

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: P481185

Luminaire Tested: **IFLD-L-SA7B-727-U-RW**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P481185  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7B-727-U-RW  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ RW distribution lens  
Light Source: (112) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 30676.7 lumens  
Efficiency: N/A  
Efficacy: 109.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B5 - U0 - G5

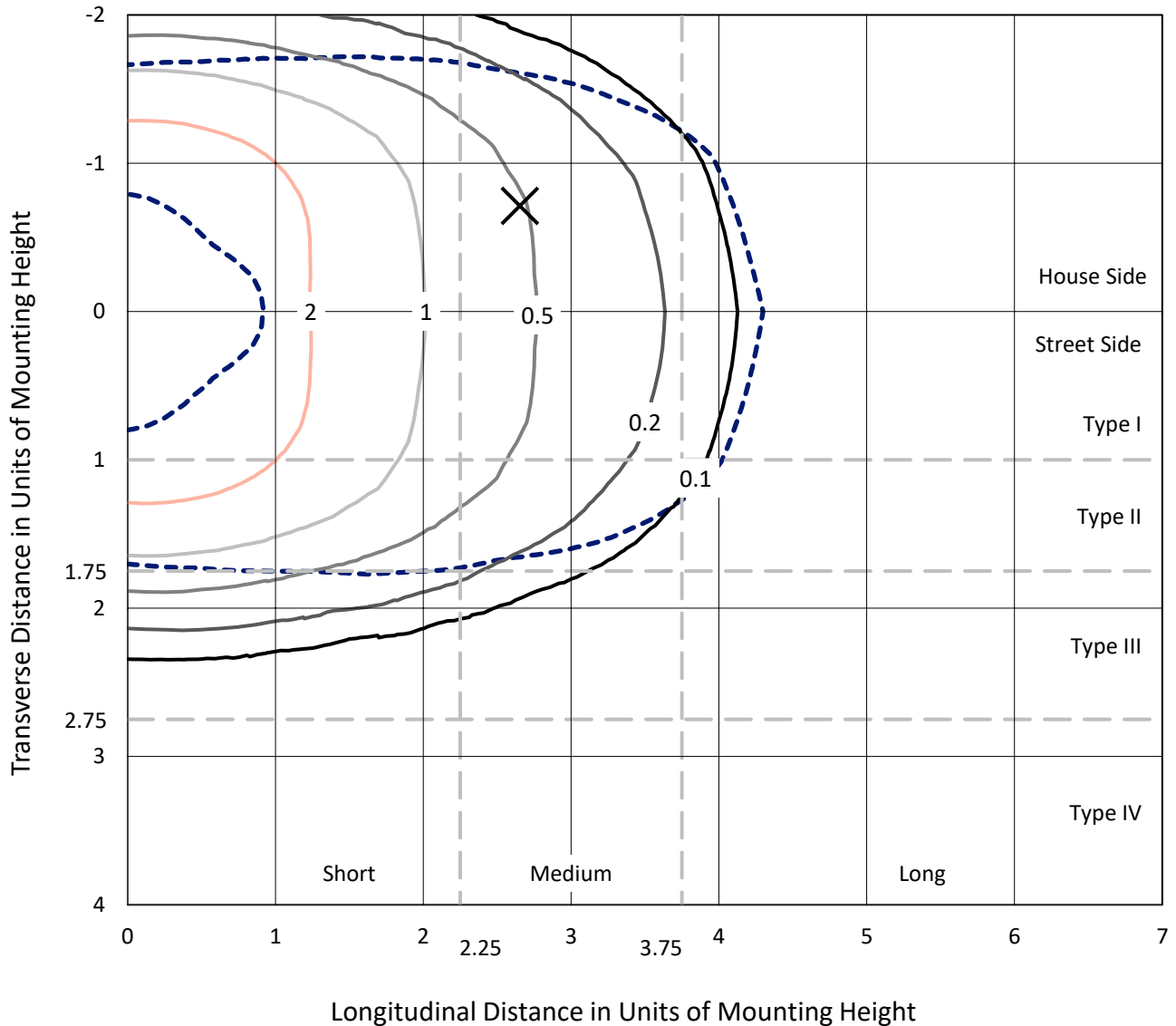
Input Watts (W): 281  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

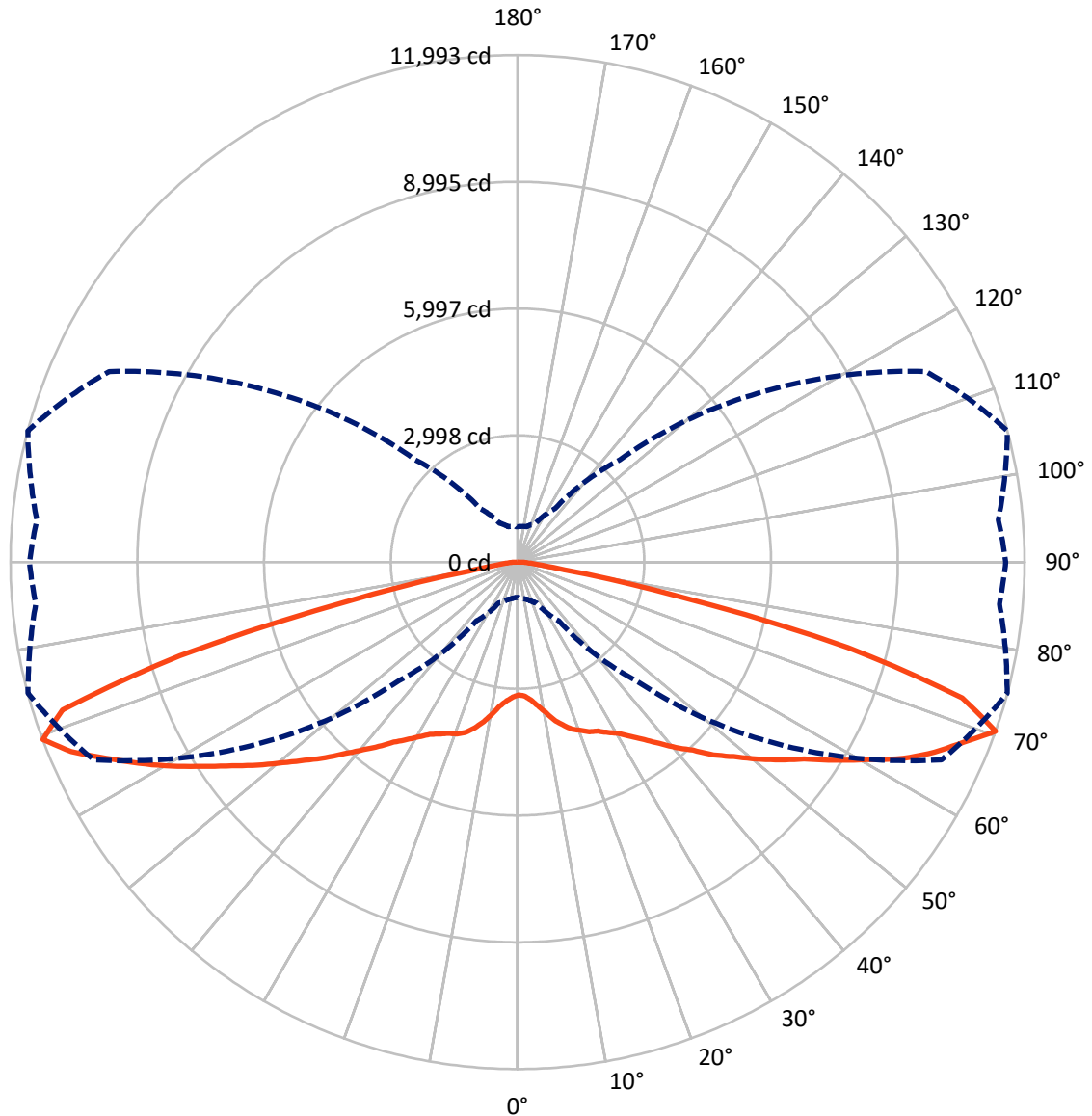
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.1 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	15229.2	0.0	15229.2
	% Fixture	49.6	0.0	49.6
<b>Street Side</b>	Lumens	15447.5	0.0	15447.5
	% Fixture	50.4	0.0	50.4
<b>Total</b>	Lumens	30676.7	0.0	30676.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	312.7	1.0
10°-20°	1064.6	3.5
20°-30°	2061.4	6.7
30°-40°	3486.7	11.4
40°-50°	5562.3	18.1
50°-60°	7613.6	24.8
60°-70°	7176.3	23.4
70°-80°	3161.4	10.3
80°-90°	237.9	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°	30676.7	100.0
0°-180°	30676.7	100.0

**Coefficient of Utilization**



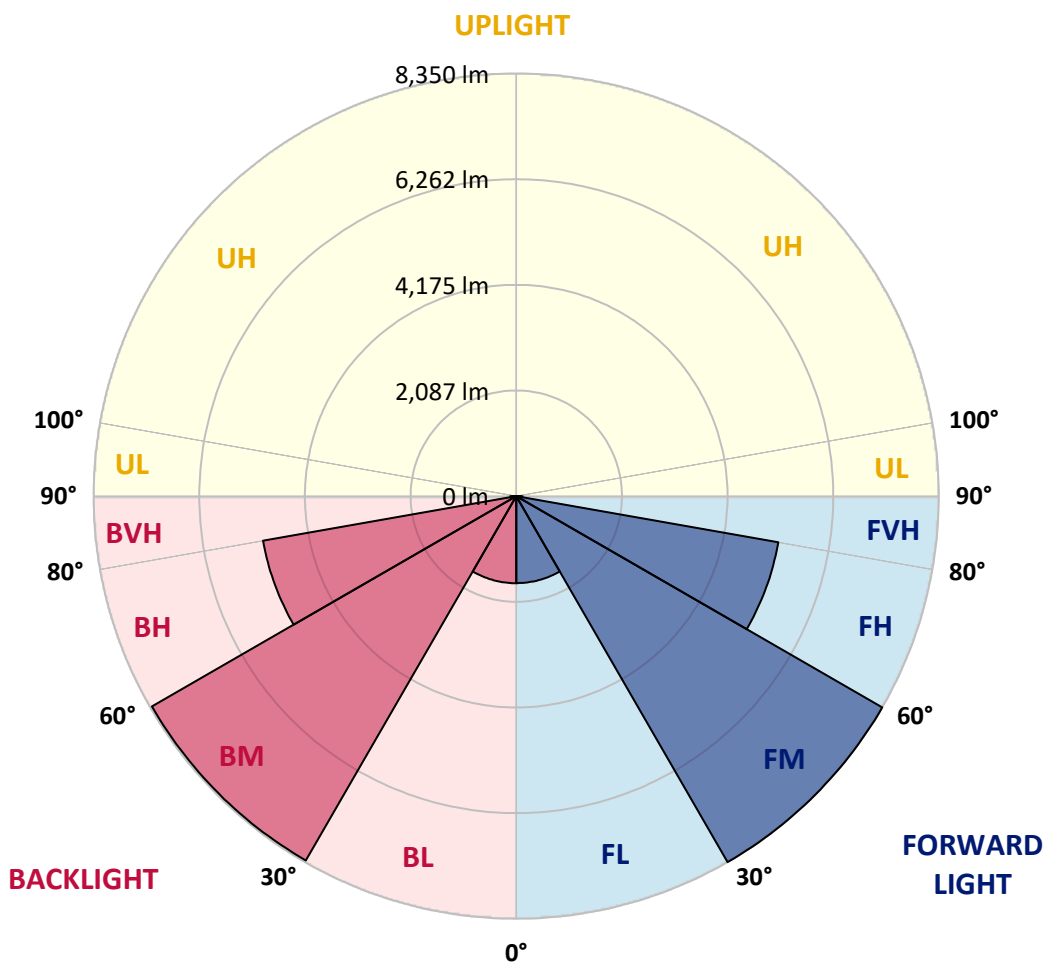
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1718.4	5.6			
FM (30°-60°)	8349.9	27.2			
FH (60°-80°)	5257.6	17.1			G3/7500
FVH (80°-90°)	121.5	0.4			G2/225
