

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: P481415

Luminaire Tested: **IFLD-M-SA4C-827-U-RW**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481415
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4C-827-U-RW
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ RW distribution lens
Light Source: (64) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21527.7 lumens
Efficiency: N/A
Efficacy: 98.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

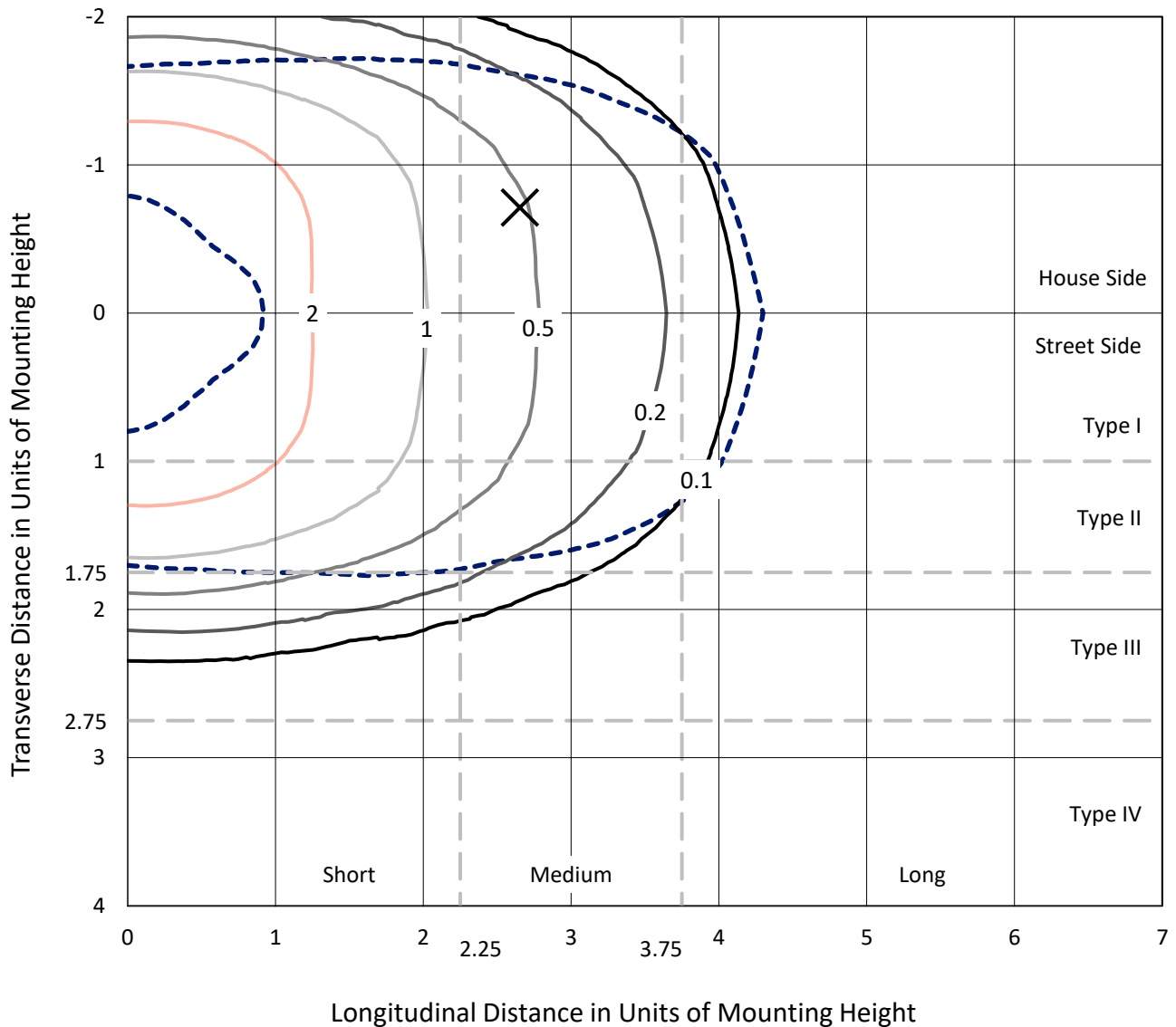
Input Watts (W): 218.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

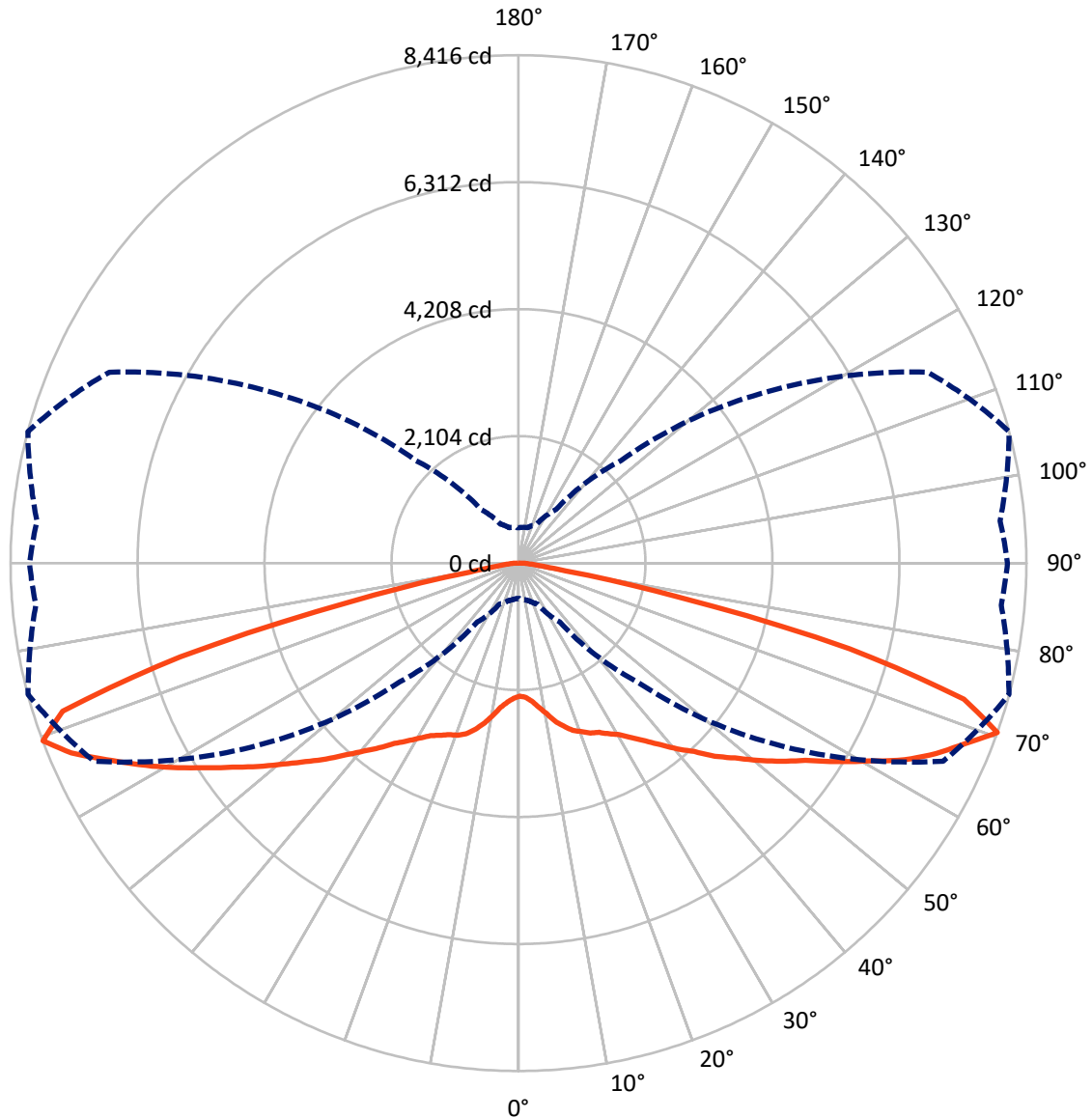
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 105-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10687.3	0.0	10687.3
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	10840.4	0.0	10840.4
	% Fixture	50.4	0.0	50.4
Total	Lumens	21527.7	0.0	21527.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	219.4	1.0
10°-20°	747.1	3.5
20°-30°	1446.6	6.7
30°-40°	2446.8	11.4
40°-50°	3903.4	18.1
50°-60°	5342.9	24.8
60°-70°	5036.0	23.4
70°-80°	2218.5	10.3
80°-90°	166.9	0.8
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°	21527.7	100.0
0°-180°	21527.7	100.0

Coefficient of Utilization



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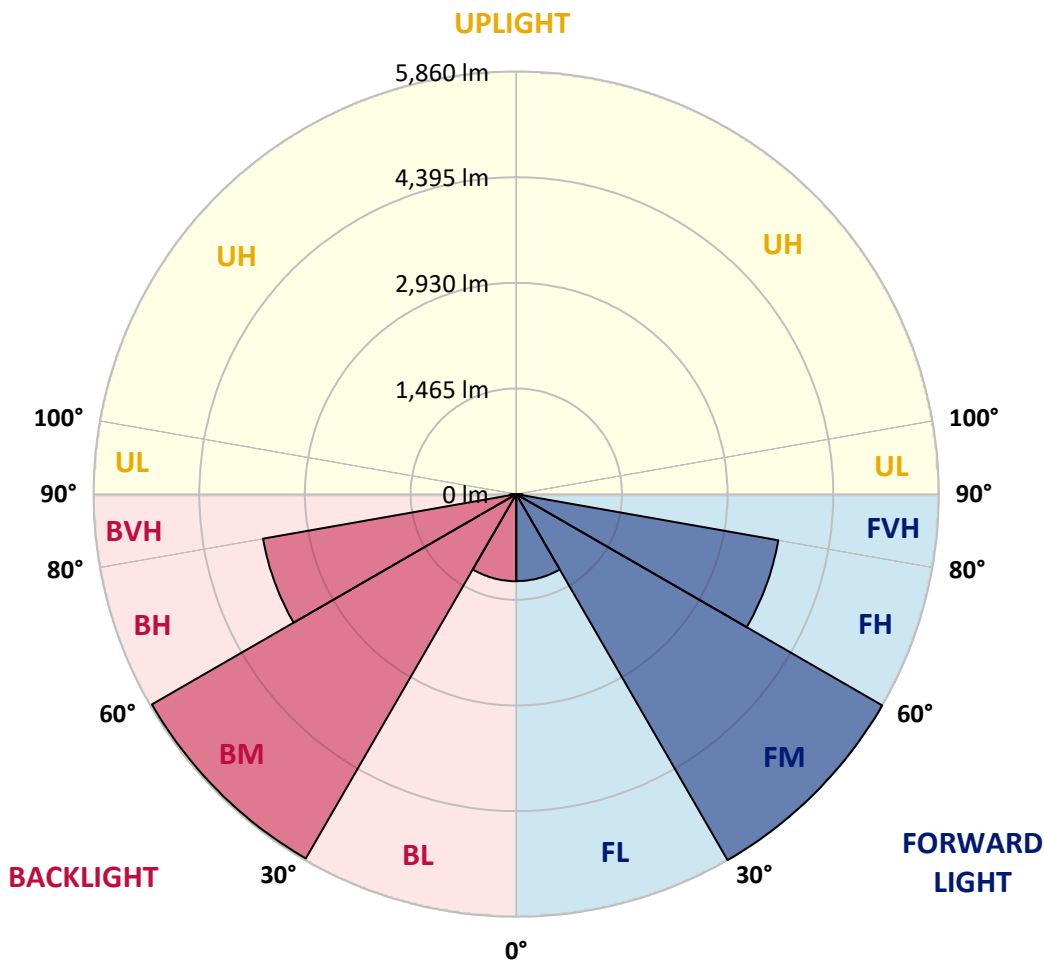
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1205.9	5.6			
FM (30°-60°)	5859.7	27.2			
FH (60°-80°)	3689.6	17.1			G2/5000
