

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: P481280

Luminaire Tested: **IFLD-S-SA3E-740-U-RW**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481280
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3E-740-U-RW
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ RW distribution lens
Light Source: (48) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

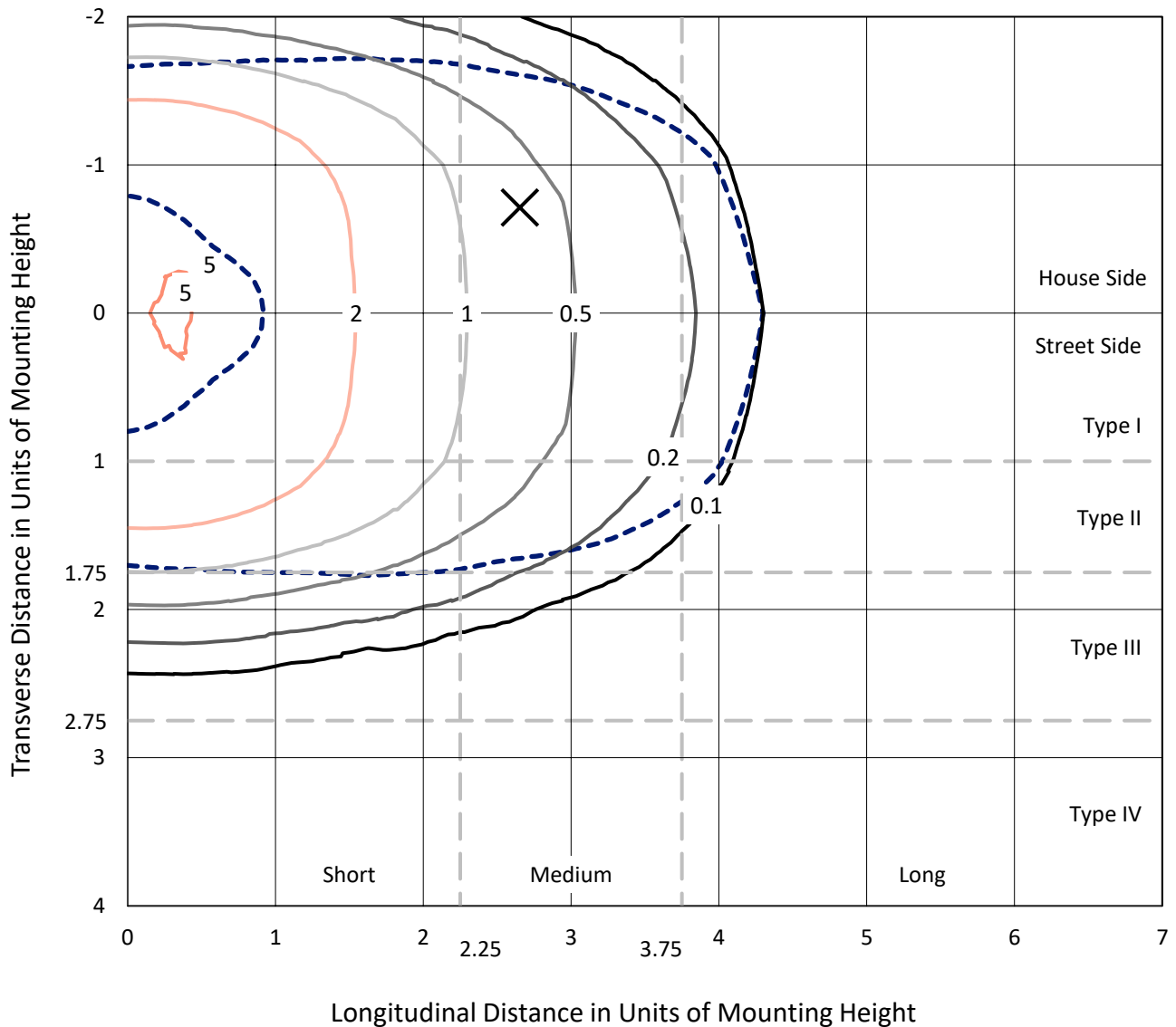
Lumens per Lamp: N/A
Luminaire Lumens: 27783.3 lumens
Efficiency: N/A
Efficacy: 119.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

Input Watts (W): 232.1
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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 CATALOG NUMBER: IFLD-S-SA3E-740-U-RW

