5°	4307.1	2714.3	907.9	263.9	157.1	88.0	44.0	15.7	0.0	0.0	0.0
35°	4470.5	2551.0	609.5	147.7	53.4	3.1	0.0	0.0	0.0	0.0	0.0
37.5°	4574.2	2324.8	279.6	22.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	4834.9	2211.7	69.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	5259.0	2133.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	5724.0	2101.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	6342.9	2186.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	6996.3	2415.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	7712.6	2632.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	8337.8	2893.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	9487.6	3509.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	11551.7	4718.7	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	13876.4	5617.2	34.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	14727.8	5595.2	59.7	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	14577.0	5287.3	59.7	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	13794.8	4696.7	53.4	6.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	11847.0	3879.9	53.4	9.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	9032.1	3022.2	50.3	12.6	3.1	0.0	0.0	0.0	0.0	0.0	0.0
75°	5450.7	1608.5	40.8	15.7	6.3	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	2170.8	565.5	31.4	12.6	6.3	0.0	0.0	0.0	0.0	0.0	0.0
80°	587.5	169.6	18.8	12.6	9.4	3.1	0.0	0.0	0.0	0.0	0.0
82.5°	153.9	62.8	15.7	12.6	6.3	3.1	0.0	0.0	0.0	0.0	0.0
85°	59.7	25.1	12.6	9.4	9.4	6.3	3.1	0.0	0.0	0.0	0.0
87.5°	18.8	9.4	9.4	6.3	6.3	3.1	3.1	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)