

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: P481357

Luminaire Tested: **IFLD-S-SA3D-760-U-RW**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P481357  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3D-760-U-RW  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ RW distribution lens  
Light Source: (48) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

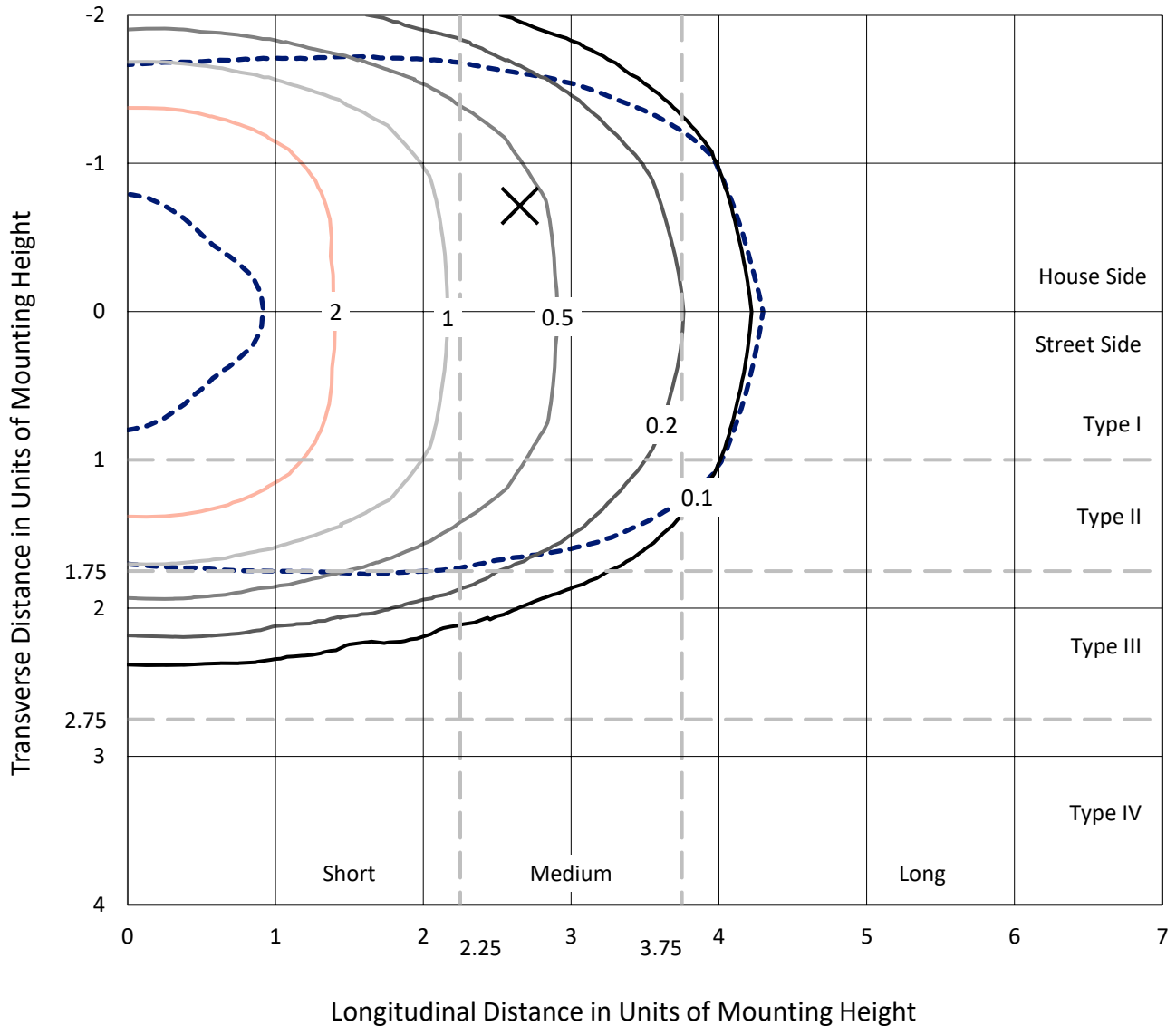
Lumens per Lamp: N/A  
Luminaire Lumens: 24556.6 lumens  
Efficiency: N/A  
Efficacy: 133.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G4

Input Watts (W): 184.1  
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

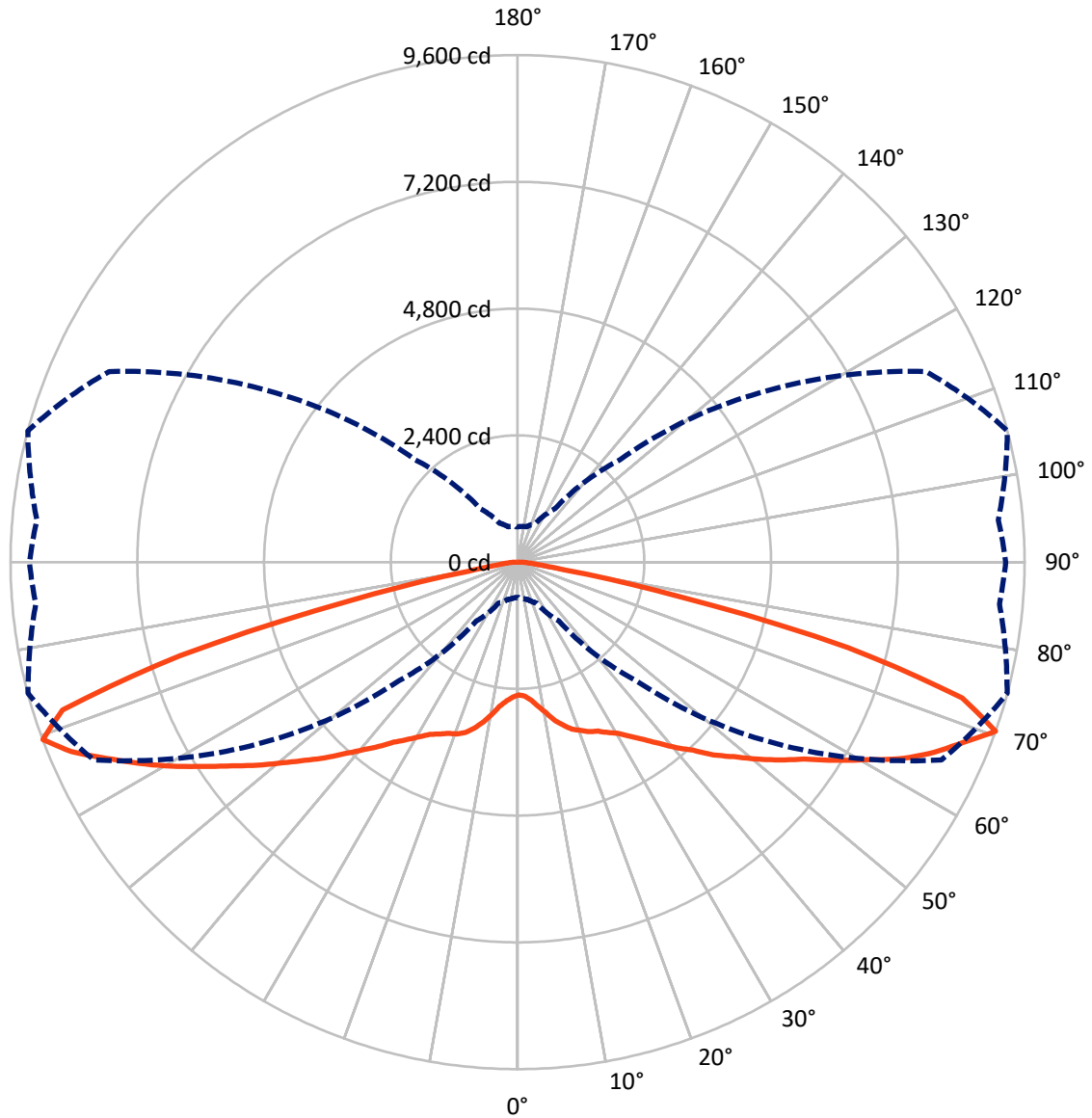
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 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	12191.0	0.0	12191.0
	% Fixture	49.6	0.0	49.6
<b>Street Side</b>	Lumens	12365.7	0.0	12365.7
	% Fixture	50.4	0.0	50.4
<b>Total</b>	Lumens	24556.6	0.0	24556.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	250.3	1.0
10°-20°	852.2	3.5
20°-30°	1650.1	6.7
30°-40°	2791.1	11.4
40°-50°	4452.6	18.1
50°-60°	6094.6	24.8
60°-70°	5744.6	23.4
70°-80°	2530.7	10.3
80°-90°	190.4	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°	24556.6	100.0
0°-180°	24556.6	100.0

**Coefficient of Utilization**

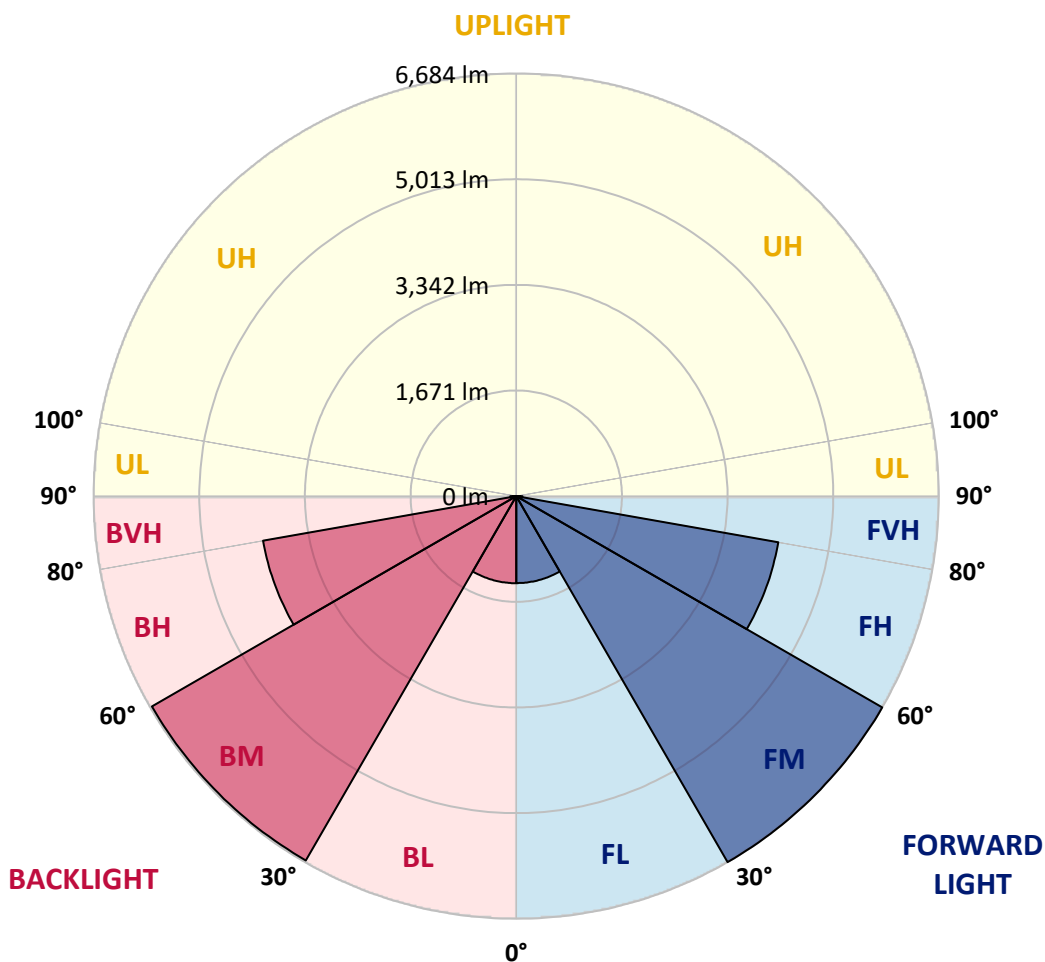


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1375.6	5.6			
FM (30°-60°)	6684.1	27.2			
FH (60°-80°)	4208.7	17.1			G2/5000