Iso-Footcandle Lines of Horizontal Illumination

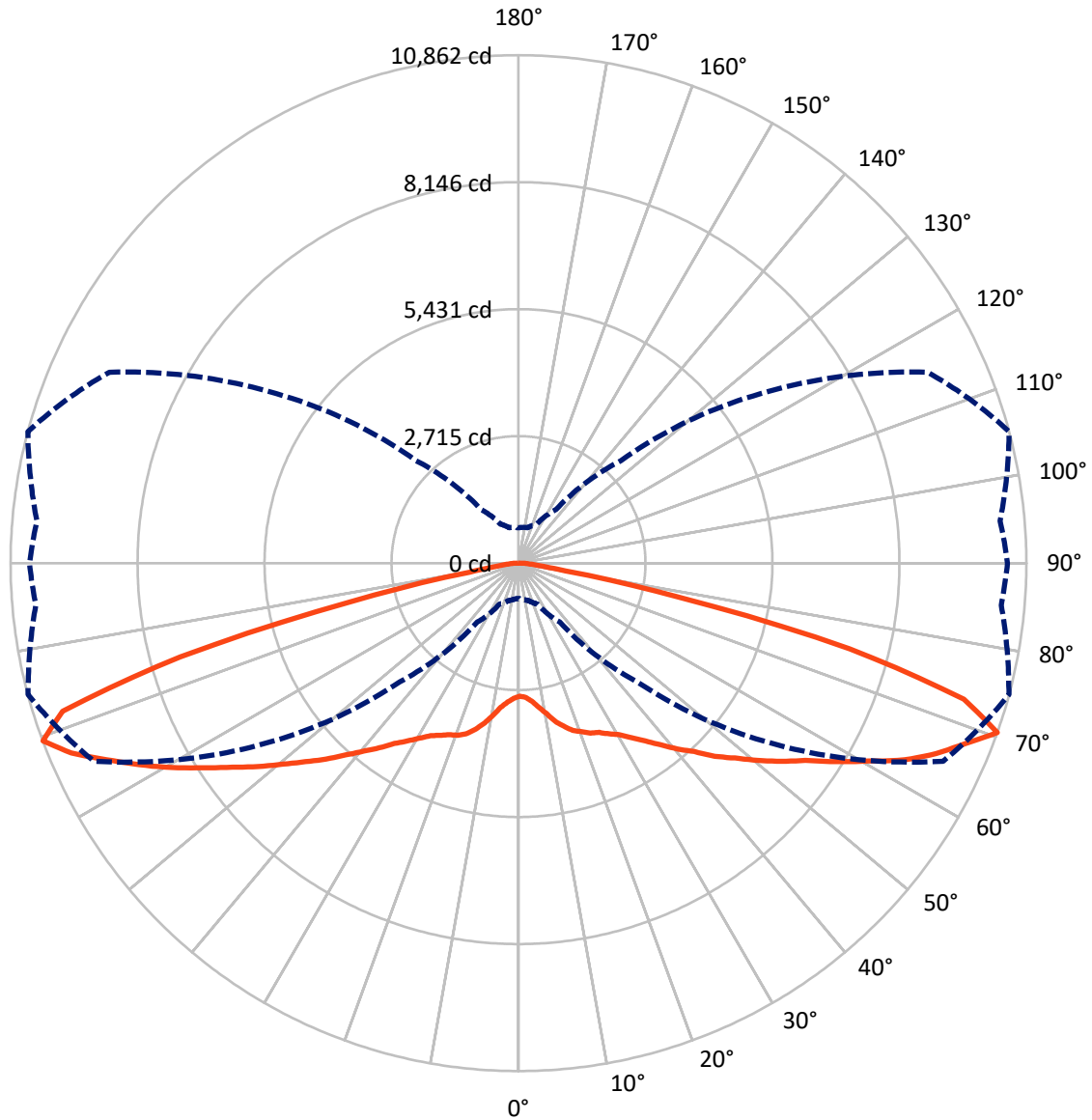
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 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	13792.8	0.0	13792.8
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	13990.5	0.0	13990.5
	% Fixture	50.4	0.0	50.4
Total	Lumens	27783.3	0.0	27783.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	283.2	1.0
10°-20°	964.2	3.5
20°-30°	1867.0	6.7
30°-40°	3157.8	11.4
40°-50°	5037.7	18.1
50°-60°	6895.5	24.8
60°-70°	6499.4	23.4
70°-80°	2863.2	10.3
80°-90°	215.4	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°	27783.3	100.0
0°-180°	27783.3	100.0

