

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: P482589

Luminaire Tested: **IFLD-L-SA7B-827-U-T3-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P482589
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7B-827-U-T3-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens with House Side Shield
Light Source: (112) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

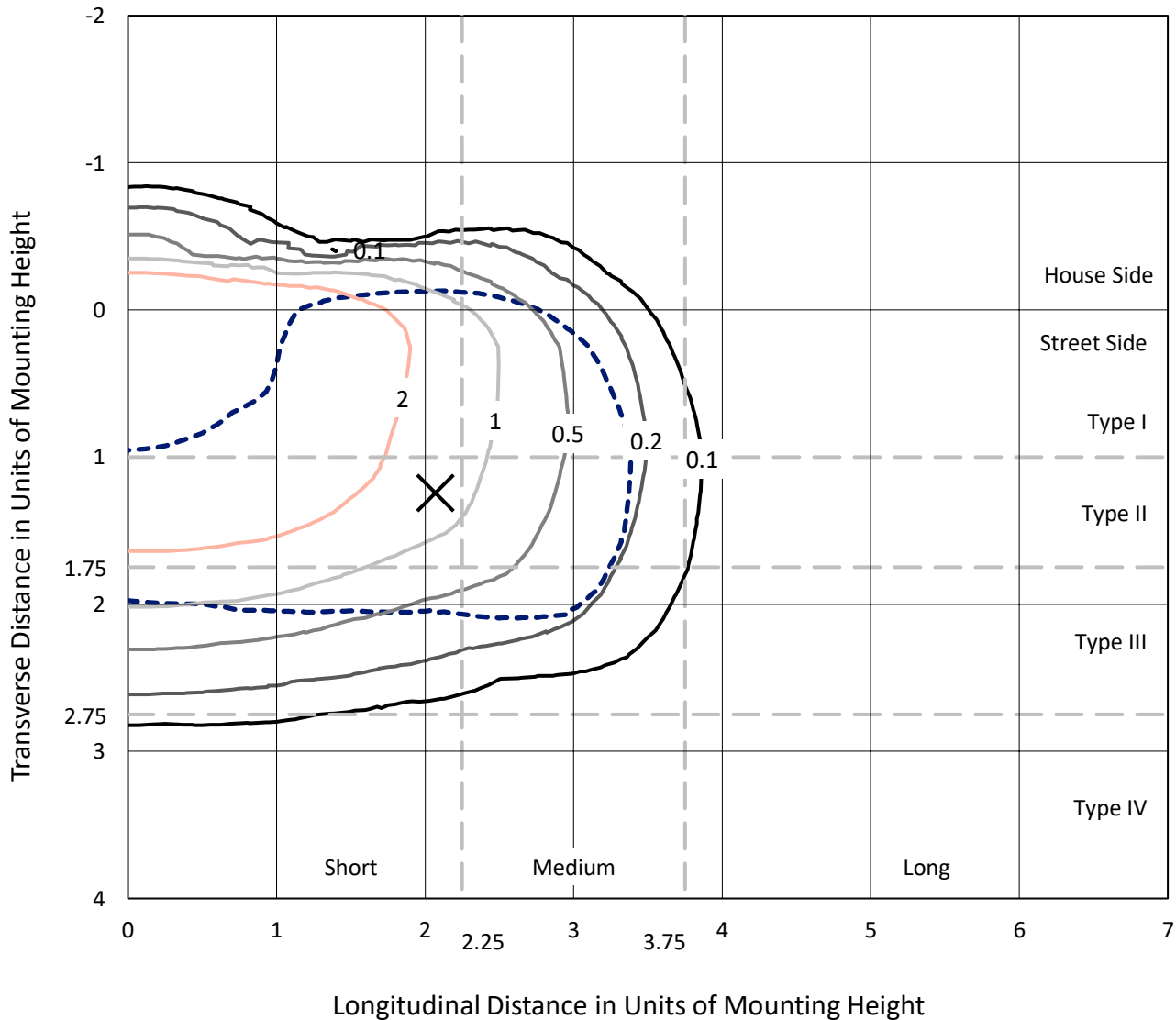
Lumens per Lamp: N/A
Luminaire Lumens: 19425.1 lumens
Efficiency: N/A
Efficacy: 69.1 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

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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Iso-Footcandle Lines of Horizontal Illumination