FVH (80°-90°)	85.3	0.4			G1/100
BL (0°-30°)	1207.2	5.6	B3/2500		
BM (30°-60°)	5833.5	27.1	B4/8500		
BH (60°-80°)	3565.0	16.6	B4/5000		G4/5000
BVH (80°-90°)	81.7	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2204.4	2204.4	2204.4	2204.4	2204.4	2204.4	2204.4	2204.4	2204.4	2204.4	2204.4
2.5°	2190.5	2190.5	2188.2	2199.8	2211.4	2216.0	2225.3	2227.6	2241.5	2229.9	2253.1
5°	2183.5	2181.2	2199.8	2227.6	2227.6	2257.8	2276.3	2301.9	2308.8	2322.8	2327.4
7.5°	2232.3	2227.6	2218.3	2248.5	2274.0	2320.4	2346.0	2390.1	2406.3	2424.9	2445.7
10°	2262.4	2262.4	2253.1	2306.5	2329.7	2392.4	2448.1	2492.1	2554.8	2575.7	2578.0
12.5°	2267.1	2274.0	2301.9	2371.5	2436.5	2517.7	2559.4	2643.0	2705.6	2745.1	2759.0
15°	2336.7	2322.8	2352.9	2448.1	2543.2	2615.1	2689.4	2749.7	2840.2	2891.3	2923.8
17.5°	2399.3	2385.4	2441.1	2554.8	2652.3	2763.6	2828.6	2893.6	2958.6	3005.0	3007.3
20°	2499.1	2510.7	2559.4	2682.4	2810.0	2907.5	2981.8	2993.4	3025.9	3093.1	3081.5
22.5°	2622.1	2612.8	2714.9	2849.5	2988.7	3069.9	3111.7	3081.5	3065.3	3137.2	3153.5
25°	2745.1	2772.9	2865.7	2991.0	3158.1	3267.2	3278.8	3195.2	3134.9	3160.4	3153.5
27.5°	2933.0	2937.7	3035.1	3183.6	3353.0	3448.2	3441.2	3322.9	3206.8	3209.2	3213.8
30°	3174.4	3151.2	3257.9	3392.5	3559.6	3645.4	3657.0	3487.6	3332.1	3285.7	3297.3
32.5°	3406.4	3434.2	3527.1	3680.2	3803.2	3851.9	3826.4	3675.6	3473.7	3411.0	3418.0
35°	3703.4	3698.8	3826.4	3956.3	4049.2	4058.4	4037.6	3817.1	3626.8	3545.6	3513.1
