

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: P481135

Luminaire Tested: **IFLD-S-SA6A-722-U-RW**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481135
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6A-722-U-RW
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ RW distribution lens
Light Source: (96) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

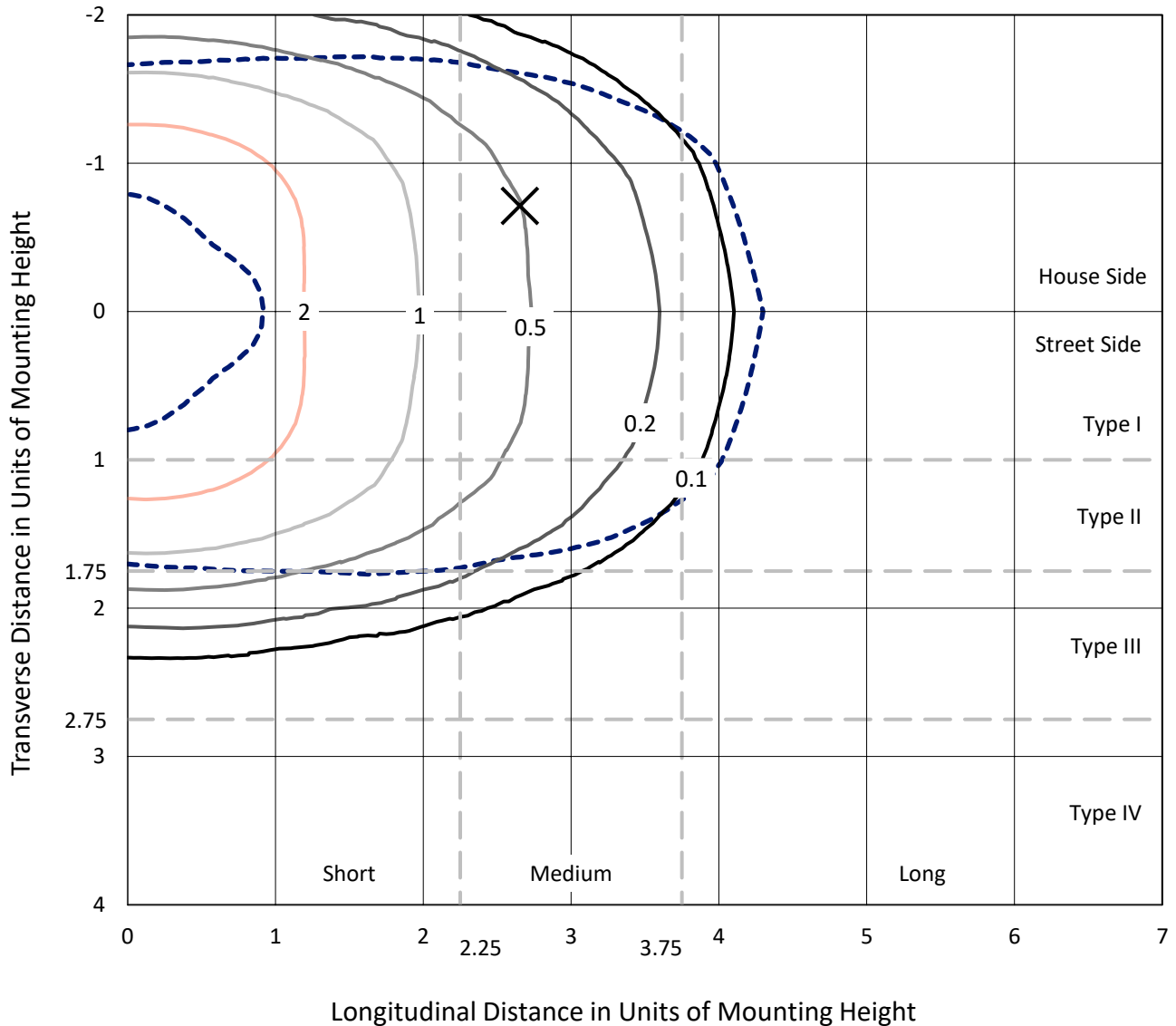
Lumens per Lamp: N/A
Luminaire Lumens: 20477.8 lumens
Efficiency: N/A
Efficacy: 108.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

Input Watts (W): 189.6
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

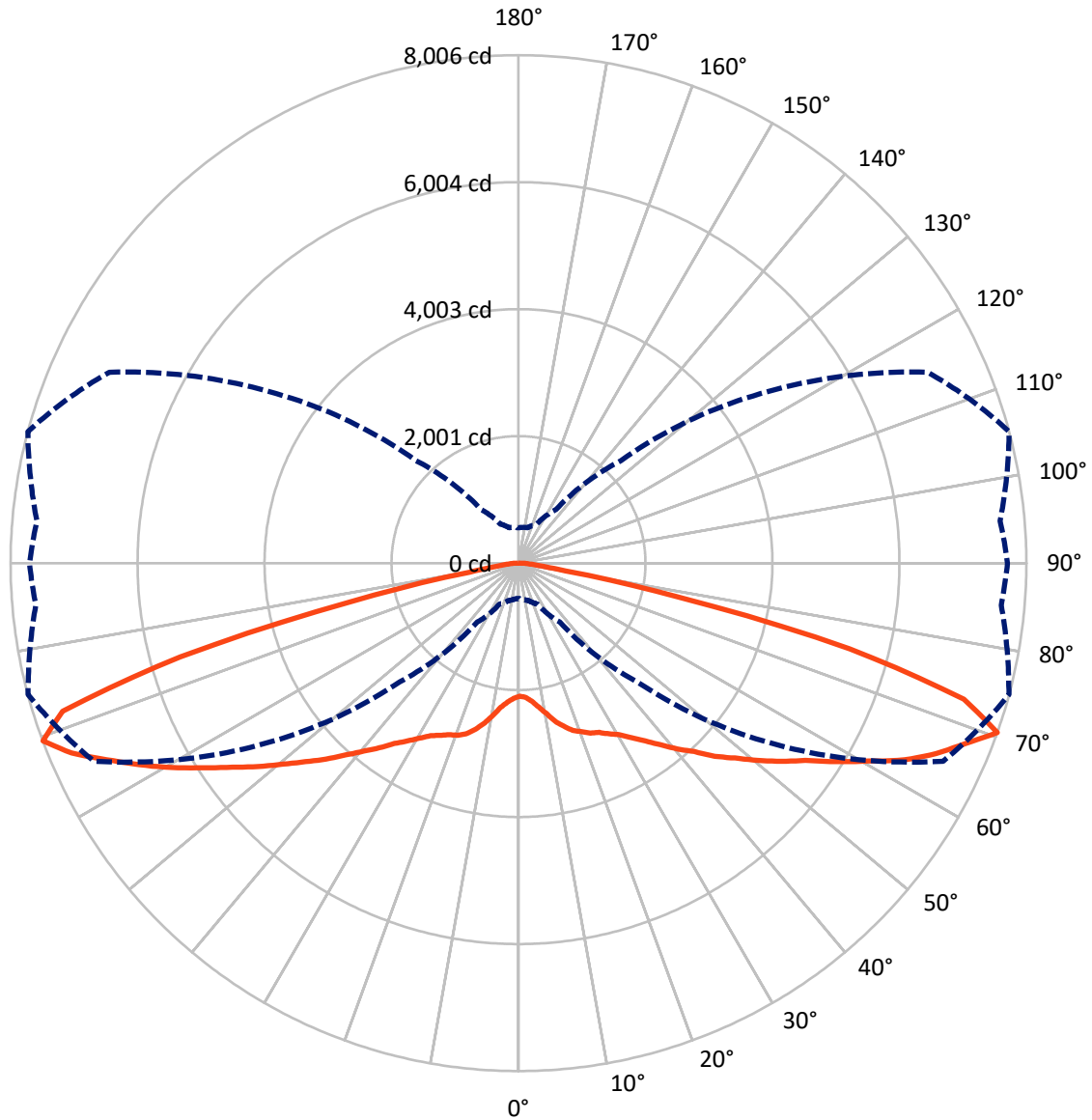
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 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	10166.0	0.0	10166.0
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	10311.7	0.0	10311.7
	% Fixture	50.4	0.0	50.4
Total	Lumens	20477.8	0.0	20477.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	208.7	1.0
10°-20°	710.6	3.5
20°-30°	1376.1	6.7
30°-40°	2327.5	11.4
40°-50°	3713.0	18.1
50°-60°	5082.3	24.8
60°-70°	4790.4	23.4
70°-80°	2110.3	10.3
80°-90°	158.8	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°	20477.8	100.0
0°-180°	20477.8	100.0

Coefficient of Utilization



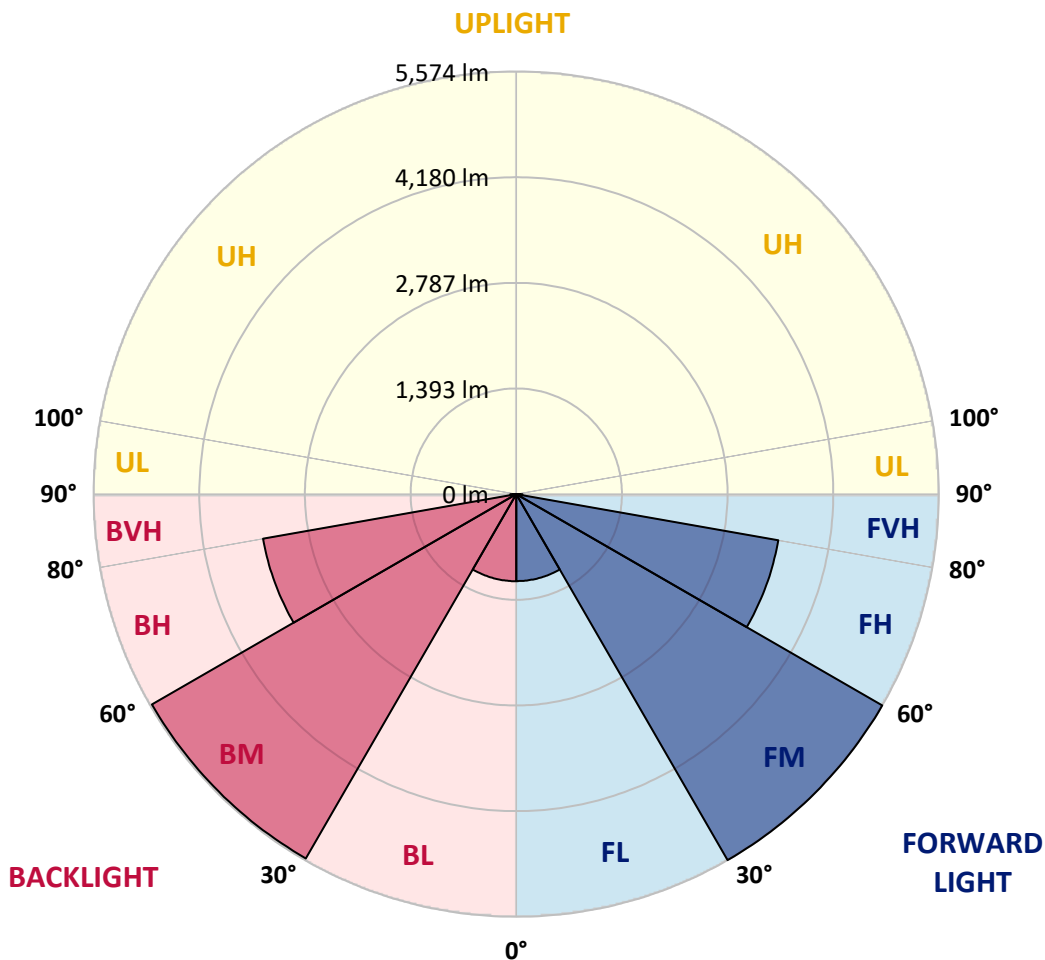
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1147.1	5.6			
FM (30°-60°)	5573.9	27.2			
FH (60°-80°)	3509.7	17.1			G2/5000