BL (0°-30°)	1720.3	5.6	B3/2500		
BM (30°-60°)	8312.6	27.1	B4/8500		
BH (60°-80°)	5080.0	16.6	B5		G5
BVH (80°-90°)	116.4	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G5**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3141.3	3141.3	3141.3	3141.3	3141.3	3141.3	3141.3	3141.3	3141.3	3141.3	3141.3
2.5°	3121.4	3121.4	3118.1	3134.6	3151.2	3157.8	3171.0	3174.3	3194.2	3177.6	3210.7
5°	3111.5	3108.2	3134.6	3174.3	3174.3	3217.3	3243.8	3280.1	3290.1	3309.9	3316.5
7.5°	3180.9	3174.3	3161.1	3204.1	3240.5	3306.6	3343.0	3405.8	3428.9	3455.4	3485.1
10°	3223.9	3223.9	3210.7	3286.8	3319.8	3409.1	3488.5	3551.3	3640.6	3670.3	3673.6
12.5°	3230.5	3240.5	3280.1	3379.3	3471.9	3587.7	3647.2	3766.2	3855.5	3911.7	3931.5
15°	3329.7	3309.9	3352.9	3488.5	3624.0	3726.5	3832.3	3918.3	4047.3	4120.0	4166.3
17.5°	3419.0	3399.2	3478.5	3640.6	3779.4	3938.1	4030.7	4123.3	4215.9	4282.0	4285.3
20°	3561.2	3577.7	3647.2	3822.4	4004.3	4143.2	4249.0	4265.5	4311.8	4407.7	4391.2
22.5°	3736.4	3723.2	3868.7	4060.5	4258.9	4374.6	4434.1	4391.2	4368.0	4470.5	4493.7
25°	3911.7	3951.4	4083.6	4262.2	4500.3	4655.7	4672.2	4553.2	4467.2	4503.6	4493.7
27.5°	4179.5	4186.1	4325.0	4536.6	4778.0	4913.6	4903.7	4735.0	4569.7	4573.0	4579.6
30°	4523.4	4490.3	4642.5	4834.2	5072.3	5194.7	5211.2	4969.8	4748.3	4682.1	4698.7
32.5°	4854.1	4893.8	5026.0	5244.3	5419.5	5488.9	5452.6	5237.6	4950.0	4860.7	4870.6
35°	5277.3	5270.7	5452.6	5637.7	5770.0	5783.2	5753.5	5439.3	5168.2	5052.5	5006.2