37.5°	4021.3	4063.1	4146.6	4253.4	4350.8	4355.5	4241.8	4065.4	3831.0	3696.5	3735.9
40°	4376.3	4422.8	4483.1	4638.6	4710.5	4636.2	4520.2	4281.2	4037.6	3919.2	3937.8
42.5°	4689.6	4710.5	4833.5	5016.8	5051.6	5019.1	4847.4	4557.3	4274.2	4144.3	4153.6
45°	4977.3	5005.2	5165.3	5330.0	5411.3	5355.6	5156.0	4879.9	4550.4	4439.0	4394.9
47.5°	5241.9	5297.6	5453.0	5622.4	5747.7	5752.4	5506.4	5172.3	4824.2	4678.0	4675.7
50°	5420.5	5501.8	5654.9	5847.5	6030.8	6102.8	5856.8	5497.1	5123.5	4968.1	4951.8
52.5°	5518.0	5601.5	5754.7	6054.0	6258.2	6369.6	6253.6	5801.1	5473.9	5311.5	5286.0
55°	5399.7	5455.3	5706.0	6126.0	6441.5	6624.8	6548.3	6221.1	5822.0	5689.7	5712.9
57.5°	4896.1	5012.1	5320.8	5845.2	6436.9	6887.1	6880.1	6617.9	6223.4	6098.1	6102.8
60°	4030.6	4128.1	4508.6	5241.9	6177.0	6993.8	7239.8	7003.1	6673.6	6527.4	6522.7
62.5°	2844.9	2967.8	3408.7	4209.3	5411.3	6845.3	7652.8	7488.1	7114.5	7007.7	7047.2
65°	1591.8	1666.1	2074.5	2798.4	4123.4	6028.5	7727.1	7991.6	7562.3	7399.9	7406.8
67.5°	851.6	879.4	1069.7	1468.8	2522.3	4647.8	6977.6	8281.6	8047.3	7766.5	7722.4
70°	584.8	594.0	642.8	751.8	1192.7	2779.9	5262.8	7764.2	8411.6	8028.7	8103.0
72.5°	494.3	489.6	501.2	512.8	624.2	1243.8	3088.5	5975.1	7940.5	7796.7	7768.8
75°	429.3	427.0	431.6	420.0	433.9	547.6	1366.7	3724.3	5812.7	6487.9	6592.4
77.5°	355.0	357.3	359.7	348.1	343.4	362.0	549.9	1635.9	2861.1	3158.1	3406.4
80°	269.2	273.8	292.4	280.8	262.2	264.5	324.9	547.6	821.4	744.9	768.1