FVH (80°-90°)	97.3	0.4			G1/100
BL (0°-30°)	1377.1	5.6	B3/2500		
BM (30°-60°)	6654.2	27.1	B4/8500		
BH (60°-80°)	4066.5	16.6	B4/5000		G4/5000
BVH (80°-90°)	93.1	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°	2514.6	2514.6	2514.6	2514.6	2514.6	2514.6	2514.6	2514.6	2514.6	2514.6	2514.6
2.5°	2498.7	2498.7	2496.0	2509.3	2522.5	2527.8	2538.4	2541.0	2556.9	2543.7	2570.2
5°	2490.8	2488.1	2509.3	2541.0	2541.0	2575.5	2596.6	2625.7	2633.7	2649.6	2654.9
7.5°	2546.3	2541.0	2530.5	2564.9	2594.0	2646.9	2676.0	2726.3	2744.9	2766.0	2789.9
10°	2580.7	2580.7	2570.2	2631.0	2657.5	2729.0	2792.5	2842.8	2914.3	2938.1	2940.7
12.5°	2586.0	2594.0	2625.7	2705.2	2779.3	2871.9	2919.6	3014.8	3086.3	3131.3	3147.2
15°	2665.4	2649.6	2684.0	2792.5	2901.0	2983.1	3067.8	3136.6	3239.8	3298.1	3335.1
17.5°	2736.9	2721.0	2784.6	2914.3	3025.4	3152.5	3226.6	3300.7	3374.8	3427.8	3430.4
20°	2850.7	2864.0	2919.6	3059.8	3205.4	3316.6	3401.3	3414.5	3451.6	3528.3	3515.1
22.5°	2991.0	2980.4	3096.9	3250.4	3409.2	3501.9	3549.5	3515.1	3496.6	3578.6	3597.2
25°	3131.3	3163.1	3268.9	3411.9	3602.5	3726.9	3740.1	3644.8	3576.0	3605.1	3597.2
27.5°	3345.7	3351.0	3462.2	3631.6	3824.8	3933.3	3925.4	3790.4	3658.0	3660.7	3666.0
30°	3621.0	3594.5	3716.3	3869.8	4060.4	4158.3	4171.5	3978.3	3801.0	3748.0	3761.3
32.5°	3885.7	3917.4	4023.3	4198.0	4338.3	4393.9	4364.8	4192.7	3962.4	3891.0	3898.9
35°	4224.5	4219.2	4364.8	4513.0	4618.9	4629.5	4605.6	4354.2	4137.1	4044.5	4007.4
