

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: P479070

Luminaire Tested: **IFLD-S-SA6C-827-U-5NQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479070
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6C-827-U-5NQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5NQ distribution lens
Light Source: (96) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

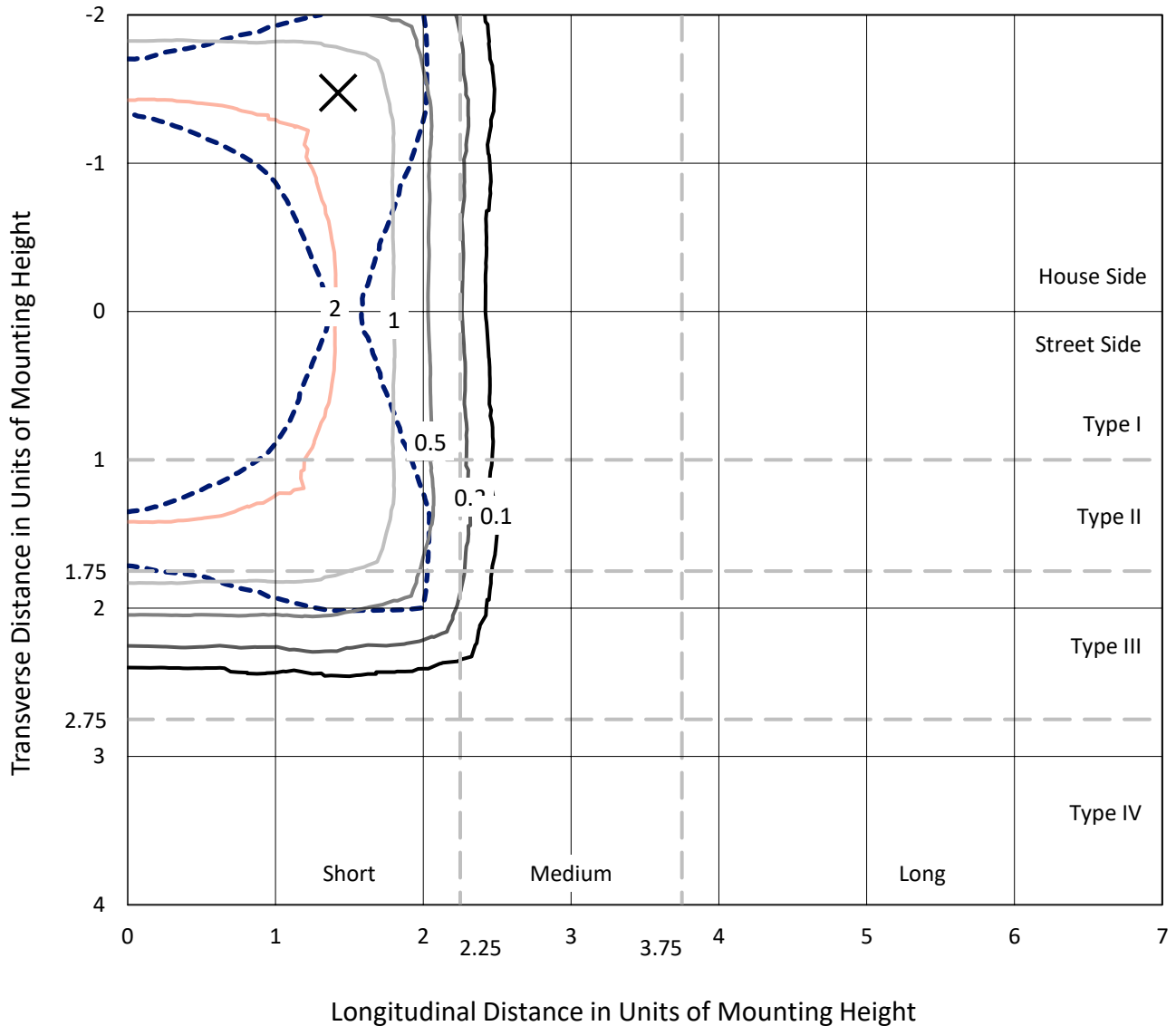
Lumens per Lamp: N/A
Luminaire Lumens: 30464.5 lumens
Efficiency: N/A
Efficacy: 94.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G2

Input Watts (W): 321.5
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

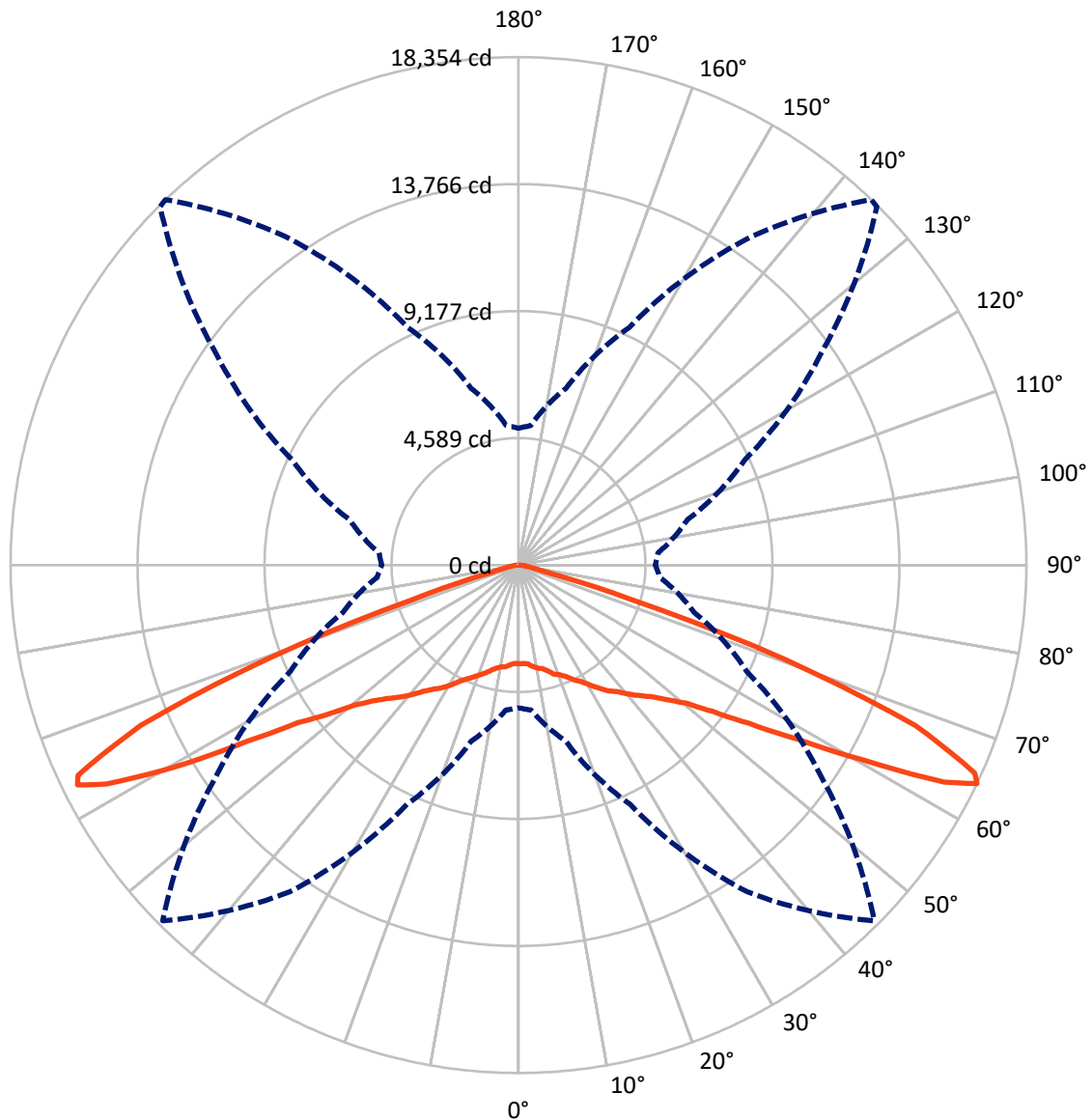
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.1 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 136-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15246.8	0.0	15246.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	15217.7	0.0	15217.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	30464.5	0.0	30464.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	350.5	1.2
10°-20°	1129.5	3.7
20°-30°	2122.9	7.0
30°-40°	3501.0	11.5
40°-50°	5475.3	18.0
50°-60°	8846.7	29.0
60°-70°	7965.9	26.1
70°-80°	943.6	3.1
80°-90°	129.2	0.4
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°	30464.5	100.0
0°-180°	30464.5	100.0

Coefficient of Utilization



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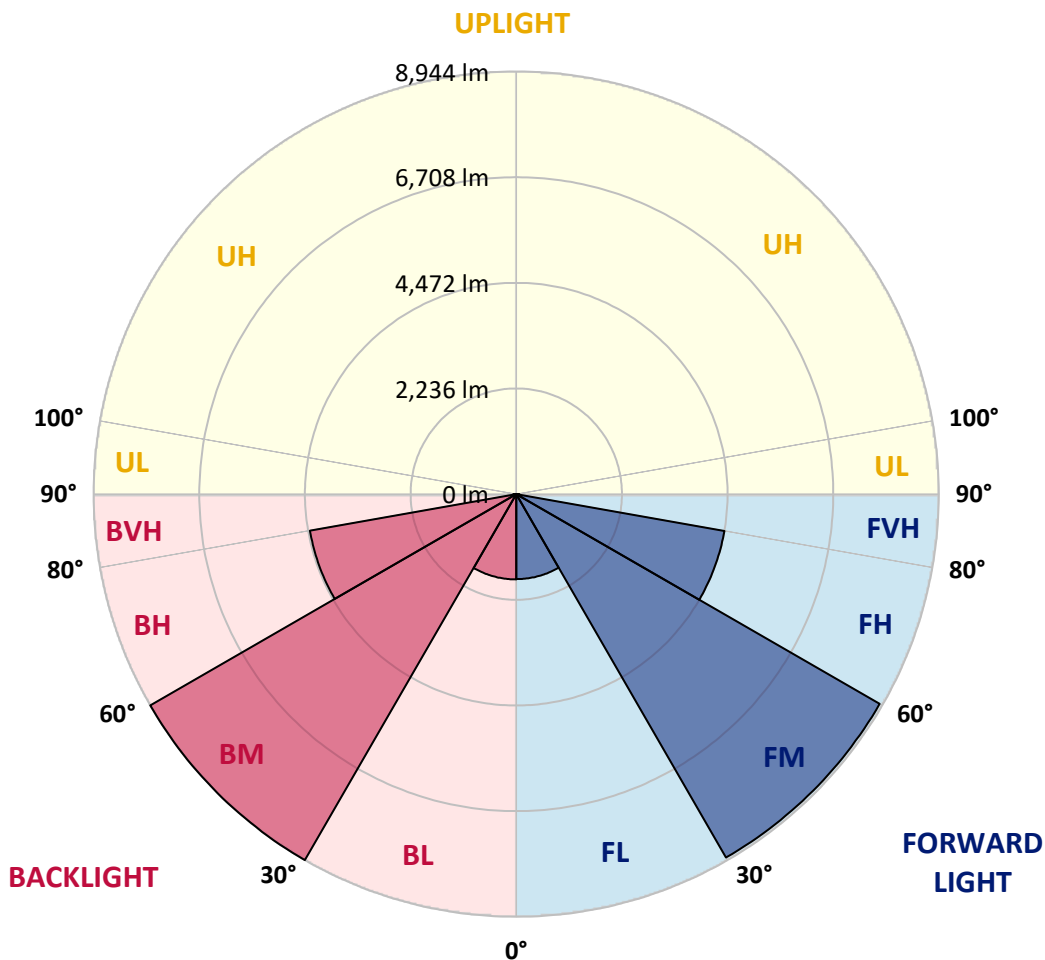
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1798.0	5.9			
FM (30°-60°)	8879.5	29.1			
