

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: P481146

Luminaire Tested: **IFLD-L-SA7B-722-U-RW**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481146
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7B-722-U-RW
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ RW distribution lens
Light Source: (112) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

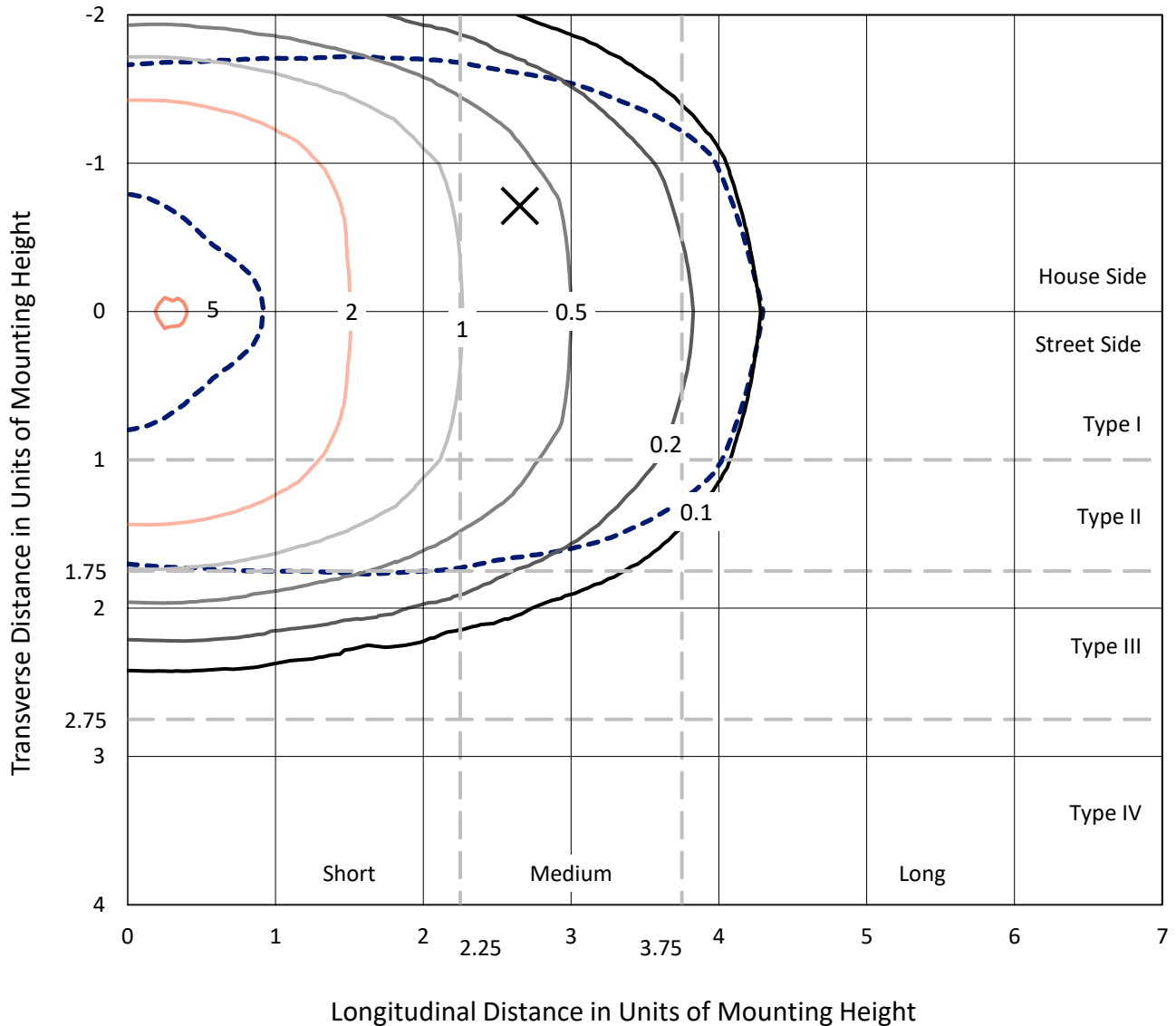
Lumens per Lamp: N/A
Luminaire Lumens: 27019.5 lumens
Efficiency: N/A
Efficacy: 96.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

Input Watts (W): 281
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

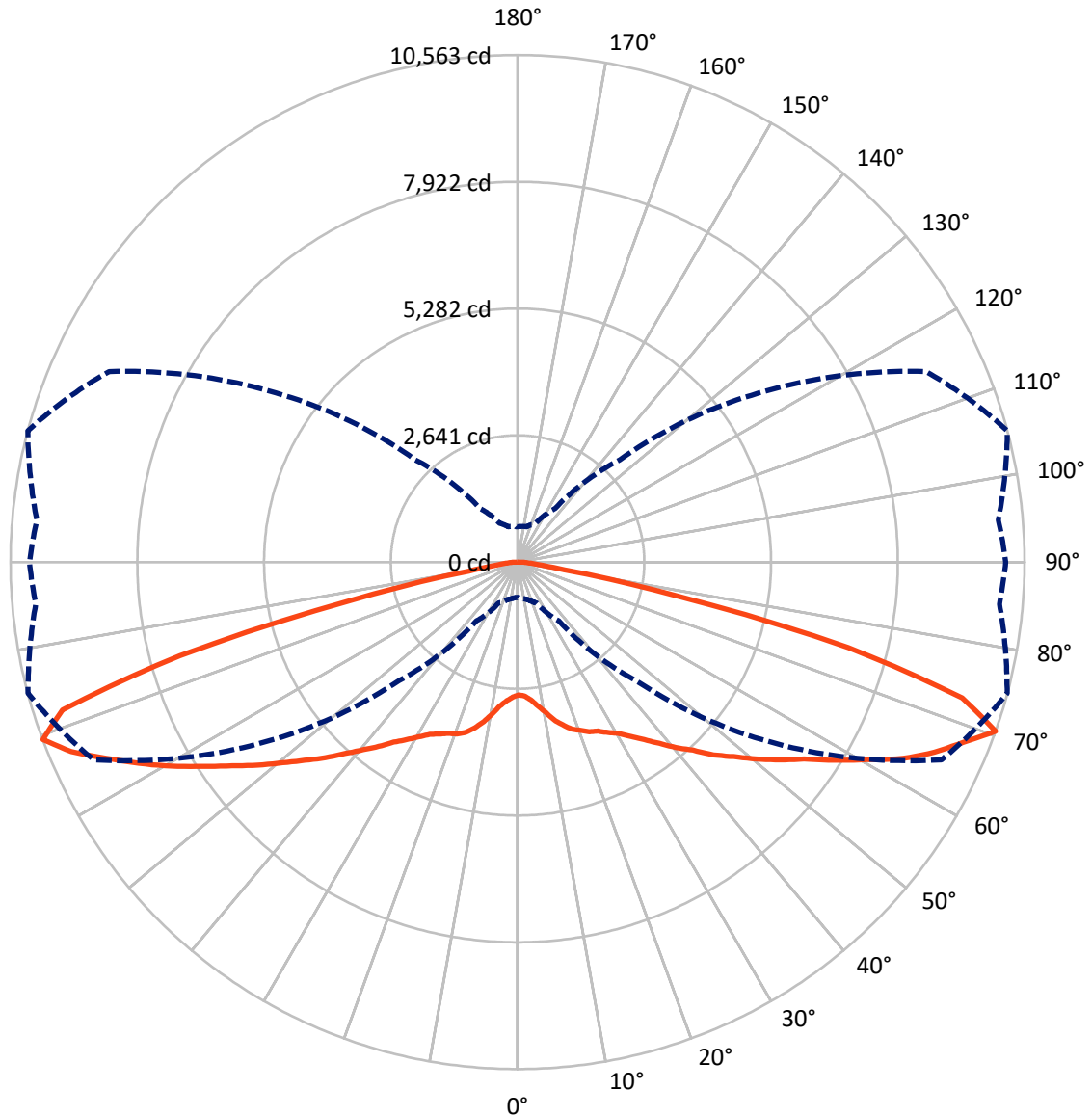
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 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	13413.7	0.0	13413.7
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	13605.9	0.0	13605.9
	% Fixture	50.4	0.0	50.4
Total	Lumens	27019.5	0.0	27019.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	275.4	1.0
10°-20°	937.7	3.5
20°-30°	1815.6	6.7
30°-40°	3071.0	11.4
40°-50°	4899.2	18.1
50°-60°	6705.9	24.8
60°-70°	6320.8	23.4
70°-80°	2784.5	10.3
80°-90°	209.5	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°	27019.5	100.0
0°-180°	27019.5	100.0

Coefficient of Utilization



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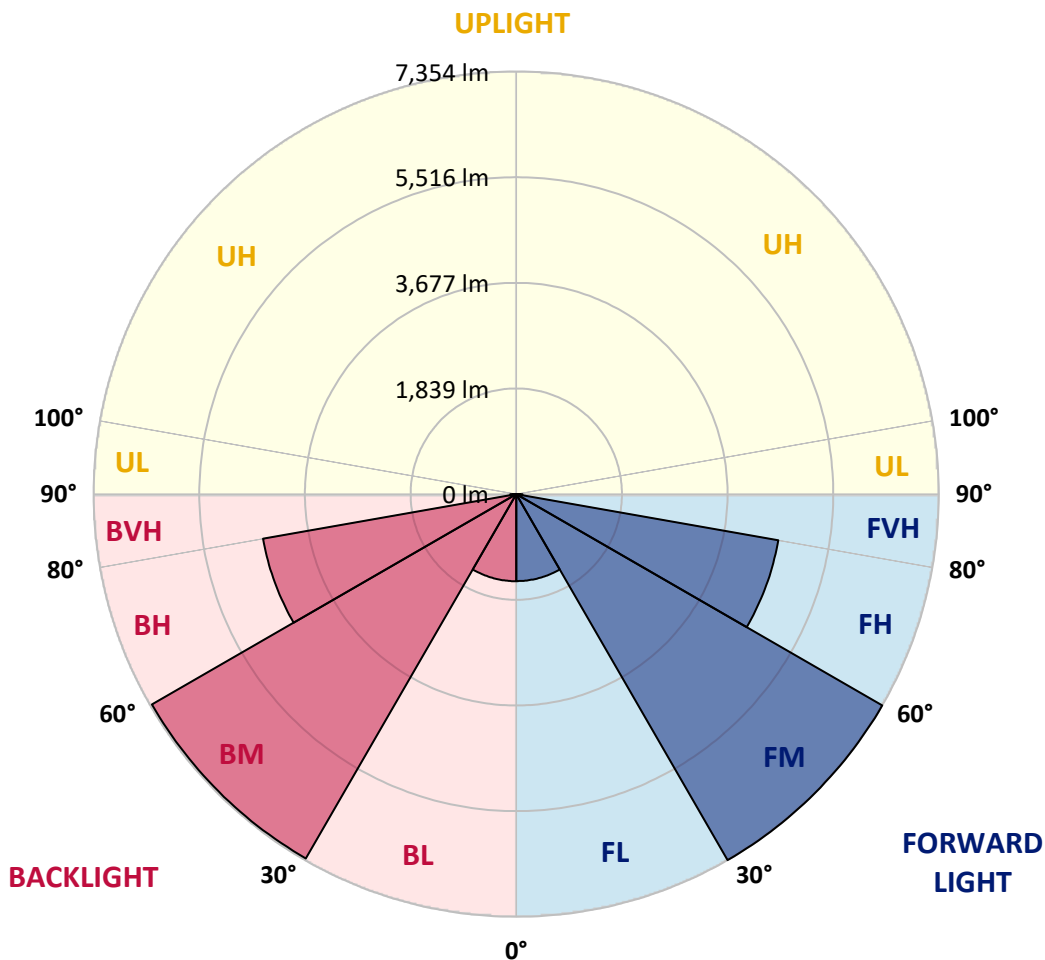
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1513.5	5.6			
FM (30°-60°)	7354.5	27.2			