Coefficient of Utilization

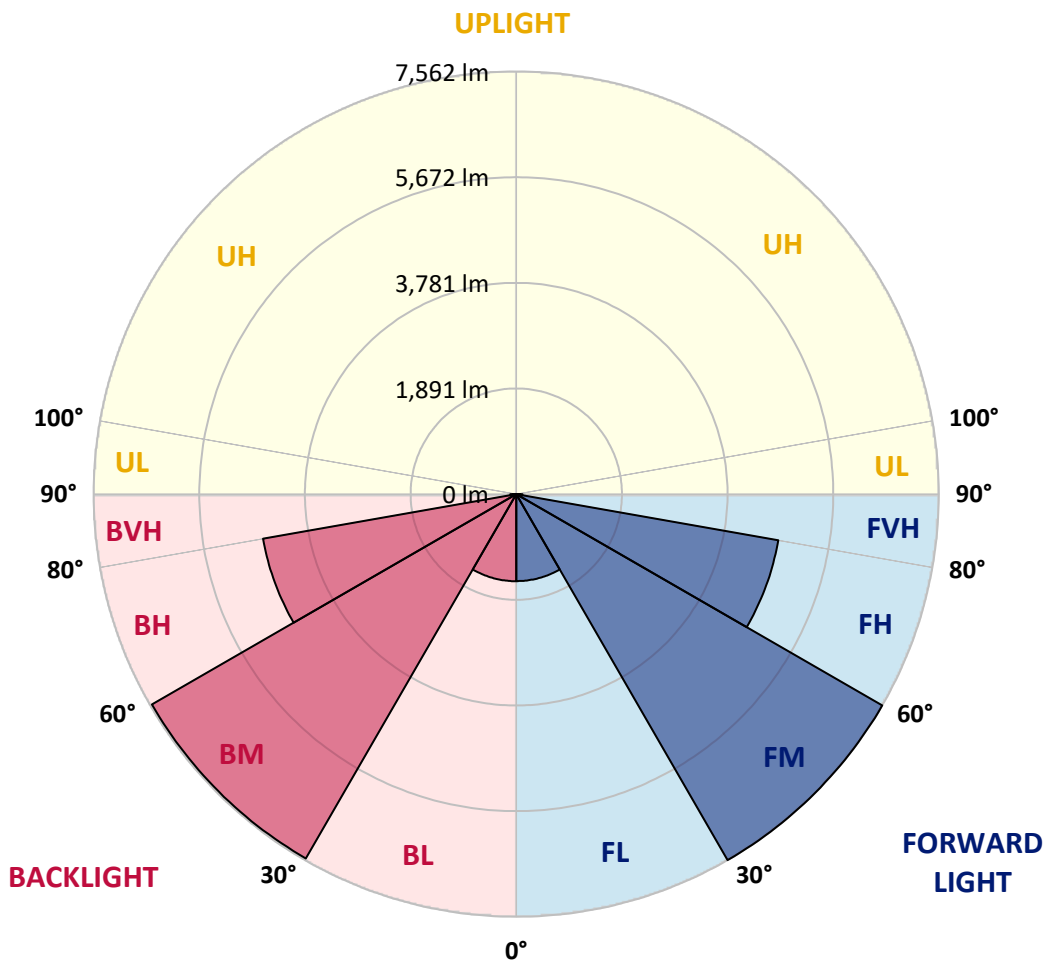


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1556.3	5.6			
FM (30°-60°)	7562.4	27.2			
FH (60°-80°)	4761.8	17.1			G2/5000
FVH (80°-90°)	110.0	0.4			G2/225
BL (0°-30°)	1558.0	5.6	B3/2500		
BM (30°-60°)	7528.6	27.1	B4/8500		
BH (60°-80°)	4600.9	16.6	B4/5000		G4/5000
BVH (80°-90°)	105.4	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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CATALOG NUMBER: IFLD-S-SA3E-740-U-RW

