

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: P481200

Luminaire Tested: **IFLD-S-SA3C-730-U-RW**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P481200  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3C-730-U-RW  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ RW distribution lens  
Light Source: (48) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

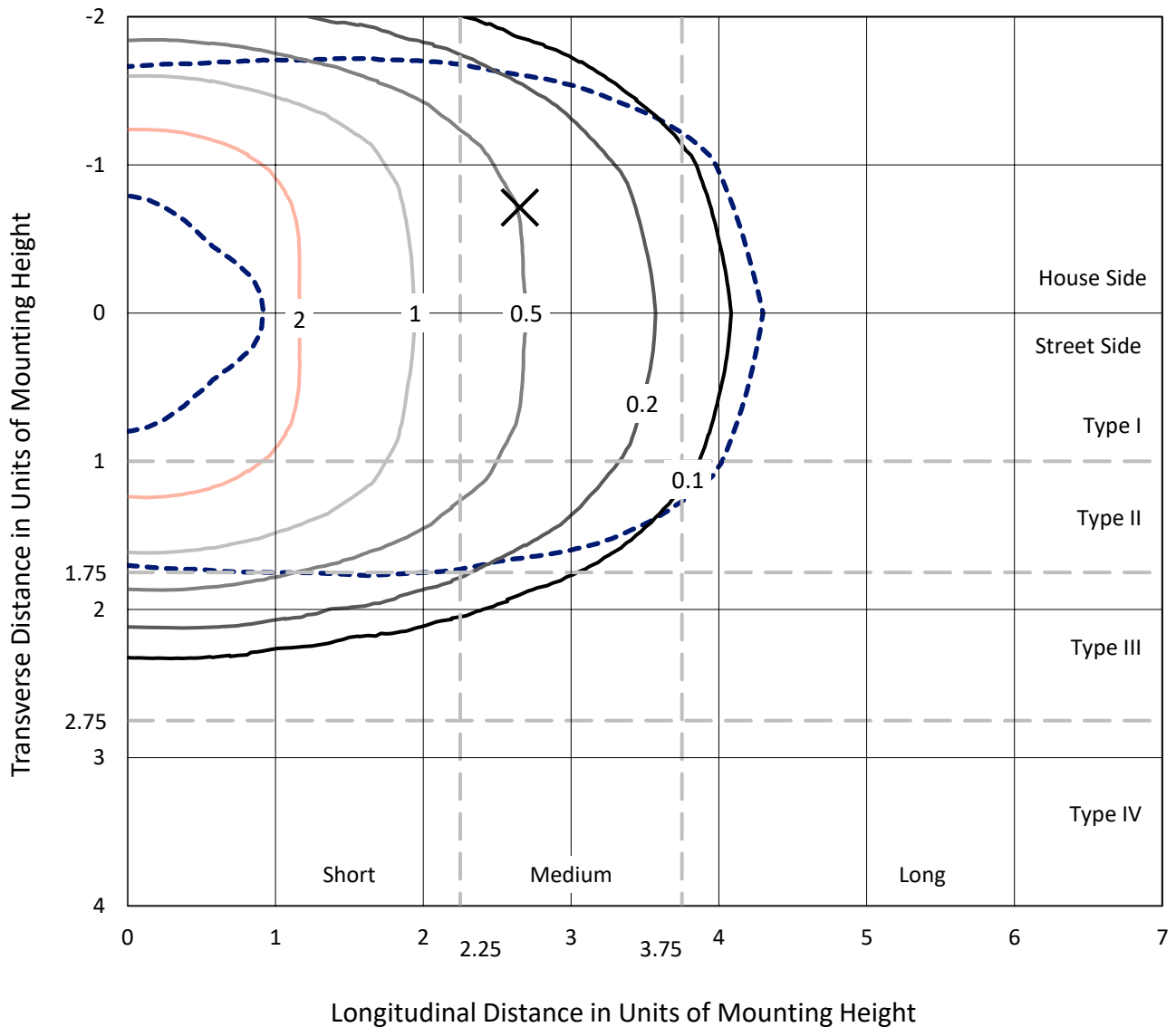
Lumens per Lamp: N/A  
Luminaire Lumens: 19867.5 lumens  
Efficiency: N/A  
Efficacy: 123.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G4

Input Watts (W): 160.8  
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

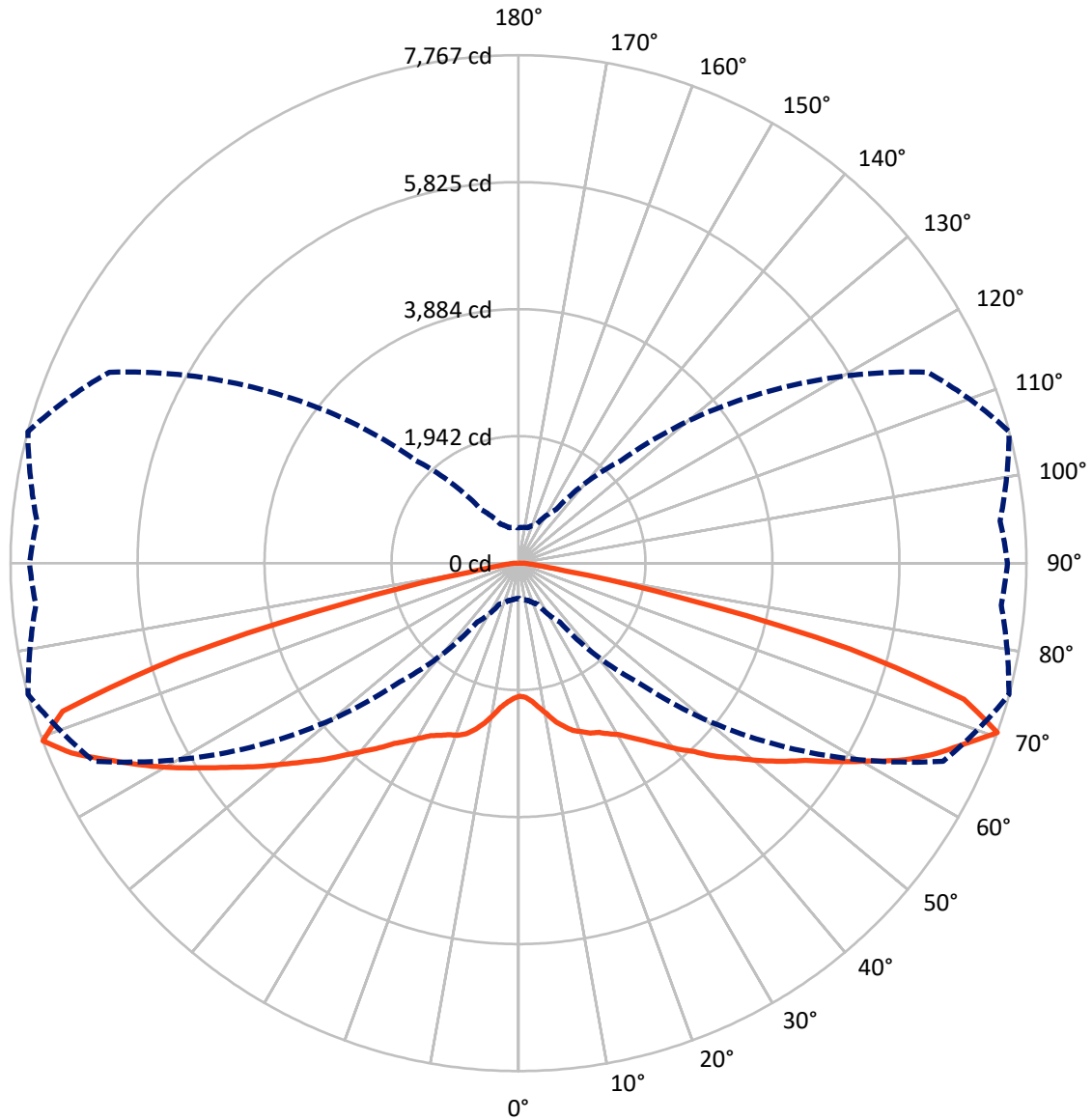
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 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
<b>House Side</b>	Lumens	9863.1	0.0	9863.1
	% Fixture	49.6	0.0	49.6
<b>Street Side</b>	Lumens	10004.4	0.0	10004.4
	% Fixture	50.4	0.0	50.4
<b>Total</b>	Lumens	19867.5	0.0	19867.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	202.5	1.0
10°-20°	689.5	3.5
20°-30°	1335.0	6.7
30°-40°	2258.1	11.4
40°-50°	3602.4	18.1
50°-60°	4930.9	24.8
60°-70°	4647.7	23.4
70°-80°	2047.4	10.3
80°-90°	154.0	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°	19867.5	100.0
0°-180°	19867.5	100.0

**Coefficient of Utilization**



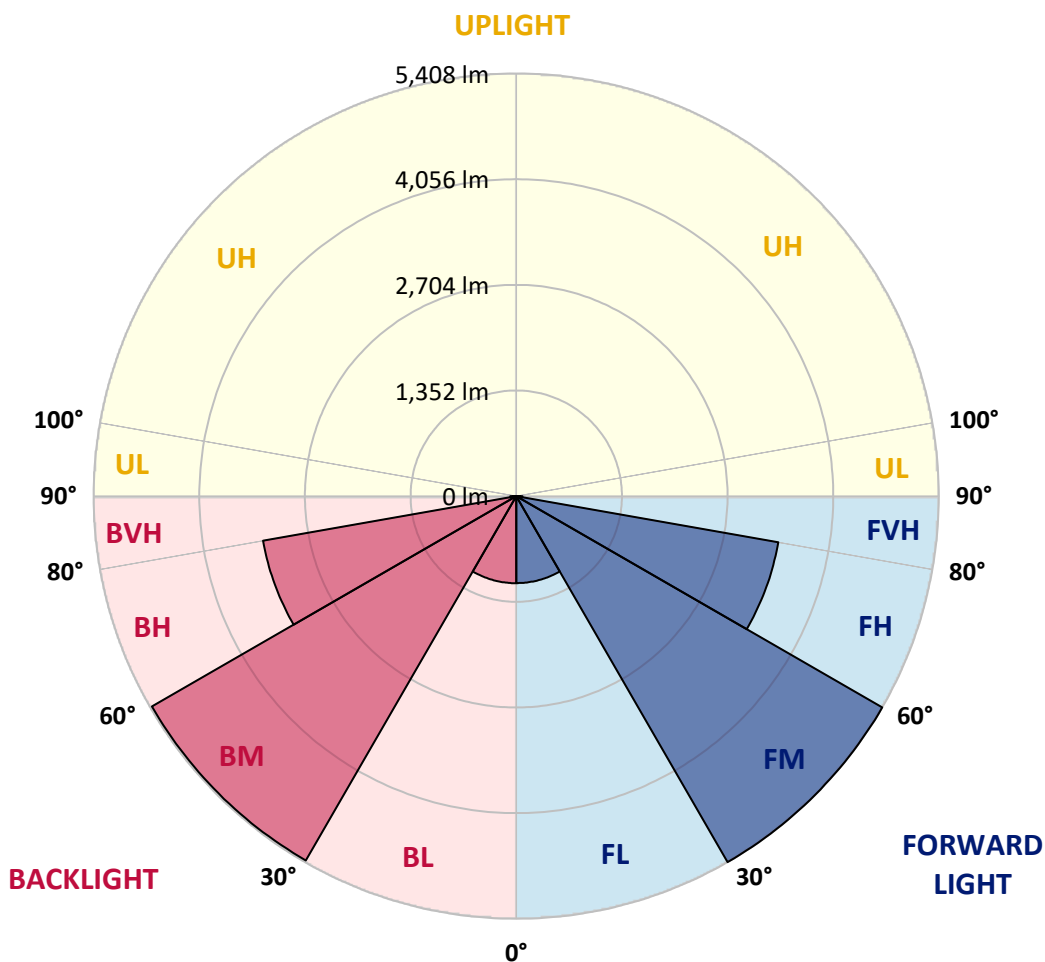
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1112.9	5.6			
FM (30°-60°)	5407.7	27.2			