FH (60°-80°)	4474.1	14.7			G2/5000
FVH (80°-90°)	66.3	0.2			G1/100
BL (0°-30°)	1804.9	5.9	B3/2500		
BM (30°-60°)	8943.5	29.4	B5		
BH (60°-80°)	4435.4	14.6	B4/5000		G2/5000
BVH (80°-90°)	62.9	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3566.8	3566.8	3566.8	3566.8	3566.8	3566.8	3566.8	3566.8	3566.8	3566.8	3566.8
2.5°	3524.8	3531.8	3594.7	3570.3	3591.2	3552.8	3580.7	3640.1	3570.3	3622.7	3640.1
5°	3563.3	3573.8	3573.8	3598.2	3612.2	3605.2	3622.7	3598.2	3664.6	3636.6	3678.6
7.5°	3703.0	3685.5	3657.6	3678.6	3682.1	3699.5	3717.0	3748.4	3737.9	3713.5	3755.4
10°	3727.5	3713.5	3755.4	3758.9	3741.4	3727.5	3744.9	3744.9	3776.4	3783.4	3783.4
12.5°	3769.4	3783.4	3779.9	3807.8	3811.3	3800.8	3828.8	3881.2	3867.2	3877.7	3853.2
15°	3930.1	3912.6	3909.1	3937.1	3982.5	3916.1	3965.0	3961.5	3947.5	3968.5	3912.6
17.5°	4069.8	4013.9	4038.4	4083.8	4066.3	4080.3	4143.2	4087.3	4101.3	4076.8	4059.3
20°	4192.1	4146.7	4150.2	4167.6	4167.6	4209.6	4234.0	4213.0	4199.1	4195.6	4202.6
22.5°	4328.3	4275.9	4279.4	4352.8	4377.2	4363.3	4345.8	4380.7	4387.7	4359.8	4391.2
25°	4429.6	4485.5	4503.0	4537.9	4485.5	4524.0	4510.0	4576.4	4618.3	4562.4	4600.8
27.5°	4695.1	4670.7	4716.1	4712.6	4754.5	4716.1	4740.6	4761.5	4779.0	4782.5	4765.0
30°	4932.7	4943.2	4897.8	5020.0	4922.2	4985.1	5027.0	5037.5	5058.5	5058.5	5006.1
32.5°	5184.2	5163.3	5236.6	5208.7	5191.2	5240.1	5194.7	5337.9	5254.1	5303.0	5243.6
35°	5467.2	5467.2	5495.1	5572.0	5467.2	5435.7	5519.6	5579.0	5579.0	5491.6	5512.6
37.5°	5785.1	5757.1	5792.1	5889.9	5809.5	5704.7	5858.4	5882.9	5865.4	5841.0	5799.1