FH (60°-80°)	4630.9	17.1			G2/5000
FVH (80°-90°)	107.0	0.4			G2/225
BL (0°-30°)	1515.2	5.6	B3/2500		
BM (30°-60°)	7321.6	27.1	B4/8500		
BH (60°-80°)	4474.4	16.6	B4/5000		G4/5000
BVH (80°-90°)	102.5	0.4			G2/225
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°	2766.8	2766.8	2766.8	2766.8	2766.8	2766.8	2766.8	2766.8	2766.8	2766.8	2766.8
2.5°	2749.3	2749.3	2746.4	2760.9	2775.5	2781.3	2793.0	2795.9	2813.4	2798.8	2827.9
5°	2740.6	2737.6	2760.9	2795.9	2795.9	2833.8	2857.1	2889.1	2897.8	2915.3	2921.1
7.5°	2801.7	2795.9	2784.2	2822.1	2854.1	2912.4	2944.4	2999.8	3020.2	3043.5	3069.7
10°	2839.6	2839.6	2827.9	2894.9	2924.0	3002.7	3072.6	3127.9	3206.5	3232.8	3235.7
12.5°	2845.4	2854.1	2889.1	2976.5	3058.0	3159.9	3212.4	3317.2	3395.9	3445.4	3462.8
15°	2932.8	2915.3	2953.2	3072.6	3192.0	3282.3	3375.5	3451.2	3564.8	3628.8	3669.6
17.5°	3011.4	2993.9	3063.8	3206.5	3328.9	3468.7	3550.2	3631.8	3713.3	3771.5	3774.5
20°	3136.6	3151.2	3212.4	3366.7	3526.9	3649.2	3742.4	3757.0	3797.8	3882.2	3867.7
22.5°	3291.0	3279.4	3407.5	3576.4	3751.2	3853.1	3905.5	3867.7	3847.3	3937.6	3957.9
25°	3445.4	3480.3	3596.8	3754.1	3963.8	4100.6	4115.2	4010.4	3934.6	3966.7	3957.9
27.5°	3681.3	3687.1	3809.4	3995.8	4208.4	4327.8	4319.1	4170.5	4024.9	4027.8	4033.7
30°	3984.2	3955.0	4089.0	4257.9	4467.6	4575.4	4589.9	4377.3	4182.2	4123.9	4138.5
32.5°	4275.4	4310.3	4426.8	4619.1	4773.4	4834.6	4802.5	4613.2	4359.9	4281.2	4290.0
35°	4648.2	4642.4	4802.5	4965.6	5082.1	5093.8	5067.6	4790.9	4552.1	4450.1	4409.4