FH (60°-80°)	3405.1	17.1			G2/5000
FVH (80°-90°)	78.7	0.4			G1/100
BL (0°-30°)	1114.1	5.6	B3/2500		
BM (30°-60°)	5383.6	27.1	B4/8500		
BH (60°-80°)	3290.0	16.6	B4/5000		G4/5000
BVH (80°-90°)	75.4	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°	2034.4	2034.4	2034.4	2034.4	2034.4	2034.4	2034.4	2034.4	2034.4	2034.4	2034.4
2.5°	2021.6	2021.6	2019.4	2030.1	2040.8	2045.1	2053.7	2055.8	2068.7	2058.0	2079.4
5°	2015.1	2013.0	2030.1	2055.8	2055.8	2083.7	2100.8	2124.4	2130.8	2143.6	2147.9
7.5°	2060.1	2055.8	2047.3	2075.1	2098.7	2141.5	2165.0	2205.7	2220.7	2237.9	2257.1
10°	2087.9	2087.9	2079.4	2128.6	2150.1	2207.9	2259.3	2300.0	2357.8	2377.0	2379.2
12.5°	2092.2	2098.7	2124.4	2188.6	2248.6	2323.5	2362.1	2439.2	2497.0	2533.4	2546.2
15°	2156.5	2143.6	2171.5	2259.3	2347.1	2413.5	2482.0	2537.7	2621.2	2668.3	2698.3
17.5°	2214.3	2201.4	2252.8	2357.8	2447.7	2550.5	2610.5	2670.4	2730.4	2773.2	2775.4
20°	2306.4	2317.1	2362.1	2475.6	2593.3	2683.3	2751.8	2762.5	2792.5	2854.6	2843.9
22.5°	2419.9	2411.3	2505.5	2629.7	2758.2	2833.2	2871.7	2843.9	2828.9	2895.3	2910.3
25°	2533.4	2559.1	2644.7	2760.4	2914.6	3015.2	3025.9	2948.8	2893.1	2916.7	2910.3
27.5°	2706.8	2711.1	2801.1	2938.1	3094.4	3182.2	3175.8	3066.6	2959.5	2961.7	2966.0
30°	2929.6	2908.1	3006.6	3130.9	3285.0	3364.3	3375.0	3218.7	3075.2	3032.3	3043.1
32.5°	3143.7	3169.4	3255.1	3396.4	3509.9	3554.9	3531.3	3392.1	3205.8	3148.0	3154.4
35°	3417.8	3413.5	3531.3	3651.2	3736.9	3745.5	3726.2	3522.7	3347.1	3272.2	3242.2
