

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: P482352

Luminaire Tested: **IFLD-M-SA4D-727-U-T3-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P482352
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4D-727-U-T3-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens with House Side Shield
Light Source: (64) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

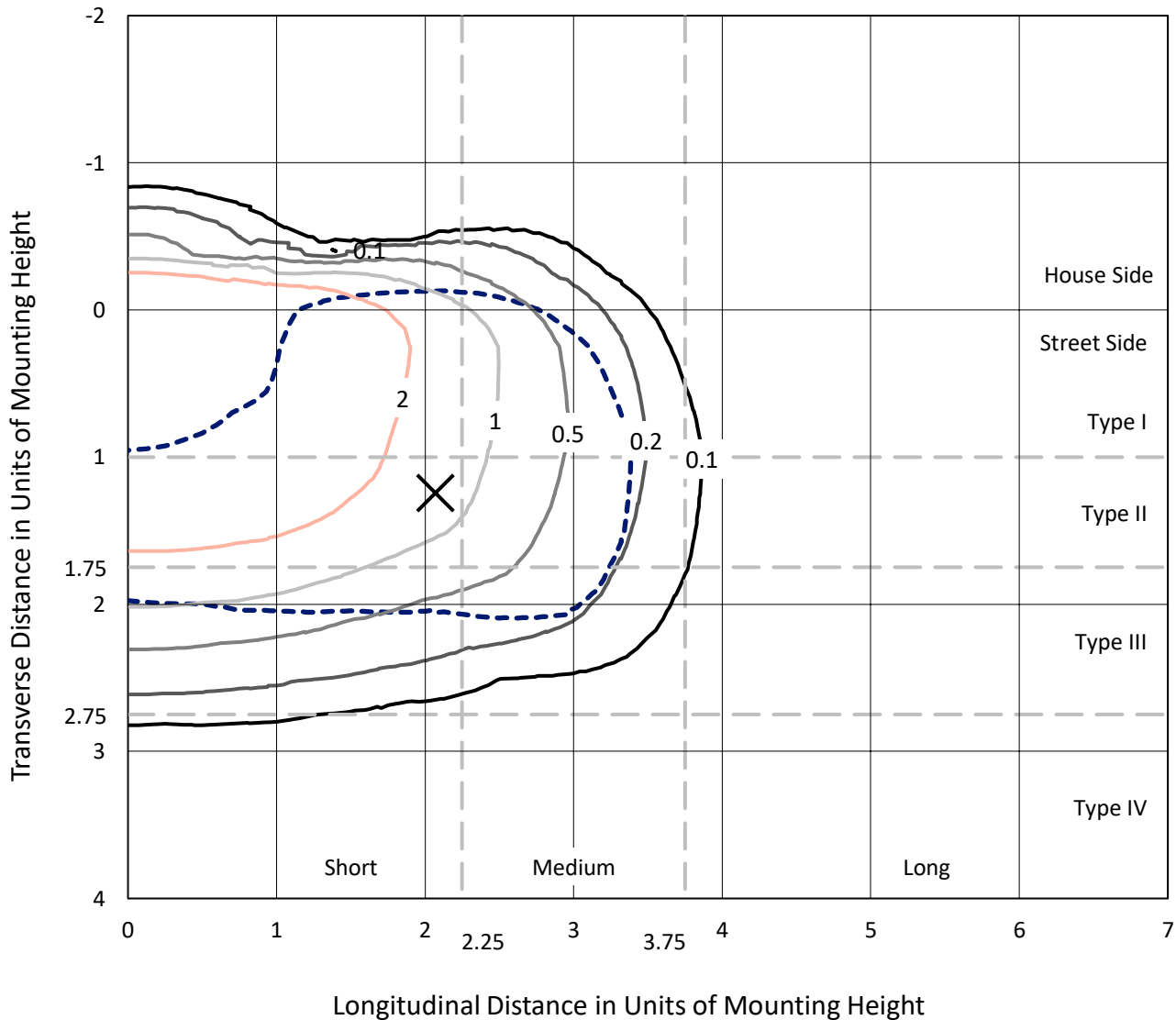
Lumens per Lamp: N/A
Luminaire Lumens: 19413.4 lumens
Efficiency: N/A
Efficacy: 77.7 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 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