37.5°	5047.2	5099.6	5204.4	5338.4	5460.7	5466.6	5323.9	5102.5	4808.4	4639.4	4689.0
40°	5492.8	5551.0	5626.7	5821.9	5912.2	5819.0	5673.3	5373.4	5067.6	4919.0	4942.3
42.5°	5885.9	5912.2	6066.5	6296.6	6340.3	6299.5	6084.0	5719.9	5364.6	5201.5	5213.2
45°	6247.1	6282.0	6483.0	6689.8	6791.7	6721.8	6471.3	6124.8	5711.2	5571.4	5516.1
47.5°	6579.1	6649.0	6844.1	7056.7	7214.0	7219.8	6911.1	6491.7	6054.9	5871.4	5868.5
50°	6803.3	6905.3	7097.5	7339.2	7569.3	7659.6	7350.9	6899.5	6430.6	6235.4	6215.0
52.5°	6925.7	7030.5	7222.7	7598.4	7854.7	7994.5	7848.9	7281.0	6870.3	6666.5	6634.4
55°	6777.1	6847.0	7161.6	7688.7	8084.8	8314.9	8218.8	7808.1	7307.2	7141.2	7170.3
57.5°	6145.1	6290.8	6678.1	7336.3	8079.0	8644.0	8635.2	8306.1	7811.0	7653.8	7659.6
60°	5058.8	5181.1	5658.8	6579.1	7752.8	8778.0	9086.7	8789.6	8376.0	8192.6	8186.7
62.5°	3570.6	3725.0	4278.3	5283.1	6791.7	8591.6	9605.1	9398.3	8929.4	8795.4	8844.9
65°	1997.9	2091.1	2603.7	3512.3	5175.3	7566.4	9698.3	10030.3	9491.5	9287.6	9296.4
67.5°	1068.8	1103.8	1342.6	1843.5	3165.8	5833.5	8757.6	10394.3	10100.2	9747.8	9692.4
70°	733.9	745.6	806.7	943.6	1497.0	3489.0	6605.3	9744.9	10557.4	10076.9	10170.1
72.5°	620.3	614.5	629.1	643.6	783.4	1561.0	3876.4	7499.4	9966.2	9785.6	9750.7
75°	538.8	535.9	541.7	527.1	544.6	687.3	1715.4	4674.4	7295.5	8143.1	8274.1
77.5°	445.6	448.5	451.4	436.9	431.0	454.3	690.2	2053.2	3591.0	3963.8	4275.4
80°	337.8	343.7	367.0	352.4	329.1	332.0	407.7	687.3	1031.0	934.9	964.0