37.5°	3711.2	3749.7	3826.8	3925.3	4015.3	4019.6	3914.6	3751.9	3535.6	3411.4	3447.8
40°	4038.8	4081.7	4137.3	4280.8	4347.2	4278.7	4171.6	3951.0	3726.2	3617.0	3634.1
42.5°	4327.9	4347.2	4460.7	4629.9	4662.0	4632.0	4473.6	4205.9	3944.6	3824.7	3833.3
45°	4593.5	4619.2	4766.9	4919.0	4993.9	4942.5	4758.4	4503.5	4199.5	4096.7	4056.0
47.5°	4837.6	4889.0	5032.5	5188.8	5304.5	5308.7	5081.7	4773.4	4452.1	4317.2	4315.1
50°	5002.5	5077.5	5218.8	5396.5	5565.7	5632.1	5405.1	5073.2	4728.4	4584.9	4569.9
52.5°	5092.5	5169.5	5310.9	5587.1	5775.6	5878.4	5771.3	5353.7	5051.8	4901.9	4878.3
55°	4983.2	5034.6	5265.9	5653.5	5944.8	6113.9	6043.3	5741.3	5373.0	5250.9	5272.3
57.5°	4518.5	4625.6	4910.4	5394.4	5940.5	6355.9	6349.5	6107.5	5743.5	5627.8	5632.1
60°	3719.8	3809.7	4160.9	4837.6	5700.6	6454.4	6681.4	6463.0	6158.9	6024.0	6019.7
62.5°	2625.5	2739.0	3145.8	3884.7	4993.9	6317.4	7062.6	6910.6	6565.8	6467.3	6503.7
65°	1469.1	1537.6	1914.5	2582.6	3805.4	5563.6	7131.1	7375.3	6979.1	6829.2	6835.6
67.5°	785.9	811.6	987.2	1355.6	2327.8	4289.4	6439.4	7643.0	7426.7	7167.6	7126.9
70°	539.7	548.2	593.2	693.8	1100.7	2565.5	4856.9	7165.4	7762.9	7409.5	7478.1
72.5°	456.1	451.9	462.6	473.3	576.1	1147.8	2850.3	5514.3	7328.2	7195.4	7169.7
75°	396.2	394.0	398.3	387.6	400.5	505.4	1261.3	3437.1	5364.4	5987.6	6084.0
77.5°	327.6	329.8	331.9	321.2	316.9	334.1	507.5	1509.7	2640.5	2914.6	3143.7
80°	248.4	252.7	269.8	259.1	242.0	244.1	299.8	505.4	758.1	687.4	708.8