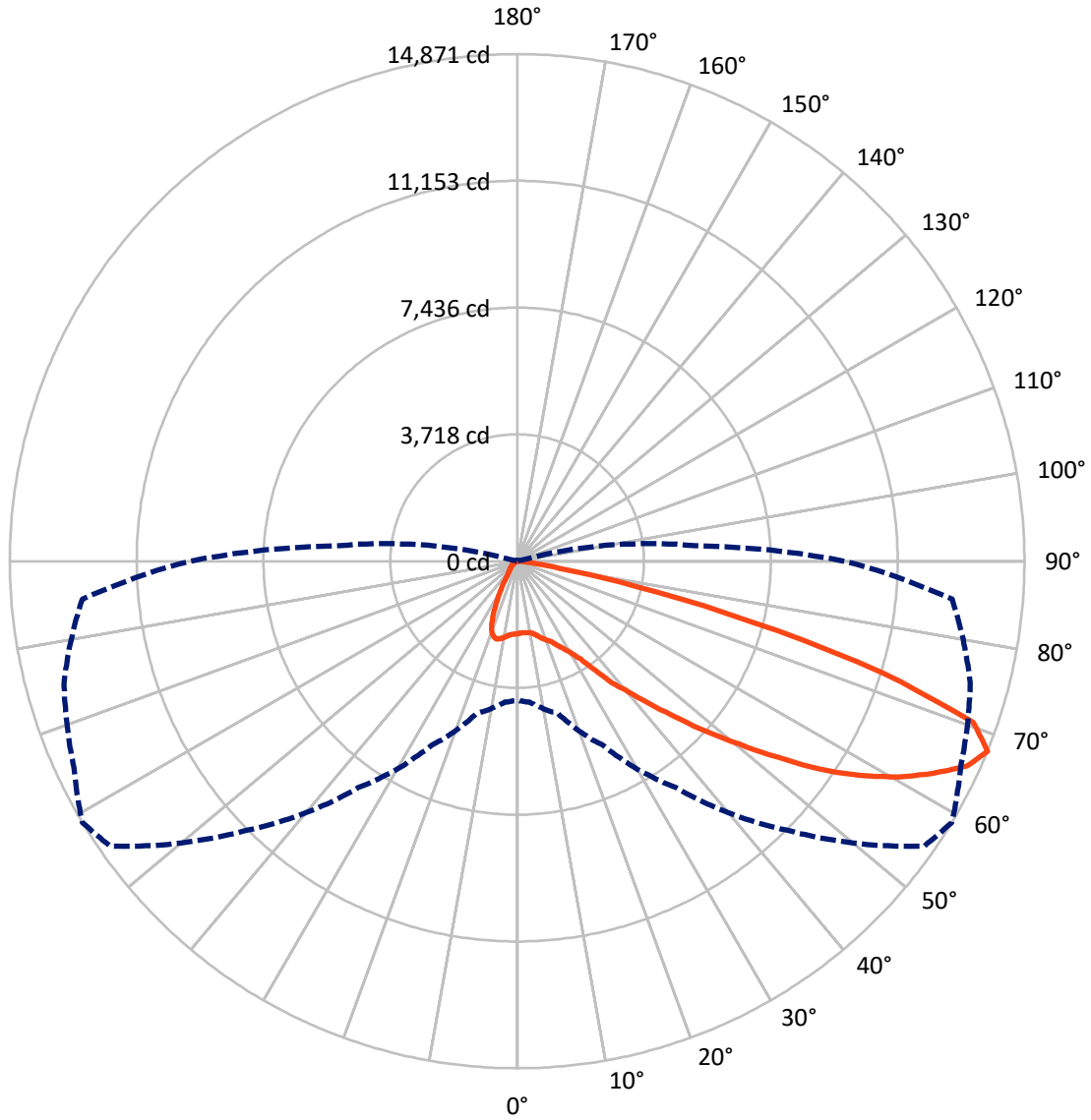
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 fc
 Type III - Short - N/A

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CATALOG NUMBER: IFLD-L-SA7B-827-U-T3-HSS

Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2281.8	0.0	2281.8
	% Fixture	11.7	0.0	11.7
Street Side	Lumens	17143.2	0.0	17143.2
	% Fixture	88.3	0.0	88.3
Total	Lumens	19425.1	0.0	19425.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	202.4	1.0
10°-20°	584.6	3.0
20°-30°	1021.7	5.3
30°-40°	1798.9	9.3
40°-50°	3179.9	16.4
50°-60°	5034.9	25.9
60°-70°	5585.0	28.8
70°-80°	1937.9	10.0
80°-90°	79.8	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°	19425.1	100.0
0°-180°	19425.1	100.0