82.5°	230.1	233.0	282.5	265.0	247.6	224.3	262.1	355.3	401.9	305.8	267.9
85°	163.1	160.2	183.5	168.9	157.3	113.6	157.3	201.0	241.7	151.4	136.9
87.5°	37.9	37.9	75.7	61.2	58.2	46.6	61.2	78.6	104.8	67.0	61.2
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°	2766.8	2766.8	2766.8	2766.8	2766.8	2766.8	2766.8	2766.8	2766.8	2766.8
2.5°	2819.2	2793.0	2793.0	2787.2	2763.9	2758.0	2737.6	2743.5	2728.9	2714.4
5°	2918.2	2883.3	2883.3	2833.8	2787.2	2781.3	2758.0	2758.0	2734.7	2740.6
7.5°	3055.1	3023.1	2970.6	2927.0	2862.9	2836.7	2793.0	2787.2	2781.3	2769.7
10°	3218.2	3177.4	3125.0	3034.7	2982.3	2932.8	2889.1	2827.9	2813.4	2816.3
12.5°	3439.5	3375.5	3261.9	3183.2	3116.3	3052.2	2988.1	2897.8	2877.4	2886.2
15°	3596.8	3515.3	3401.7	3372.6	3282.3	3203.6	3098.8	2996.9	2961.9	2953.2
17.5°	3725.0	3658.0	3591.0	3547.3	3474.5	3378.4	3232.8	3116.3	3037.6	3028.9
20°	3829.8	3742.4	3727.9	3754.1	3663.8	3599.7	3422.1	3279.4	3174.5	3130.8
22.5°	3893.9	3838.5	3879.3	3902.6	3896.8	3789.0	3605.5	3439.5	3308.5	3267.7
25°	3963.8	3899.7	4045.3	4123.9	4144.3	3966.7	3824.0	3605.5	3477.4	3451.2
27.5°	3998.7	4022.0	4190.9	4356.9	4342.4	4205.5	4013.3	3818.1	3716.2	3669.6
30°	4100.6	4138.5	4394.8	4581.2	4584.1	4450.1	4304.5	4083.2	3969.6	3949.2
32.5°	4284.1	4330.7	4604.5	4802.5	4837.5	4735.6	4589.9	4453.0	4336.6	4290.0
35°	4423.9	4543.3	4852.0	5032.6	5125.8	5064.7	4983.1	4840.4	4718.1	4677.3
37.5°	4624.9	4790.9	5088.0	5332.6	5437.4	5431.6	5370.5	5216.1	5114.2	5079.2