82.5°	169.2	171.3	207.7	194.9	182.0	164.9	192.7	261.3	295.5	224.9	197.0
85°	119.9	117.8	134.9	124.2	115.6	83.5	115.6	147.8	177.7	111.4	100.6
87.5°	27.8	27.8	55.7	45.0	42.8	34.3	45.0	57.8	77.1	49.3	45.0
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°	2034.4	2034.4	2034.4	2034.4	2034.4	2034.4	2034.4	2034.4	2034.4	2034.4
2.5°	2073.0	2053.7	2053.7	2049.4	2032.3	2028.0	2013.0	2017.3	2006.6	1995.9
5°	2145.8	2120.1	2120.1	2083.7	2049.4	2045.1	2028.0	2028.0	2010.9	2015.1
7.5°	2246.4	2222.9	2184.3	2152.2	2105.1	2085.8	2053.7	2049.4	2045.1	2036.6
10°	2366.3	2336.4	2297.8	2231.4	2192.9	2156.5	2124.4	2079.4	2068.7	2070.8
12.5°	2529.1	2482.0	2398.5	2340.6	2291.4	2244.3	2197.2	2130.8	2115.8	2122.2
15°	2644.7	2584.8	2501.3	2479.8	2413.5	2355.6	2278.5	2203.6	2177.9	2171.5
17.5°	2739.0	2689.7	2640.5	2608.3	2554.8	2484.1	2377.0	2291.4	2233.6	2227.1
20°	2816.1	2751.8	2741.1	2760.4	2694.0	2646.9	2516.2	2411.3	2334.2	2302.1
22.5°	2863.2	2822.5	2852.5	2869.6	2865.3	2786.1	2651.2	2529.1	2432.7	2402.7
25°	2914.6	2867.4	2974.5	3032.3	3047.3	2916.7	2811.8	2651.2	2556.9	2537.7
27.5°	2940.3	2957.4	3081.6	3203.7	3193.0	3092.3	2951.0	2807.5	2732.5	2698.3
30°	3015.2	3043.1	3231.5	3368.6	3370.7	3272.2	3165.1	3002.4	2918.8	2903.9
32.5°	3150.1	3184.4	3385.7	3531.3	3557.0	3482.1	3375.0	3274.3	3188.7	3154.4
35°	3252.9	3340.7	3567.7	3700.5	3769.0	3724.0	3664.1	3559.1	3469.2	3439.2
37.5°	3400.7	3522.7	3741.2	3921.1	3998.2	3993.9	3948.9	3835.4	3760.4	3734.8