Coefficient of Utilization

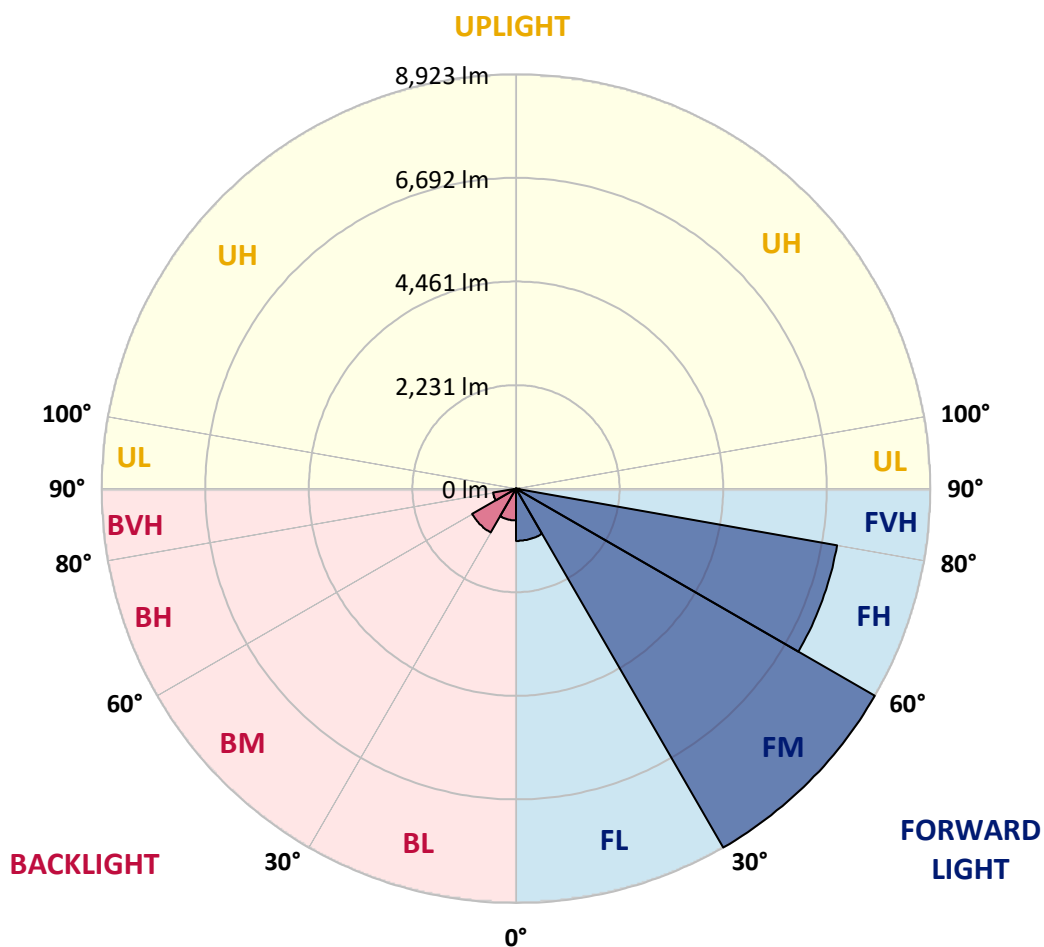


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1124.9	5.8			
FM (30°-60°)	8922.6	45.9			
FH (60°-80°)	7021.1	36.1			G3/7500
FVH (80°-90°)	74.6	0.4			G1/100
BL (0°-30°)	683.9	3.5	B2/1000		
BM (30°-60°)	1091.0	5.6	B2/2500		
BH (60°-80°)	501.8	2.6	B2/1000		G2/1000
BVH (80°-90°)	5.2	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	2130.6	2130.6	2130.6	2130.6	2130.6	2130.6	2130.6	2130.6	2130.6	2130.6	2130.6
2.5°	2068.9	2039.3	2066.2	2068.9	2071.5	2095.7	2122.5	2103.7	2101.1	2122.5	2141.3
5°	1985.7	1972.3	2004.5	2020.6	2047.4	2068.9	2111.8	2114.5	2117.2	2141.3	2173.5
7.5°	1950.8	1918.6	1956.2	1974.9	1993.7	2044.7	2095.7	2122.5	2160.1	2189.6	2221.8
10°	1881.0	1905.2	1915.9	1948.1	2001.8	2060.8	2122.5	2135.9	2219.1	2243.3	2321.1
12.5°	1905.2	1921.3	1942.7	1950.8	2009.8	2098.4	2181.6	2186.9	2272.8	2377.4	2417.7
15°	1966.9	1956.2	1964.2	1974.9	2044.7	2117.2	2251.3	2275.5	2356.0	2474.0	2573.3
17.5°	2098.4	2079.6	2066.2	2063.5	2079.6	2146.7	2305.0	2377.4	2452.6	2613.6	2664.6
20°	2428.4	2412.3	2358.7	2219.1	2170.8	2197.7	2369.4	2471.4	2576.0	2755.8	2839.0
22.5°	2930.2	2946.3	2820.2	2624.3	2423.1	2318.4	2471.4	2559.9	2726.3	2954.4	3029.5
25°	3523.2	3491.0	3338.1	3110.0	2793.4	2546.5	2635.0	2734.3	2938.3	3126.1	3155.6
27.5°	3987.5	3949.9	3831.8	3555.4	3281.7	2881.9	2849.7	2911.4	3152.9	3322.0	3289.8
30°	4446.3	4459.7	4379.2	4051.9	3713.8	3292.5	3088.5	3115.4	3300.5	3517.9	3445.4
32.5°	5031.3	4999.1	4953.5	4666.3	4266.5	3815.7	3466.9	3424.0	3504.5	3791.6	3705.7
35°	5576.0	5557.2	5495.5	5205.7	4856.9	4365.8	4025.0	3928.4	3909.6	4229.0	4078.7
37.5°	6050.9	6018.7	5924.8	5739.7	5401.6	4988.3	4615.4	4529.5	4526.8	4746.8	4457.0
40°	6450.8	6474.9	6464.2	6260.2	6075.1	5745.0	5173.5	5036.6	5025.9	5144.0	4974.9
42.5°	6968.7	7025.0	6995.5	6955.2	6732.5	6603.7	5957.0	5747.7	5653.8	5895.3	5742.4
45°	7752.2	7773.7	7792.4	7693.2	7470.4	7497.3	6767.4	6517.9	6493.7	6853.3	6509.8
47.5°	8484.7	8428.4	8559.9	8565.2	8554.5	8431.1	7642.2	7457.0	7489.2	7762.9	7408.7