FVH (80°-90°)	81.1	0.4			G1/100
BL (0°-30°)	1148.3	5.6	B3/2500		
BM (30°-60°)	5549.0	27.1	B4/8500		
BH (60°-80°)	3391.1	16.6	B4/5000		G4/5000
BVH (80°-90°)	77.7	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°	2096.9	2096.9	2096.9	2096.9	2096.9	2096.9	2096.9	2096.9	2096.9	2096.9	2096.9
2.5°	2083.7	2083.7	2081.5	2092.5	2103.5	2107.9	2116.8	2119.0	2132.2	2121.2	2143.3
5°	2077.0	2074.8	2092.5	2119.0	2119.0	2147.7	2165.3	2189.6	2196.2	2209.5	2213.9
7.5°	2123.4	2119.0	2110.1	2138.8	2163.1	2207.3	2231.5	2273.5	2288.9	2306.6	2326.5
10°	2152.1	2152.1	2143.3	2194.0	2216.1	2275.7	2328.7	2370.6	2430.2	2450.1	2452.3
12.5°	2156.5	2163.1	2189.6	2255.8	2317.6	2394.9	2434.6	2514.1	2573.7	2611.2	2624.4
15°	2222.7	2209.5	2238.2	2328.7	2419.2	2487.6	2558.2	2615.6	2701.7	2750.3	2781.2
17.5°	2282.3	2269.1	2322.0	2430.2	2522.9	2628.9	2690.7	2752.5	2814.3	2858.4	2860.6
20°	2377.2	2388.3	2434.6	2551.6	2673.0	2765.7	2836.3	2847.4	2878.3	2942.3	2931.2
22.5°	2494.2	2485.4	2582.5	2710.5	2843.0	2920.2	2959.9	2931.2	2915.8	2984.2	2999.7
25°	2611.2	2637.7	2726.0	2845.2	3004.1	3107.8	3118.9	3039.4	2982.0	3006.3	2999.7
27.5°	2790.0	2794.4	2887.1	3028.4	3189.5	3280.0	3273.4	3160.8	3050.4	3052.6	3057.1
30°	3019.5	2997.5	3099.0	3227.0	3385.9	3467.6	3478.7	3317.5	3169.6	3125.5	3136.5
32.5°	3240.3	3266.8	3355.0	3500.7	3617.7	3664.1	3639.8	3496.3	3304.3	3244.7	3251.3
35°	3522.8	3518.4	3639.8	3763.4	3851.7	3860.5	3840.6	3631.0	3450.0	3372.7	3341.8