REPORT NUMBER: P482352
 CATALOG NUMBER: IFLD-M-SA4D-727-U-T3-HSS

Iso-Footcandle Lines of Horizontal Illumination

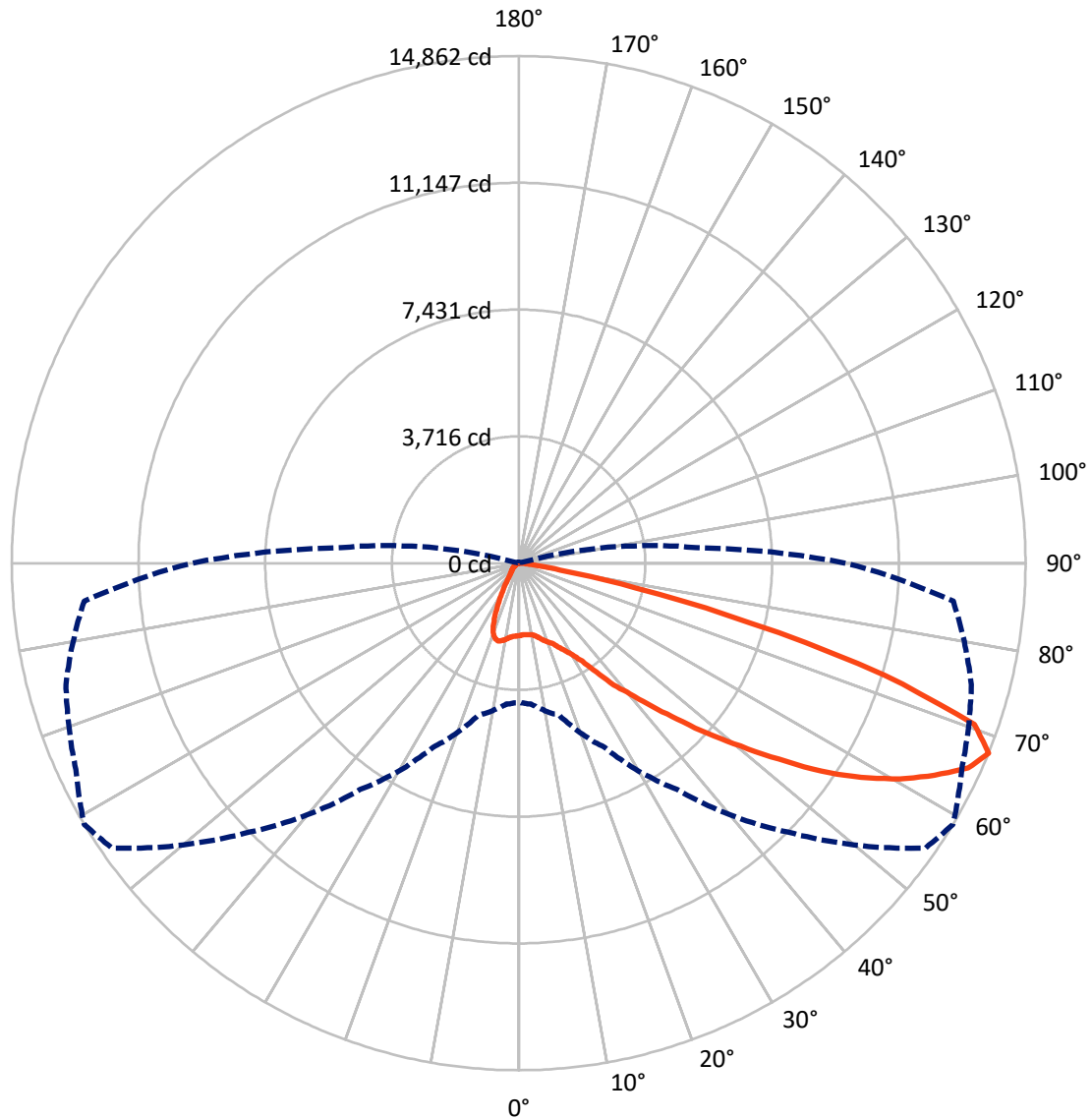
✕ Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P482352
CATALOG NUMBER: IFLD-M-SA4D-727-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	2280.4	0.0	2280.4
	% Fixture	11.7	0.0	11.7
Street Side	Lumens	17133.0	0.0	17133.0
	% Fixture	88.3	0.0	88.3
Total	Lumens	19413.4	0.0	19413.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	202.3	1.0
10°-20°	584.2	3.0
20°-30°	1021.1	5.3
30°-40°	1797.8	9.3
40°-50°	3178.0	16.4
50°-60°	5031.8	25.9
60°-70°	5581.7	28.8
70°-80°	1936.7	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°	19413.4	100.0
0°-180°	19413.4	100.0