37.5°	5730.3	5789.8	5908.9	6061.0	6199.9	6206.5	6044.4	5793.1	5459.2	5267.4	5323.6
40°	6236.2	6302.4	6388.3	6609.9	6712.4	6606.6	6441.2	6100.7	5753.5	5584.8	5611.3
42.5°	6682.6	6712.4	6887.6	7148.8	7198.4	7152.2	6907.5	6494.1	6090.7	5905.6	5918.8
45°	7092.6	7132.3	7360.5	7595.2	7711.0	7631.6	7347.2	6953.8	6484.2	6325.5	6262.7
47.5°	7469.6	7548.9	7770.5	8011.9	8190.4	8197.0	7846.5	7370.4	6874.4	6666.1	6662.8
50°	7724.2	7839.9	8058.2	8332.6	8593.8	8696.3	8345.8	7833.3	7301.0	7079.4	7056.3
52.5°	7863.1	7982.1	8200.3	8626.9	8917.9	9076.6	8911.3	8266.5	7800.2	7568.8	7532.4
55°	7694.4	7773.8	8130.9	8729.4	9179.1	9440.3	9331.2	8865.0	8296.2	8107.8	8140.8
57.5°	6976.9	7142.2	7582.0	8329.3	9172.5	9814.0	9804.0	9430.4	8868.3	8689.7	8696.3
60°	5743.5	5882.4	6424.7	7469.6	8802.1	9966.1	10316.6	9979.3	9509.8	9301.4	9294.8
62.5°	4053.9	4229.1	4857.4	5998.2	7711.0	9754.4	10905.1	10670.4	10138.0	9985.9	10042.1
65°	2268.3	2374.1	2956.1	3987.7	5875.8	8590.5	11010.9	11387.9	10776.2	10544.7	10554.6
67.5°	1213.5	1253.2	1524.3	2093.1	3594.3	6623.1	9942.9	11801.2	11467.3	11067.2	11004.3
70°	833.3	846.5	915.9	1071.3	1699.6	3961.3	7499.3	11063.9	11986.4	11440.8	11546.6
72.5°	704.3	697.7	714.2	730.8	889.5	1772.3	4401.1	8514.5	11315.2	11110.1	11070.5
75°	611.7	608.4	615.0	598.5	618.3	780.4	1947.6	5307.1	8283.0	9245.2	9394.0
77.5°	505.9	509.2	512.5	496.0	489.4	515.8	783.7	2331.1	4077.0	4500.3	4854.1
80°	383.6	390.2	416.6	400.1	373.6	377.0	462.9	780.4	1170.5	1061.4	1094.5