37.5°	3825.2	3864.9	3944.4	4045.9	4138.6	4143.0	4034.9	3867.1	3644.2	3516.2	3553.7
40°	4162.9	4207.0	4264.4	4412.3	4480.7	4410.1	4299.8	4072.4	3840.6	3728.1	3745.7
42.5°	4460.9	4480.7	4597.7	4772.1	4805.2	4774.3	4611.0	4335.1	4065.8	3942.2	3951.0
45°	4734.6	4761.1	4913.4	5070.1	5147.3	5094.4	4904.5	4641.9	4328.4	4222.5	4180.6
47.5°	4986.2	5039.2	5187.1	5348.2	5467.4	5471.8	5237.8	4920.0	4588.9	4449.8	4447.6
50°	5156.2	5233.4	5379.1	5562.3	5736.7	5805.1	5571.1	5229.0	4873.6	4725.8	4710.3
52.5°	5248.9	5328.3	5474.0	5758.8	5953.0	6058.9	5948.6	5518.2	5206.9	5052.4	5028.2
55°	5136.3	5189.3	5427.7	5827.2	6127.4	6301.7	6228.9	5917.7	5538.0	5412.2	5434.3
57.5°	4657.3	4767.7	5061.3	5560.1	6123.0	6551.2	6544.5	6295.1	5919.9	5800.7	5805.1
60°	3834.0	3926.7	4288.7	4986.2	5875.7	6652.7	6886.7	6661.5	6348.1	6209.0	6204.6
62.5°	2706.1	2823.1	3242.5	4004.0	5147.3	6511.4	7279.6	7122.8	6767.5	6665.9	6703.5
65°	1514.2	1584.8	1973.3	2662.0	3922.3	5734.5	7350.2	7601.8	7193.5	7039.0	7045.6
67.5°	810.1	836.6	1017.5	1397.2	2399.3	4421.2	6637.2	7877.7	7654.8	7387.7	7345.8
70°	556.2	565.1	611.4	715.2	1134.5	2644.3	5006.1	7385.5	8001.3	7637.1	7707.8
72.5°	470.1	465.7	476.8	487.8	593.8	1183.1	2937.9	5683.7	7553.3	7416.4	7389.9
75°	408.3	406.1	410.6	399.5	412.8	520.9	1300.1	3542.7	5529.2	6171.5	6270.8
77.5°	337.7	339.9	342.1	331.1	326.7	344.3	523.1	1556.1	2721.6	3004.1	3240.3
80°	256.0	260.5	278.1	267.1	249.4	251.6	309.0	520.9	781.4	708.5	730.6