Coefficient of Utilization

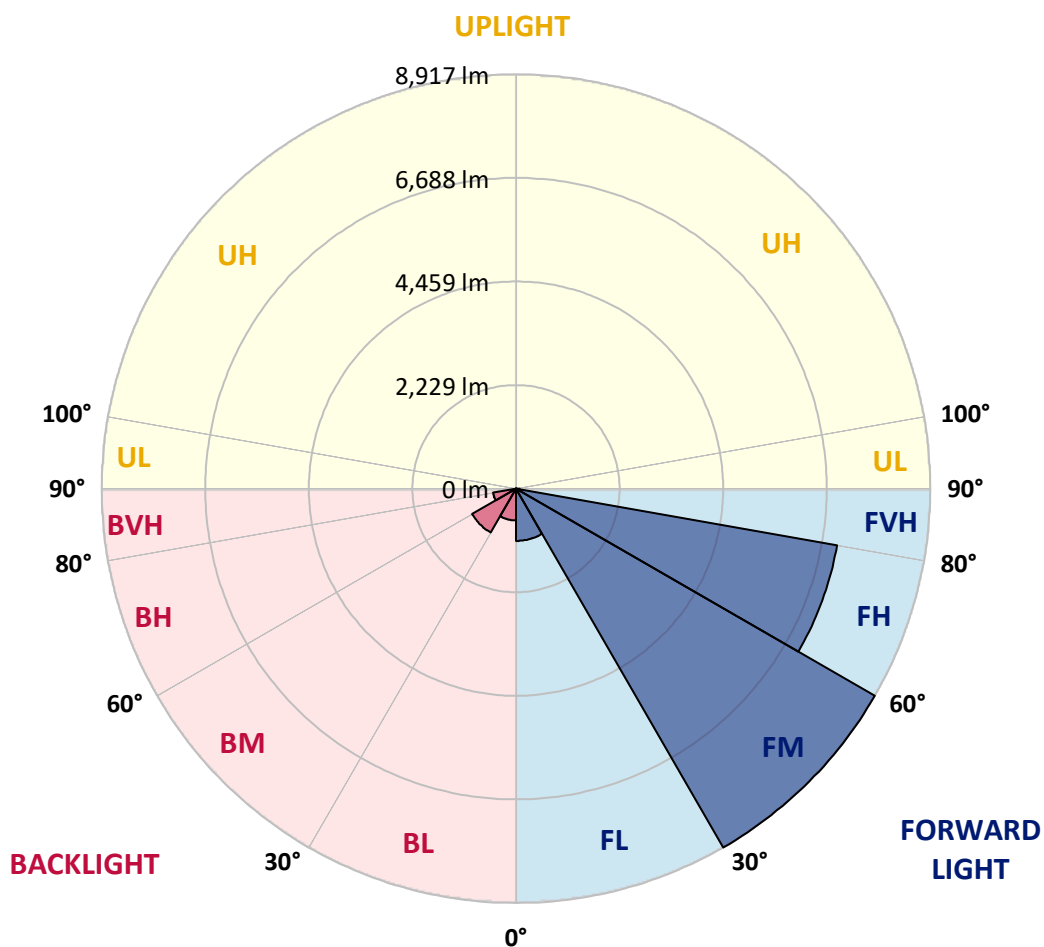


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1124.2	5.8			
FM (30°-60°)	8917.3	45.9			
FH (60°-80°)	7016.9	36.1			G3/7500
FVH (80°-90°)	74.6	0.4			G1/100
BL (0°-30°)	683.5	3.5	B2/1000		
BM (30°-60°)	1090.3	5.6	B2/2500		
BH (60°-80°)	501.5	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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CATALOG NUMBER: IFLD-M-SA4D-727-U-T3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	2129.3	2129.3	2129.3	2129.3	2129.3	2129.3	2129.3	2129.3	2129.3	2129.3	2129.3
2.5°	2067.6	2038.1	2064.9	2067.6	2070.3	2094.4	2121.3	2102.5	2099.8	2121.3	2140.0
5°	1984.5	1971.1	2003.3	2019.3	2046.2	2067.6	2110.5	2113.2	2115.9	2140.0	2172.2
7.5°	1949.6	1917.4	1955.0	1973.8	1992.5	2043.5	2094.4	2121.3	2158.8	2188.3	2220.5
10°	1879.9	1904.0	1914.8	1946.9	2000.6	2059.6	2121.3	2134.7	2217.8	2241.9	2319.7
12.5°	1904.0	1920.1	1941.6	1949.6	2008.6	2097.1	2180.3	2185.6	2271.4	2376.0	2416.2
15°	1965.7	1955.0	1963.0	1973.8	2043.5	2115.9	2250.0	2274.1	2354.6	2472.6	2571.8
17.5°	2097.1	2078.3	2064.9	2062.3	2078.3	2145.4	2303.6	2376.0	2451.1	2612.0	2663.0
20°	2427.0	2410.9	2357.2	2217.8	2169.5	2196.3	2368.0	2469.9	2574.5	2754.1	2837.3
22.5°	2928.5	2944.5	2818.5	2622.7	2421.6	2317.0	2469.9	2558.4	2724.6	2952.6	3027.7
25°	3521.1	3488.9	3336.1	3108.1	2791.7	2545.0	2633.5	2732.7	2936.5	3124.2	3153.7
27.5°	3985.1	3947.5	3829.5	3553.3	3279.8	2880.2	2848.0	2909.7	3151.0	3320.0	3287.8
30°	4443.6	4457.1	4376.6	4049.4	3711.5	3290.5	3086.7	3113.5	3298.5	3515.8	3443.4
32.5°	5028.3	4996.1	4950.5	4663.5	4264.0	3813.4	3464.8	3421.9	3502.4	3789.3	3703.5
35°	5572.7	5553.9	5492.2	5202.6	4853.9	4363.2	4022.6	3926.1	3907.3	4226.4	4076.2
37.5°	6047.3	6015.1	5921.3	5736.2	5398.3	4985.4	4612.6	4526.8	4524.1	4744.0	4454.4
40°	6446.9	6471.0	6460.3	6256.5	6071.5	5741.6	5170.4	5033.6	5022.9	5140.9	4971.9
42.5°	6964.5	7020.8	6991.3	6951.1	6728.5	6599.8	5953.5	5744.3	5650.4	5891.8	5738.9