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2845.0	2845.0	2845.0	2845.0	2845.0	2845.0	2845.0	2845.0	2845.0	2845.0	2845.0
2.5°	2827.0	2827.0	2824.0	2839.0	2854.0	2860.0	2871.9	2874.9	2892.9	2877.9	2907.9
5°	2818.0	2815.0	2839.0	2874.9	2874.9	2913.9	2937.8	2970.8	2979.7	2997.7	3003.7
7.5°	2880.9	2874.9	2862.9	2901.9	2934.8	2994.7	3027.7	3084.6	3105.5	3129.5	3156.4
10°	2919.8	2919.8	2907.9	2976.7	3006.7	3087.6	3159.4	3216.3	3297.2	3324.1	3327.1
12.5°	2925.8	2934.8	2970.8	3060.6	3144.5	3249.3	3303.2	3411.0	3491.8	3542.7	3560.7
15°	3015.7	2997.7	3036.6	3159.4	3282.2	3375.0	3470.9	3548.7	3665.5	3731.4	3773.3
17.5°	3096.5	3078.6	3150.4	3297.2	3423.0	3566.7	3650.6	3734.4	3818.3	3878.2	3881.2
20°	3225.3	3240.3	3303.2	3461.9	3626.6	3752.4	3848.2	3863.2	3905.1	3992.0	3977.0
22.5°	3384.0	3372.1	3503.8	3677.5	3857.2	3962.0	4015.9	3977.0	3956.0	4048.9	4069.8
25°	3542.7	3578.7	3698.5	3860.2	4075.8	4216.6	4231.5	4123.7	4045.9	4078.8	4069.8
27.5°	3785.3	3791.3	3917.1	4108.8	4327.4	4450.1	4441.2	4288.4	4138.7	4141.7	4147.7
30°	4096.8	4066.8	4204.6	4378.3	4593.9	4704.7	4719.7	4501.1	4300.4	4240.5	4255.5
32.5°	4396.2	4432.2	4552.0	4749.6	4908.3	4971.2	4938.3	4743.6	4483.1	4402.2	4411.2
35°	4779.6	4773.6	4938.3	5106.0	5225.8	5237.8	5210.8	4926.3	4680.7	4575.9	4534.0
37.5°	5189.8	5243.7	5351.6	5489.3	5615.1	5621.1	5474.3	5246.7	4944.3	4770.6	4821.5
40°	5648.0	5707.9	5785.8	5986.4	6079.3	5983.4	5833.7	5525.3	5210.8	5058.1	5082.0
42.5°	6052.3	6079.3	6238.0	6474.6	6519.5	6477.6	6256.0	5881.6	5516.3	5348.6	5360.5
45°	6423.7	6459.6	6666.2	6878.9	6983.7	6911.8	6654.3	6297.9	5872.6	5728.9	5672.0
47.5°	6765.1	6836.9	7037.6	7256.2	7417.9	7423.9	7106.5	6675.2	6226.0	6037.3	6034.4
50°	6995.7	7100.5	7298.1	7546.7	7783.3	7876.1	7558.7	7094.5	6612.3	6411.7	6390.7
52.5°	7121.4	7229.2	7426.9	7813.2	8076.8	8220.5	8070.8	7486.8	7064.5	6854.9	6822.0
55°	6968.7	7040.6	7364.0	7906.1	8313.3	8549.9	8451.1	8028.8	7513.7	7343.0	7373.0
57.5°	6318.9	6468.6	6866.9	7543.7	8307.3	8888.3	8879.3	8540.9	8031.8	7870.1	7876.1
60°	5201.8	5327.6	5818.7	6765.1	7971.9	9026.1	9343.5	9038.1	8612.8	8424.1	8418.1
62.5°	3671.5	3830.2	4399.2	5432.4	6983.7	8834.4	9876.6	9664.0	9181.8	9044.0	9095.0
65°	2054.4	2150.2	2677.3	3611.6	5321.6	7780.3	9972.4	10313.8	9759.8	9550.2	9559.1
67.5°	1099.1	1135.0	1380.6	1895.7	3255.3	5998.4	9005.1	10688.1	10385.7	10023.3	9966.4
70°	754.7	766.6	829.5	970.3	1539.3	3587.7	6792.0	10020.3	10855.8	10361.7	10457.6
72.5°	637.9	631.9	646.9	661.8	805.6	1605.2	3986.0	7711.4	10247.9	10062.2	10026.3
75°	554.0	551.0	557.0	542.0	560.0	706.8	1763.9	4806.5	7501.8	8373.2	8508.0
77.5°	458.2	461.2	464.2	449.2	443.2	467.2	709.7	2111.3	3692.5	4075.8	4396.2
80°	347.4	353.4	377.3	362.4	338.4	341.4	419.3	706.8	1060.1	961.3	991.3
82.5°	236.6	239.6	290.5	272.5	254.6	230.6	269.5	365.4	413.3	314.4	275.5
85°	167.7	164.7	188.7	173.7	161.7	116.8	161.7	206.6	248.6	155.7	140.8
87.5°	38.9	38.9	77.9	62.9	59.9	47.9	62.9	80.9	107.8	68.9	62.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P481280