82.5°	174.4	176.6	214.1	200.9	187.6	170.0	198.7	269.3	304.6	231.8	203.1
85°	123.6	121.4	139.1	128.0	119.2	86.1	119.2	152.3	183.2	114.8	103.7
87.5°	28.7	28.7	57.4	46.4	44.1	35.3	46.4	59.6	79.5	50.8	46.4
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°	2096.9	2096.9	2096.9	2096.9	2096.9	2096.9	2096.9	2096.9	2096.9	2096.9
2.5°	2136.6	2116.8	2116.8	2112.4	2094.7	2090.3	2074.8	2079.2	2068.2	2057.2
5°	2211.7	2185.2	2185.2	2147.7	2112.4	2107.9	2090.3	2090.3	2072.6	2077.0
7.5°	2315.4	2291.1	2251.4	2218.3	2169.7	2149.9	2116.8	2112.4	2107.9	2099.1
10°	2439.0	2408.1	2368.4	2300.0	2260.2	2222.7	2189.6	2143.3	2132.2	2134.4
12.5°	2606.8	2558.2	2472.1	2412.5	2361.8	2313.2	2264.7	2196.2	2180.8	2187.4
15°	2726.0	2664.2	2578.1	2556.0	2487.6	2428.0	2348.5	2271.3	2244.8	2238.2
17.5°	2823.1	2772.3	2721.6	2688.4	2633.3	2560.4	2450.1	2361.8	2302.2	2295.6
20°	2902.6	2836.3	2825.3	2845.2	2776.7	2728.2	2593.5	2485.4	2405.9	2372.8
22.5°	2951.1	2909.2	2940.1	2957.7	2953.3	2871.7	2732.6	2606.8	2507.5	2476.6
25°	3004.1	2955.5	3065.9	3125.5	3140.9	3006.3	2898.1	2732.6	2635.5	2615.6
27.5°	3030.6	3048.2	3176.3	3302.1	3291.0	3187.3	3041.6	2893.7	2816.5	2781.2
30°	3107.8	3136.5	3330.8	3472.0	3474.2	3372.7	3262.3	3094.6	3008.5	2993.1
32.5°	3246.9	3282.2	3489.7	3639.8	3666.3	3589.0	3478.7	3374.9	3286.6	3251.3
35°	3352.8	3443.3	3677.3	3814.2	3884.8	3838.4	3776.6	3668.5	3575.8	3544.9
37.5°	3505.1	3631.0	3856.1	4041.5	4121.0	4116.5	4070.2	3953.2	3876.0	3849.5