40°	6008.7	6001.7	6071.5	6200.8	6085.5	6064.6	6092.5	6158.9	6179.8	6204.3	6148.4
42.5°	6385.9	6417.4	6620.0	6588.6	6494.2	6420.9	6413.9	6661.9	6602.5	6539.7	6508.2
45°	6944.9	6916.9	7021.7	7025.2	6903.0	6742.3	6777.2	7004.3	7105.6	6965.9	7018.3
47.5°	7388.6	7402.5	7475.9	7626.1	7343.1	7175.5	7304.7	7671.5	7640.1	7587.7	7636.6
50°	7982.4	8045.3	8275.9	8223.5	7972.0	7765.8	8048.8	8394.7	8433.1	8240.9	8206.0
52.5°	8803.4	8901.2	9027.0	9068.9	8827.8	8754.5	8771.9	9201.6	9107.3	8922.2	8803.4
55°	9523.0	9568.4	9799.0	10144.9	10127.4	9774.6	9977.2	10137.9	9753.6	9372.8	9404.3
57.5°	9830.4	9851.4	10494.2	11185.9	11598.1	11678.5	11447.9	10906.4	9991.1	9257.5	9212.1
60°	9065.4	9264.5	10040.1	11601.6	13484.5	14413.8	12880.2	10993.8	9435.7	8544.9	8478.5
62.5°	7245.3	7255.8	8408.6	10777.2	14658.3	17093.2	13428.7	10172.8	7954.5	6944.9	6679.4
64°	5159.8	5257.6	6581.6	9540.5	14413.8	18183.2	13362.3	9100.3	6557.1	5124.8	4939.7
65°	3703.0	3839.3	5117.8	8282.9	13840.9	18053.9	13163.2	8178.1	5303.0	3912.6	3724.0
67.5°	1362.4	1418.3	2008.7	4143.2	9938.7	15385.0	10431.3	4496.0	2330.1	1659.4	1491.7
70°	632.3	635.8	744.1	1369.4	4345.8	10288.1	4978.1	1687.3	876.8	695.2	646.3
72.5°	464.6	475.1	520.5	632.3	1278.6	4356.3	1634.9	691.7	513.5	454.1	443.7
75°	377.3	384.3	398.2	457.6	590.4	1166.8	663.7	478.6	408.7	366.8	352.8
77.5°	290.0	290.0	321.4	349.3	391.3	545.0	440.2	380.8	331.9	290.0	279.5
80°	209.6	213.1	251.5	272.5	265.5	359.8	317.9	314.4	272.5	227.1	209.6
82.5°	122.3	132.7	181.7	195.6	188.6	213.1	230.6	244.5	213.1	157.2	143.2