82.5°	183.3	185.6	225.1	211.2	197.2	178.7	208.8	283.1	320.2	243.6	213.5
85°	129.9	127.6	146.2	134.6	125.3	90.5	125.3	160.1	192.6	120.7	109.1
87.5°	30.2	30.2	60.3	48.7	46.4	37.1	48.7	62.7	83.5	53.4	48.7
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2204.4	2204.4	2204.4	2204.4	2204.4	2204.4	2204.4	2204.4	2204.4	2204.4
2.5°	2246.2	2225.3	2225.3	2220.7	2202.1	2197.5	2181.2	2185.9	2174.2	2162.6
5°	2325.1	2297.2	2297.2	2257.8	2220.7	2216.0	2197.5	2197.5	2178.9	2183.5
7.5°	2434.1	2408.6	2366.8	2332.0	2281.0	2260.1	2225.3	2220.7	2216.0	2206.7
10°	2564.1	2531.6	2489.8	2417.9	2376.1	2336.7	2301.9	2253.1	2241.5	2243.9
12.5°	2740.4	2689.4	2598.9	2536.2	2482.9	2431.8	2380.8	2308.8	2292.6	2299.6
15°	2865.7	2800.8	2710.3	2687.1	2615.1	2552.5	2468.9	2387.7	2359.9	2352.9
17.5°	2967.8	2914.5	2861.1	2826.3	2768.3	2691.7	2575.7	2482.9	2420.2	2413.3
20°	3051.4	2981.8	2970.2	2991.0	2919.1	2868.1	2726.5	2612.8	2529.3	2494.5
22.5°	3102.4	3058.3	3090.8	3109.4	3104.7	3018.9	2872.7	2740.4	2636.0	2603.5
25°	3158.1	3107.1	3223.1	3285.7	3302.0	3160.4	3046.7	2872.7	2770.6	2749.7
27.5°	3186.0	3204.5	3339.1	3471.4	3459.8	3350.7	3197.6	3042.1	2960.9	2923.8
30°	3267.2	3297.3	3501.5	3650.0	3652.4	3545.6	3429.6	3253.3	3162.8	3146.5
32.5°	3413.4	3450.5	3668.6	3826.4	3854.2	3773.0	3657.0	3547.9	3455.1	3418.0
35°	3524.7	3619.9	3865.8	4009.7	4084.0	4035.2	3970.3	3856.6	3759.1	3726.6
37.5°	3684.9	3817.1	4053.8	4248.7	4332.3	4327.6	4278.9	4155.9	4074.7	4046.8