50°	8667.2	8812.1	9174.4	9241.4	9415.9	9528.6	8613.5	8428.4	8482.1	8793.3	8388.1
52.5°	8809.4	9029.5	9391.7	9882.8	10352.4	10620.7	9700.3	9550.0	9547.3	9737.9	9179.7
55°	9059.0	9193.1	9507.1	10183.3	11076.9	11516.9	11009.8	10768.3	10550.9	10685.1	10000.8
57.5°	9034.8	9085.8	9574.2	10408.7	11651.1	12450.7	12085.8	11855.0	11576.0	11498.1	10945.4
60°	8610.9	8731.6	9279.0	10255.8	12005.3	13177.9	13089.4	12853.2	12372.9	12190.4	11669.9
62.5°	7771.0	7932.0	8361.3	9719.1	11490.1	13215.5	13781.7	13693.1	13156.5	12829.1	12614.4
65°	6297.8	6372.9	6866.7	8355.9	10325.5	12638.6	14600.1	14490.1	13996.3	13508.0	13100.1
67.5°	4078.7	4151.1	4626.1	5965.1	8109.1	11149.3	14567.9	14871.1	14337.1	13749.5	12796.9
70°	1926.6	1907.9	2350.6	3313.9	5195.0	8514.3	13583.1	14181.5	13728.0	12464.1	10628.7
72.5°	587.7	638.6	976.7	1467.8	2667.2	5310.3	10647.5	11208.3	11066.1	9957.9	7094.8
75°	260.3	281.8	383.7	601.1	1081.4	2178.9	6576.9	7076.0	7014.3	5873.8	3238.8
77.5°	166.4	182.5	241.5	343.5	491.1	692.3	3029.5	3515.2	3407.9	2063.5	847.9
80°	118.1	126.1	171.7	236.1	308.6	284.4	1043.8	1239.7	1188.7	560.8	228.1
82.5°	64.4	69.8	126.1	174.4	206.6	144.9	292.5	364.9	381.0	249.6	110.0
85°	24.2	29.5	77.8	123.4	107.3	67.1	85.9	104.7	136.9	136.9	51.0
87.5°	0.0	2.7	32.2	53.7	26.8	18.8	24.2	29.5	37.6	64.4	18.8
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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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2130.6	2130.6	2130.6	2130.6	2130.6	2130.6	2130.6	2130.6	2130.6	2130.6	2130.6
2.5°	2154.7	2135.9	2144.0	2157.4	2127.9	2144.0	2111.8	2135.9	2144.0	2111.8	2127.9
5°	2181.6	2200.3	2189.6	2168.1	2149.4	2154.7	2146.7	2127.9	2144.0	2149.4	2138.6
7.5°	2259.4	2237.9	2243.3	2219.1	2181.6	2178.9	2127.9	2114.5	2119.8	2125.2	2106.4
10°	2331.8	2345.2	2318.4	2299.6	2237.9	2197.7	2127.9	2052.8	2044.7	2012.5	2039.3
12.5°	2460.6	2428.4	2417.7	2356.0	2294.3	2160.1	2009.8	1894.4	1797.8	1763.0	1728.1
15°	2568.0	2562.6	2543.8	2449.9	2307.7	2063.5	1779.1	1510.7	1325.6	1210.2	1194.1