85°	69.9	73.4	104.8	108.3	108.3	101.3	132.7	146.7	143.2	97.8	87.3
87.5°	21.0	21.0	27.9	27.9	31.4	34.9	52.4	62.9	69.9	48.9	45.4
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°	136°	145°	155°	165°	175°	180°
0°	3566.8	3566.8	3566.8	3566.8	3566.8	3566.8	3566.8	3566.8	3566.8	3566.8	3566.8
2.5°	3622.7	3570.3	3573.8	3587.7	3542.3	3559.8	3612.2	3573.8	3563.3	3542.3	3531.8
5°	3605.2	3661.1	3640.1	3647.1	3636.6	3587.7	3580.7	3612.2	3629.6	3598.2	3661.1
7.5°	3727.5	3703.0	3675.1	3685.5	3661.1	3703.0	3731.0	3668.1	3699.5	3682.1	3647.1
10°	3797.3	3751.9	3772.9	3765.9	3748.4	3790.3	3762.4	3755.4	3727.5	3689.0	3744.9
12.5°	3821.8	3874.2	3909.1	3849.7	3860.2	3839.3	3821.8	3821.8	3790.3	3779.9	3790.3
15°	3930.1	3975.5	3961.5	4006.9	3947.5	3968.5	3989.5	3937.1	3965.0	3888.2	3947.5
17.5°	4129.2	4090.8	4139.7	4080.3	4101.3	4143.2	4076.8	4076.8	4097.8	4055.8	4003.4
20°	4255.0	4237.5	4220.0	4223.5	4188.6	4227.0	4206.1	4195.6	4164.1	4178.1	4206.1
22.5°	4373.7	4349.3	4356.3	4366.8	4391.2	4373.7	4363.3	4373.7	4296.9	4366.8	4268.9
25°	4520.5	4586.8	4565.9	4611.3	4541.4	4586.8	4583.3	4517.0	4558.9	4530.9	4510.0
27.5°	4765.0	4730.1	4761.5	4705.6	4754.5	4758.0	4716.1	4827.9	4779.0	4772.0	4758.0
30°	5079.4	5055.0	5034.0	5002.6	5041.0	5009.5	5044.5	5055.0	5009.5	4974.6	4908.2
32.5°	5257.6	5324.0	5348.4	5271.6	5275.0	5292.5	5261.1	5229.6	5257.6	5268.1	5257.6
35°	5509.1	5572.0	5586.0	5526.6	5495.1	5582.5	5519.6	5624.4	5533.6	5537.0	5442.7
37.5°	5802.5	5820.0	5938.8	5872.4	5844.5	5802.5	5917.8	5903.9	5924.8	5757.1	5841.0