40°	3914.6	4046.8	4262.6	4520.2	4675.7	4668.7	4640.9	4545.7	4425.1	4411.2
42.5°	4158.2	4267.3	4548.1	4842.8	5065.5	5042.3	4968.1	4856.7	4773.1	4754.6
45°	4394.9	4564.3	4824.2	5202.4	5369.5	5427.5	5339.3	5149.1	5053.9	5042.3
47.5°	4691.9	4826.5	5151.4	5490.2	5738.4	5747.7	5596.9	5420.5	5246.5	5283.6
50°	4956.5	5135.1	5464.6	5835.9	6132.9	6026.2	5833.6	5613.1	5487.8	5439.1
52.5°	5239.5	5457.7	5840.5	6218.8	6383.5	6276.8	5963.5	5717.6	5527.3	5506.4
55°	5652.6	5766.3	6267.5	6557.6	6610.9	6385.8	5924.1	5576.0	5330.0	5269.7
57.5°	6072.6	6204.9	6643.4	6894.0	6838.3	6325.5	5668.8	5130.5	4807.9	4722.1
60°	6497.2	6659.7	7028.6	7258.3	6970.6	5910.2	4947.2	4253.4	3877.5	3800.9
62.5°	6970.6	7181.8	7511.3	7592.5	6578.4	5088.7	3926.2	3069.9	2689.4	2561.8
65°	7390.6	7606.4	8012.5	7522.9	5745.4	3796.2	2538.6	1754.3	1473.5	1371.4
67.5°	7736.3	7980.0	8179.5	6657.3	4207.0	2223.0	1322.6	923.5	819.1	782.0
70°	8010.2	8416.2	7483.4	4893.8	2404.0	1083.6	714.7	608.0	594.0	584.8
72.5°	7771.1	7717.8	5587.6	2824.0	1053.5	596.4	517.5	501.2	498.9	501.2
75°	6355.7	5668.8	3341.4	1227.5	529.1	431.6	429.3	422.3	433.9	433.9
77.5°	3083.9	2696.3	1396.9	526.7	348.1	338.8	350.4	350.4	350.4	350.4
80°	714.7	791.3	498.9	320.2	252.9	252.9	278.5	280.8	269.2	264.5
82.5°	243.6	324.9	273.8	201.9	167.1	188.0	211.2	215.8	178.7	181.0
85°	120.7	190.3	148.5	116.0	85.9	116.0	136.9	143.9	123.0	118.3
87.5°	55.7	83.5	55.7	39.4	30.2	41.8	39.4	32.5	18.6	18.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)