45°	7747.5	7769.0	7787.8	7688.5	7466.0	7492.8	6763.3	6513.9	6489.8	6849.2	6505.9
47.5°	8479.7	8423.3	8554.7	8560.1	8549.4	8426.0	7637.6	7452.6	7484.7	7758.3	7404.3
50°	8662.0	8806.8	9168.9	9235.9	9410.2	9522.9	8608.4	8423.3	8477.0	8788.1	8383.1
52.5°	8804.1	9024.1	9386.1	9876.8	10346.1	10614.3	9694.5	9544.3	9541.6	9732.0	9174.2
55°	9053.6	9187.6	9501.4	10177.2	11070.2	11510.0	11003.2	10761.8	10544.6	10678.7	9994.8
57.5°	9029.4	9080.4	9568.4	10402.5	11644.1	12443.3	12078.6	11847.9	11569.0	11491.3	10938.8
60°	8605.7	8726.4	9273.5	10249.6	11998.1	13170.0	13081.5	12845.5	12365.5	12183.1	11662.9
62.5°	7766.3	7927.2	8356.3	9713.3	11483.2	13207.6	13773.4	13684.9	13148.6	12821.4	12606.9
65°	6294.0	6369.1	6862.6	8350.9	10319.3	12631.0	14591.3	14481.4	13987.9	13499.9	13092.2
67.5°	4076.2	4148.7	4623.3	5961.5	8104.2	11142.6	14559.2	14862.2	14328.5	13741.2	12789.2
70°	1925.5	1906.7	2349.2	3311.9	5191.8	8509.2	13575.0	14173.0	13719.8	12456.7	10622.4
72.5°	587.3	638.3	976.2	1466.9	2665.6	5307.2	10641.1	11201.6	11059.5	9951.9	7090.5
75°	260.1	281.6	383.5	600.7	1080.7	2177.6	6572.9	7071.7	7010.1	5870.3	3236.9
77.5°	166.3	182.4	241.4	343.3	490.8	691.9	3027.7	3513.1	3405.8	2062.3	847.4
80°	118.0	126.0	171.6	236.0	308.4	284.3	1043.2	1239.0	1188.0	560.5	227.9
82.5°	64.4	69.7	126.0	174.3	206.5	144.8	292.3	364.7	380.8	249.4	110.0
85°	24.1	29.5	77.8	123.4	107.3	67.0	85.8	104.6	136.8	136.8	51.0
87.5°	0.0	2.7	32.2	53.6	26.8	18.8	24.1	29.5	37.5	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°	2129.3	2129.3	2129.3	2129.3	2129.3	2129.3	2129.3	2129.3	2129.3	2129.3	2129.3
2.5°	2153.4	2134.7	2142.7	2156.1	2126.6	2142.7	2110.5	2134.7	2142.7	2110.5	2126.6
5°	2180.3	2199.0	2188.3	2166.8	2148.1	2153.4	2145.4	2126.6	2142.7	2148.1	2137.3
7.5°	2258.0	2236.6	2241.9	2217.8	2180.3	2177.6	2126.6	2113.2	2118.6	2123.9	2105.2
10°	2330.4	2343.8	2317.0	2298.3	2236.6	2196.3	2126.6	2051.5	2043.5	2011.3	2038.1
12.5°	2459.2	2427.0	2416.2	2354.6	2292.9	2158.8	2008.6	1893.3	1796.8	1761.9	1727.0