40°	3612.7	3734.8	3933.9	4171.6	4315.1	4308.7	4283.0	4195.2	4083.8	4071.0
42.5°	3837.5	3938.2	4197.3	4469.3	4674.9	4653.4	4584.9	4482.1	4405.0	4387.9
45°	4056.0	4212.3	4452.1	4801.2	4955.4	5008.9	4927.6	4752.0	4664.2	4653.4
47.5°	4330.1	4454.3	4754.1	5066.8	5295.9	5304.5	5165.3	5002.5	4841.9	4876.2
50°	4574.2	4739.1	5043.2	5385.8	5659.9	5561.4	5383.7	5180.3	5064.6	5019.6
52.5°	4835.5	5036.8	5390.1	5739.2	5891.2	5792.7	5503.6	5276.6	5101.0	5081.7
55°	5216.7	5321.6	5784.2	6051.8	6101.1	5893.4	5467.2	5146.0	4919.0	4863.3
57.5°	5604.3	5726.3	6131.1	6362.4	6311.0	5837.7	5231.6	4734.8	4437.2	4357.9
60°	5996.2	6146.1	6486.6	6698.6	6433.0	5454.4	4565.6	3925.3	3578.4	3507.8
62.5°	6433.0	6627.9	6932.0	7006.9	6071.1	4696.3	3623.4	2833.2	2482.0	2364.2
65°	6820.6	7019.8	7394.5	6942.7	5302.3	3503.5	2342.8	1619.0	1359.8	1265.6
67.5°	7139.7	7364.6	7548.7	6143.9	3882.5	2051.5	1220.6	852.3	755.9	721.7
70°	7392.4	7767.2	6906.3	4516.4	2218.6	1000.1	659.6	561.1	548.2	539.7
72.5°	7171.8	7122.6	5156.7	2606.2	972.2	550.4	477.6	462.6	460.4	462.6
75°	5865.5	5231.6	3083.7	1132.8	488.3	398.3	396.2	389.8	400.5	400.5
77.5°	2846.0	2488.4	1289.2	486.1	321.2	312.7	323.4	323.4	323.4	323.4
80°	659.6	730.2	460.4	295.5	233.4	233.4	257.0	259.1	248.4	244.1
82.5°	224.9	299.8	252.7	186.3	154.2	173.5	194.9	199.2	164.9	167.0
85°	111.4	175.6	137.1	107.1	79.2	107.1	126.3	132.8	113.5	109.2
87.5°	51.4	77.1	51.4	36.4	27.8	38.5	36.4	30.0	17.1	17.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)