17.5°	2715.5	2691.4	2656.5	2508.9	2208.4	1811.3	1325.6	987.5	802.3	729.9	703.0
20°	2828.2	2809.5	2761.2	2495.5	2028.6	1349.7	821.1	627.9	582.3	568.9	571.6
22.5°	2991.9	2932.9	2841.7	2428.4	1701.2	898.9	590.3	560.8	552.8	542.0	544.7
25°	3134.1	3080.5	2890.0	2313.0	1212.9	595.7	547.4	531.3	517.9	504.5	501.8
27.5°	3260.3	3193.2	2940.9	2076.9	759.4	512.5	507.2	488.4	461.5	440.1	432.0
30°	3383.7	3305.9	2954.4	1634.2	512.5	464.2	450.8	421.3	386.4	356.9	351.5
32.5°	3590.3	3496.4	2935.6	1167.3	442.8	413.2	383.7	348.8	297.9	273.7	268.3
35°	3912.3	3770.1	2911.4	686.9	397.1	364.9	319.3	273.7	236.1	212.0	206.6
37.5°	4282.6	4035.8	2841.7	458.9	364.9	322.0	263.0	217.4	185.2	166.4	161.0
40°	4832.7	4424.8	2573.3	375.7	324.7	273.7	212.0	171.7	147.6	134.2	128.8
42.5°	5439.1	4870.3	2160.1	338.1	287.1	233.5	169.1	139.5	120.8	107.3	107.3
45°	6166.3	5334.5	1666.4	308.6	254.9	193.2	139.5	112.7	96.6	85.9	80.5
47.5°	6976.7	5755.8	1124.3	279.1	214.7	158.3	115.4	85.9	69.8	61.7	61.7
50°	7701.2	6128.8	716.5	244.2	187.8	131.5	93.9	69.8	56.4	45.6	42.9
52.5°	8358.6	6413.2	493.7	214.7	161.0	107.3	77.8	56.4	42.9	34.9	34.9
55°	9032.1	6558.1	364.9	185.2	139.5	91.2	64.4	51.0	37.6	29.5	26.8
57.5°	9584.9	6619.8	279.1	161.0	118.1	72.5	56.4	42.9	32.2	24.2	21.5
60°	10057.2	6590.3	217.4	134.2	93.9	61.7	48.3	34.9	26.8	18.8	16.1
62.5°	10333.6	6413.2	171.7	115.4	75.1	53.7	40.3	29.5	18.8	13.4	10.7
65°	10338.9	6037.5	134.2	85.9	56.4	45.6	34.9	24.2	13.4	5.4	2.7
67.5°	9598.3	5224.5	107.3	67.1	45.6	34.9	26.8	18.8	5.4	0.0	0.0
70°	7508.0	3952.6	88.6	53.7	37.6	29.5	18.8	10.7	2.7	0.0	0.0
72.5°	4784.4	2366.7	72.5	42.9	32.2	21.5	13.4	8.1	0.0	0.0	0.0
75°	2001.8	729.9	56.4	37.6	24.2	16.1	10.7	2.7	0.0	0.0	0.0
77.5°	515.2	230.8	45.6	32.2	24.2	13.4	8.1	2.7	0.0	0.0	0.0
80°	153.0	85.9	37.6	26.8	18.8	10.7	5.4	2.7	0.0	0.0	0.0
82.5°	69.8	51.0	32.2	24.2	16.1	10.7	5.4	0.0	0.0	0.0	0.0
85°	26.8	16.1	16.1	13.4	13.4	8.1	2.7	0.0	0.0	0.0	0.0
87.5°	10.7	5.4	5.4	5.4	2.7	2.7	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)