82.5°	261.2	264.5	320.7	300.9	281.1	254.6	297.6	403.4	456.3	347.2	304.2
85°	185.2	181.9	208.3	191.8	178.6	129.0	178.6	228.2	274.4	171.9	155.4
87.5°	43.0	43.0	86.0	69.4	66.1	52.9	69.4	89.3	119.0	76.1	69.4
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°	3141.3	3141.3	3141.3	3141.3	3141.3	3141.3	3141.3	3141.3	3141.3	3141.3
2.5°	3200.8	3171.0	3171.0	3164.4	3138.0	3131.3	3108.2	3114.8	3098.3	3081.7
5°	3313.2	3273.5	3273.5	3217.3	3164.4	3157.8	3131.3	3131.3	3104.9	3111.5
7.5°	3468.6	3432.2	3372.7	3323.1	3250.4	3220.6	3171.0	3164.4	3157.8	3144.6
10°	3653.8	3607.5	3548.0	3445.5	3385.9	3329.7	3280.1	3210.7	3194.2	3197.5
12.5°	3905.1	3832.3	3703.4	3614.1	3538.1	3465.3	3392.6	3290.1	3266.9	3276.8
15°	4083.6	3991.1	3862.1	3829.0	3726.5	3637.2	3518.2	3402.5	3362.8	3352.9
17.5°	4229.1	4153.1	4077.0	4027.4	3944.8	3835.6	3670.3	3538.1	3448.8	3438.9
20°	4348.2	4249.0	4232.4	4262.2	4159.7	4086.9	3885.2	3723.2	3604.2	3554.6
22.5°	4420.9	4358.1	4404.4	4430.8	4424.2	4301.9	4093.6	3905.1	3756.3	3710.0
25°	4500.3	4427.5	4592.9	4682.1	4705.3	4503.6	4341.6	4093.6	3948.1	3918.3
27.5°	4539.9	4566.4	4758.2	4946.7	4930.1	4774.7	4556.5	4334.9	4219.2	4166.3
30°	4655.7	4698.7	4989.6	5201.3	5204.6	5052.5	4887.1	4635.8	4506.9	4483.7
32.5°	4864.0	4916.9	5227.7	5452.6	5492.2	5376.5	5211.2	5055.8	4923.5	4870.6
35°	5022.7	5158.3	5508.8	5713.8	5819.6	5750.2	5657.6	5495.6	5356.7	5310.4
37.5°	5250.9	5439.3	5776.6	6054.4	6173.4	6166.8	6097.4	5922.1	5806.4	5766.7