37.5°	4587.1	4634.8	4730.0	4851.8	4963.0	4968.3	4838.6	4637.4	4370.1	4216.5	4261.5
40°	4992.1	5045.0	5113.8	5291.2	5373.2	5288.5	5156.2	4883.6	4605.6	4470.6	4491.8
42.5°	5349.4	5373.2	5513.5	5722.6	5762.3	5725.3	5529.4	5198.5	4875.6	4727.4	4738.0
45°	5677.6	5709.4	5892.0	6080.0	6172.6	6109.1	5881.5	5566.5	5190.6	5063.6	5013.3
47.5°	5979.4	6042.9	6220.3	6413.5	6556.4	6561.7	6281.1	5900.0	5502.9	5336.2	5333.5
50°	6183.2	6275.8	6450.5	6670.2	6879.3	6961.4	6680.8	6270.6	5844.4	5667.1	5648.5
52.5°	6294.4	6389.7	6564.4	6905.8	7138.7	7265.8	7133.4	6617.3	6244.1	6058.8	6029.7
55°	6159.4	6222.9	6508.8	6987.9	7347.8	7557.0	7469.6	7096.4	6641.1	6490.2	6516.7
57.5°	5585.0	5717.3	6069.4	6667.6	7342.6	7856.1	7848.1	7549.0	7099.0	6956.1	6961.4
60°	4597.7	4708.9	5143.0	5979.4	7046.1	7977.8	8258.4	7988.4	7612.5	7445.8	7440.5
62.5°	3245.1	3385.4	3888.3	4801.5	6172.6	7808.4	8729.5	8541.6	8115.5	7993.7	8038.7
65°	1815.8	1900.5	2366.3	3192.2	4703.6	6876.7	8814.2	9116.0	8626.3	8441.0	8449.0
67.5°	971.4	1003.2	1220.2	1675.5	2877.2	5301.8	7959.3	9446.9	9179.5	8859.2	8808.9
70°	667.0	677.6	733.2	857.6	1360.5	3171.0	6003.2	8856.6	9595.1	9158.3	9243.0
72.5°	563.8	558.5	571.7	585.0	712.0	1418.7	3523.0	6815.8	9057.8	8893.6	8861.9
75°	489.7	487.0	492.3	479.1	495.0	624.7	1559.0	4248.3	6630.5	7400.8	7519.9
77.5°	405.0	407.6	410.3	397.0	391.7	412.9	627.3	1866.1	3263.7	3602.5	3885.7
80°	307.0	312.3	333.5	320.3	299.1	301.7	370.6	624.7	937.0	849.7	876.1