40°	3723.7	3849.5	4054.7	4299.8	4447.6	4441.0	4414.5	4324.0	4209.3	4196.0
42.5°	3955.4	4059.2	4326.2	4606.6	4818.5	4796.4	4725.8	4619.8	4540.3	4522.7
45°	4180.6	4341.7	4588.9	4948.7	5107.6	5162.8	5078.9	4897.9	4807.4	4796.4
47.5°	4463.1	4591.1	4900.1	5222.4	5458.6	5467.4	5323.9	5156.2	4990.6	5025.9
50°	4714.7	4884.7	5198.1	5551.3	5833.8	5732.3	5549.1	5339.4	5220.2	5173.8
52.5°	4984.0	5191.5	5555.7	5915.5	6072.2	5970.7	5672.7	5438.7	5257.7	5237.8
55°	5376.9	5485.1	5961.8	6237.7	6288.5	6074.4	5635.1	5304.1	5070.1	5012.7
57.5°	5776.4	5902.2	6319.4	6557.8	6504.8	6017.0	5392.3	4880.3	4573.5	4491.8
60°	6180.3	6334.9	6685.8	6904.3	6630.6	5621.9	4705.9	4045.9	3688.3	3615.5
62.5°	6630.6	6831.5	7144.9	7222.2	6257.6	4840.5	3734.7	2920.2	2558.2	2436.8
65°	7030.1	7235.4	7621.7	7156.0	5465.2	3611.1	2414.7	1668.7	1401.6	1304.5
67.5°	7359.0	7590.8	7780.6	6332.6	4001.8	2114.6	1258.1	878.5	779.2	743.8
70°	7619.5	8005.8	7118.4	4655.1	2286.7	1030.8	679.8	578.3	565.1	556.2
72.5°	7392.1	7341.4	5315.1	2686.2	1002.1	567.3	492.2	476.8	474.6	476.8
75°	6045.7	5392.3	3178.5	1167.6	503.3	410.6	408.3	401.7	412.8	412.8
77.5°	2933.5	2564.8	1328.8	501.0	331.1	322.3	333.3	333.3	333.3	333.3
80°	679.8	752.7	474.6	304.6	240.6	240.6	264.9	267.1	256.0	251.6
82.5°	231.8	309.0	260.5	192.0	158.9	178.8	200.9	205.3	170.0	172.2
85°	114.8	181.0	141.3	110.4	81.7	110.4	130.2	136.9	117.0	112.6
87.5°	53.0	79.5	53.0	37.5	28.7	39.7	37.5	30.9	17.7	17.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)