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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2845.0	2845.0	2845.0	2845.0	2845.0	2845.0	2845.0	2845.0	2845.0	2845.0
2.5°	2898.9	2871.9	2871.9	2865.9	2842.0	2836.0	2815.0	2821.0	2806.0	2791.1
5°	3000.7	2964.8	2964.8	2913.9	2865.9	2860.0	2836.0	2836.0	2812.0	2818.0
7.5°	3141.5	3108.5	3054.6	3009.7	2943.8	2916.9	2871.9	2865.9	2860.0	2848.0
10°	3309.2	3267.2	3213.3	3120.5	3066.6	3015.7	2970.8	2907.9	2892.9	2895.9
12.5°	3536.8	3470.9	3354.1	3273.2	3204.3	3138.5	3072.6	2979.7	2958.8	2967.8
15°	3698.5	3614.6	3497.8	3467.9	3375.0	3294.2	3186.4	3081.6	3045.6	3036.6
17.5°	3830.2	3761.4	3692.5	3647.6	3572.7	3473.9	3324.1	3204.3	3123.5	3114.5
20°	3938.1	3848.2	3833.2	3860.2	3767.4	3701.5	3518.8	3372.1	3264.2	3219.3
22.5°	4003.9	3947.0	3989.0	4012.9	4006.9	3896.1	3707.5	3536.8	3402.0	3360.1
25°	4075.8	4009.9	4159.7	4240.5	4261.5	4078.8	3932.1	3707.5	3575.7	3548.7
27.5°	4111.7	4135.7	4309.4	4480.1	4465.1	4324.4	4126.7	3926.1	3821.3	3773.3
30°	4216.6	4255.5	4519.0	4710.7	4713.7	4575.9	4426.2	4198.6	4081.8	4060.8
32.5°	4405.2	4453.1	4734.6	4938.3	4974.2	4869.4	4719.7	4578.9	4459.1	4411.2
35°	4549.0	4671.8	4989.2	5174.9	5270.7	5207.8	5124.0	4977.2	4851.4	4809.5
37.5°	4755.6	4926.3	5231.8	5483.3	5591.1	5585.1	5522.3	5363.5	5258.7	5222.8
40°	5052.1	5222.8	5501.3	5833.7	6034.4	6025.4	5989.4	5866.7	5710.9	5693.0
42.5°	5366.5	5507.3	5869.6	6250.0	6537.5	6507.5	6411.7	6267.9	6160.1	6136.2
45°	5672.0	5890.6	6226.0	6714.2	6929.8	7004.6	6890.8	6645.3	6522.5	6507.5
47.5°	6055.3	6229.0	6648.3	7085.5	7405.9	7417.9	7223.3	6995.7	6771.1	6819.0
50°	6396.7	6627.3	7052.6	7531.7	7915.0	7777.3	7528.7	7244.2	7082.5	7019.6
52.5°	6762.1	7043.6	7537.7	8025.8	8238.5	8100.7	7696.4	7379.0	7133.4	7106.5
55°	7295.1	7441.9	8088.7	8463.1	8531.9	8241.5	7645.5	7196.3	6878.9	6801.0
57.5°	7837.2	8007.9	8573.9	8897.3	8825.4	8163.6	7316.1	6621.3	6205.1	6094.2
60°	8385.2	8594.8	9071.0	9367.5	8996.1	7627.5	6384.7	5489.3	5004.2	4905.3
62.5°	8996.1	9268.6	9693.9	9798.7	8490.0	6567.4	5067.1	3962.0	3470.9	3306.2
65°	9538.2	9816.7	10340.8	9708.9	7414.9	4899.4	3276.2	2264.0	1901.6	1769.9
67.5°	9984.4	10298.8	10556.4	8591.8	5429.4	2868.9	1707.0	1191.9	1057.1	1009.2
70°	10337.8	10861.8	9658.0	6315.9	3102.5	1398.5	922.4	784.6	766.6	754.7
72.5°	10029.3	9960.4	7211.3	3644.6	1359.6	769.6	667.8	646.9	643.9	646.9
75°	8202.5	7316.1	4312.4	1584.2	682.8	557.0	554.0	545.0	560.0	560.0
77.5°	3980.0	3479.9	1802.8	679.8	449.2	437.2	452.2	452.2	452.2	452.2
80°	922.4	1021.2	643.9	413.3	326.4	326.4	359.4	362.4	347.4	341.4
82.5°	314.4	419.3	353.4	260.5	215.6	242.6	272.5	278.5	230.6	233.6
85°	155.7	245.6	191.7	149.7	110.8	149.7	176.7	185.7	158.7	152.7
87.5°	71.9	107.8	71.9	50.9	38.9	53.9	50.9	41.9	24.0	24.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)