82.5°	209.1	211.8	256.8	240.9	225.0	203.8	238.2	322.9	365.3	277.9	243.5
85°	148.2	145.6	166.8	153.5	142.9	103.2	142.9	182.6	219.7	137.6	124.4
87.5°	34.4	34.4	68.8	55.6	52.9	42.4	55.6	71.5	95.3	60.9	55.6
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°	2514.6	2514.6	2514.6	2514.6	2514.6	2514.6	2514.6	2514.6	2514.6	2514.6
2.5°	2562.2	2538.4	2538.4	2533.1	2511.9	2506.6	2488.1	2493.4	2480.2	2466.9
5°	2652.2	2620.4	2620.4	2575.5	2533.1	2527.8	2506.6	2506.6	2485.5	2490.8
7.5°	2776.6	2747.5	2699.9	2660.2	2601.9	2578.1	2538.4	2533.1	2527.8	2517.2
10°	2924.8	2887.8	2840.1	2758.1	2710.4	2665.4	2625.7	2570.2	2556.9	2559.6
12.5°	3126.0	3067.8	2964.5	2893.1	2832.2	2774.0	2715.7	2633.7	2615.2	2623.1
15°	3268.9	3194.8	3091.6	3065.1	2983.1	2911.6	2816.3	2723.7	2691.9	2684.0
17.5°	3385.4	3324.5	3263.7	3223.9	3157.8	3070.4	2938.1	2832.2	2760.7	2752.8
20°	3480.7	3401.3	3388.1	3411.9	3329.8	3271.6	3110.1	2980.4	2885.1	2845.4
22.5°	3538.9	3488.6	3525.7	3546.9	3541.6	3443.6	3276.9	3126.0	3006.9	2969.8
25°	3602.5	3544.2	3676.6	3748.0	3766.6	3605.1	3475.4	3276.9	3160.4	3136.6
27.5°	3634.2	3655.4	3808.9	3959.8	3946.6	3822.2	3647.5	3470.1	3377.5	3335.1
30°	3726.9	3761.3	3994.2	4163.6	4166.3	4044.5	3912.1	3711.0	3607.8	3589.2
32.5°	3893.6	3936.0	4184.8	4364.8	4396.5	4303.9	4171.5	4047.1	3941.3	3898.9
35°	4020.7	4129.2	4409.8	4573.9	4658.6	4603.0	4528.9	4399.2	4288.0	4251.0
37.5°	4203.3	4354.2	4624.2	4846.5	4941.8	4936.5	4880.9	4740.6	4648.0	4616.2