15°	2566.4	2561.1	2542.3	2448.4	2306.3	2062.3	1778.0	1509.8	1324.8	1209.5	1193.4
17.5°	2713.9	2689.8	2654.9	2507.4	2207.1	1810.2	1324.8	986.9	801.8	729.4	702.6
20°	2826.6	2807.8	2759.5	2494.0	2027.4	1348.9	820.6	627.5	581.9	568.5	571.2
22.5°	2990.1	2931.1	2840.0	2427.0	1700.2	898.4	590.0	560.5	552.4	541.7	544.4
25°	3132.3	3078.6	2888.2	2311.7	1212.1	595.3	547.1	531.0	517.6	504.2	501.5
27.5°	3258.3	3191.3	2939.2	2075.7	758.9	512.2	506.8	488.1	461.3	439.8	431.8
30°	3381.7	3303.9	2952.6	1633.2	512.2	463.9	450.5	421.0	386.2	356.7	351.3
32.5°	3588.2	3494.3	2933.8	1166.6	442.5	413.0	383.5	348.6	297.7	273.5	268.2
35°	3910.0	3767.8	2909.7	686.5	396.9	364.7	319.1	273.5	236.0	211.9	206.5
37.5°	4280.1	4033.3	2840.0	458.6	364.7	321.8	262.8	217.2	185.0	166.3	160.9
40°	4829.8	4422.2	2571.8	375.4	324.5	273.5	211.9	171.6	147.5	134.1	128.7
42.5°	5435.9	4867.4	2158.8	337.9	286.9	233.3	168.9	139.5	120.7	107.3	107.3
45°	6162.6	5331.3	1665.4	308.4	254.8	193.1	139.5	112.6	96.5	85.8	80.5
47.5°	6972.5	5752.3	1123.6	278.9	214.5	158.2	115.3	85.8	69.7	61.7	61.7
50°	7696.6	6125.1	716.0	244.0	187.7	131.4	93.9	69.7	56.3	45.6	42.9
52.5°	8353.6	6409.4	493.4	214.5	160.9	107.3	77.8	56.3	42.9	34.9	34.9
55°	9026.7	6554.2	364.7	185.0	139.5	91.2	64.4	51.0	37.5	29.5	26.8
57.5°	9579.2	6615.8	278.9	160.9	118.0	72.4	56.3	42.9	32.2	24.1	21.5
60°	10051.2	6586.4	217.2	134.1	93.9	61.7	48.3	34.9	26.8	18.8	16.1
62.5°	10327.4	6409.4	171.6	115.3	75.1	53.6	40.2	29.5	18.8	13.4	10.7
65°	10332.7	6033.9	134.1	85.8	56.3	45.6	34.9	24.1	13.4	5.4	2.7
67.5°	9592.6	5221.3	107.3	67.0	45.6	34.9	26.8	18.8	5.4	0.0	0.0
70°	7503.5	3950.2	88.5	53.6	37.5	29.5	18.8	10.7	2.7	0.0	0.0
72.5°	4781.5	2365.3	72.4	42.9	32.2	21.5	13.4	8.0	0.0	0.0	0.0
75°	2000.6	729.4	56.3	37.5	24.1	16.1	10.7	2.7	0.0	0.0	0.0
77.5°	514.9	230.6	45.6	32.2	24.1	13.4	8.0	2.7	0.0	0.0	0.0
80°	152.9	85.8	37.5	26.8	18.8	10.7	5.4	2.7	0.0	0.0	0.0
82.5°	69.7	51.0	32.2	24.1	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	8.0	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)