40°	4913.2	5079.2	5350.1	5673.3	5868.5	5859.7	5824.8	5705.4	5553.9	5536.5
42.5°	5219.0	5355.9	5708.3	6078.2	6357.8	6328.6	6235.4	6095.6	5990.8	5967.5
45°	5516.1	5728.7	6054.9	6529.6	6739.3	6812.1	6701.4	6462.6	6343.2	6328.6
47.5°	5888.9	6057.8	6465.5	6890.7	7202.3	7214.0	7024.7	6803.3	6584.9	6631.5
50°	6220.9	6445.1	6858.7	7324.7	7697.5	7563.5	7321.8	7045.1	6887.8	6826.6
52.5°	6576.2	6849.9	7330.5	7805.2	8012.0	7878.0	7484.8	7176.1	6937.3	6911.1
55°	7094.6	7237.3	7866.4	8230.4	8297.4	8014.9	7435.3	6998.5	6689.8	6614.0
57.5°	7621.7	7787.7	8338.2	8652.7	8582.8	7939.2	7115.0	6439.3	6034.5	5926.7
60°	8154.7	8358.6	8821.6	9110.0	8748.8	7417.9	6209.2	5338.4	4866.6	4770.5
62.5°	8748.8	9013.9	9427.4	9529.3	8256.6	6386.9	4927.8	3853.1	3375.5	3215.3
65°	9276.0	9546.8	10056.5	9442.0	7211.1	4764.7	3186.2	2201.8	1849.4	1721.2
67.5°	9709.9	10015.7	10266.2	8355.7	5280.2	2790.1	1660.1	1159.1	1028.1	981.5
70°	10053.6	10563.2	9392.5	6142.2	3017.2	1360.1	897.0	763.0	745.6	733.9
72.5°	9753.6	9686.6	7013.0	3544.4	1322.2	748.5	649.5	629.1	626.2	629.1
75°	7977.0	7115.0	4193.8	1540.7	664.0	541.7	538.8	530.1	544.6	544.6
77.5°	3870.6	3384.2	1753.3	661.1	436.9	425.2	439.8	439.8	439.8	439.8
80°	897.0	993.1	626.2	401.9	317.5	317.5	349.5	352.4	337.8	332.0
82.5°	305.8	407.7	343.7	253.4	209.7	235.9	265.0	270.9	224.3	227.2
85°	151.4	238.8	186.4	145.6	107.8	145.6	171.8	180.6	154.4	148.5
87.5°	69.9	104.8	69.9	49.5	37.9	52.4	49.5	40.8	23.3	23.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)