40°	4465.4	4616.2	4862.4	5156.2	5333.5	5325.6	5293.8	5185.3	5047.7	5031.8
42.5°	4743.3	4867.7	5188.0	5524.1	5778.2	5751.8	5667.1	5540.0	5444.7	5423.5
45°	5013.3	5206.5	5502.9	5934.4	6125.0	6191.1	6090.6	5873.5	5765.0	5751.8
47.5°	5352.1	5505.6	5876.2	6262.6	6545.8	6556.4	6384.4	6183.2	5984.7	6027.0
50°	5653.8	5857.6	6233.5	6657.0	6995.8	6874.0	6654.4	6402.9	6260.0	6204.4
52.5°	5976.7	6225.6	6662.3	7093.7	7281.7	7159.9	6802.6	6522.0	6305.0	6281.1
55°	6447.9	6577.6	7149.3	7480.2	7541.1	7284.3	6757.6	6360.5	6080.0	6011.2
57.5°	6927.0	7077.9	7578.1	7864.0	7800.5	7215.5	6466.4	5852.3	5484.4	5386.5
60°	7411.4	7596.7	8017.5	8279.6	7951.3	6741.7	5643.2	4851.8	4423.0	4335.7
62.5°	7951.3	8192.2	8568.1	8660.7	7504.0	5804.7	4478.6	3501.9	3067.8	2922.2
65°	8430.4	8676.6	9139.8	8581.3	6553.8	4330.4	2895.7	2001.1	1680.8	1564.3
67.5°	8824.8	9102.8	9330.4	7594.0	4798.9	2535.7	1508.7	1053.5	934.4	892.0
70°	9137.2	9600.4	8536.3	5582.4	2742.2	1236.1	815.3	693.5	677.6	667.0
72.5°	8864.5	8803.7	6373.8	3221.3	1201.7	680.3	590.3	571.7	569.1	571.7
75°	7249.9	6466.4	3811.6	1400.2	603.5	492.3	489.7	481.7	495.0	495.0
77.5°	3517.8	3075.7	1593.4	600.9	397.0	386.5	399.7	399.7	399.7	399.7
80°	815.3	902.6	569.1	365.3	288.5	288.5	317.6	320.3	307.0	301.7
82.5°	277.9	370.6	312.3	230.3	190.6	214.4	240.9	246.2	203.8	206.5
85°	137.6	217.0	169.4	132.3	97.9	132.3	156.2	164.1	140.3	135.0
87.5°	63.5	95.3	63.5	45.0	34.4	47.6	45.0	37.1	21.2	21.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)