40°	5578.2	5766.7	6074.2	6441.2	6662.8	6652.9	6613.2	6477.6	6305.7	6285.8
42.5°	5925.4	6080.8	6480.9	6900.9	7218.3	7185.2	7079.4	6920.7	6801.7	6775.2
45°	6262.7	6504.1	6874.4	7413.4	7651.4	7734.1	7608.5	7337.3	7201.8	7185.2
47.5°	6685.9	6877.7	7340.6	7823.4	8177.2	8190.4	7975.5	7724.2	7476.2	7529.1
50°	7062.9	7317.5	7787.0	8316.1	8739.3	8587.2	8312.8	7998.6	7820.1	7750.6
52.5°	7466.3	7777.1	8322.7	8861.7	9096.4	8944.3	8497.9	8147.4	7876.3	7846.5
55°	8054.9	8216.9	8931.1	9344.4	9420.5	9099.7	8441.7	7945.7	7595.2	7509.3
57.5°	8653.3	8841.8	9466.8	9823.9	9744.5	9013.8	8078.0	7310.9	6851.3	6728.9
60°	9258.5	9489.9	10015.7	10343.0	9933.0	8421.9	7049.6	6061.0	5525.3	5416.2
62.5°	9933.0	10233.9	10703.4	10819.2	9374.2	7251.4	5594.8	4374.6	3832.3	3650.5
65°	10531.5	10839.0	11417.7	10720.0	8187.1	5409.6	3617.4	2499.8	2099.7	1954.2
67.5°	11024.2	11371.4	11655.7	9486.6	5994.8	3167.7	1884.8	1316.0	1167.2	1114.3
70°	11414.3	11993.0	10663.8	6973.6	3425.6	1544.2	1018.4	866.3	846.5	833.3
72.5°	11073.8	10997.7	7962.3	4024.1	1501.2	849.8	737.4	714.2	710.9	714.2
75°	9056.7	8078.0	4761.5	1749.2	753.9	615.0	611.7	601.8	618.3	618.3
77.5°	4394.5	3842.3	1990.6	750.6	496.0	482.8	499.3	499.3	499.3	499.3
80°	1018.4	1127.5	710.9	456.3	360.4	360.4	396.8	400.1	383.6	377.0
82.5°	347.2	462.9	390.2	287.7	238.1	267.8	300.9	307.5	254.6	257.9
85°	171.9	271.1	211.6	165.3	122.3	165.3	195.1	205.0	175.2	168.6
87.5°	79.4	119.0	79.4	56.2	43.0	59.5	56.2	46.3	26.5	26.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)