40°	6134.4	6197.3	6263.7	6096.0	6092.5	6130.9	6123.9	6204.3	6165.9	6141.4	6082.0
42.5°	6497.7	6630.5	6641.0	6529.2	6459.3	6452.3	6487.3	6665.4	6668.9	6508.2	6438.3
45°	6979.8	7126.5	7088.1	6871.5	6794.7	6784.2	6955.4	7032.2	7098.6	7035.7	6976.3
47.5°	7580.7	7678.5	7650.6	7451.4	7203.4	7273.3	7441.0	7682.0	7612.1	7528.3	7458.4
50°	8223.5	8338.8	8279.4	8080.2	7842.7	7842.7	8048.8	8356.2	8335.3	8171.1	8108.2
52.5°	8936.1	9103.8	9240.1	8957.1	8758.0	8789.4	9114.3	9226.1	9173.7	9058.4	9006.0
55°	9467.1	9788.5	10068.0	10082.0	10092.5	10089.0	10172.8	10284.6	9910.8	9725.6	9537.0
57.5°	9337.9	9945.7	10902.9	11552.7	11744.8	11846.1	11818.2	11301.2	10417.3	9809.5	9872.4
60°	8415.6	9407.7	10951.8	13037.4	14434.8	14295.0	13785.0	11741.3	10137.9	9110.8	8981.5
62.5°	6714.3	7909.1	10130.9	13456.6	17306.3	17264.4	14595.5	10724.8	8447.1	7147.5	7067.2
64°	5058.5	6316.1	9037.4	13348.3	18312.4	18354.4	14389.3	9474.1	6609.5	5058.5	4936.2
65°	3870.7	5037.5	7965.0	13124.7	18095.8	18120.3	13816.4	8181.6	5023.5	3591.2	3458.5
67.5°	1540.6	2145.0	4321.3	9952.7	15538.7	15472.3	9858.4	3958.0	1921.4	1250.6	1226.2
70°	656.8	817.5	1516.1	4716.1	10403.4	10211.2	4244.5	1285.6	712.7	597.4	593.9
72.5°	450.6	499.6	649.8	1456.8	4324.8	4223.5	1208.7	597.4	485.6	447.2	447.2
75°	363.3	398.2	471.6	611.3	1145.8	1103.9	569.4	440.2	387.8	359.8	356.3
77.5°	283.0	317.9	370.3	422.7	524.0	520.5	380.8	331.9	300.4	279.5	272.5
80°	223.6	258.5	293.4	300.4	342.4	335.4	258.5	262.0	244.5	202.6	199.1
82.5°	153.7	209.6	234.1	213.1	202.6	202.6	185.2	185.2	171.2	125.8	115.3
85°	94.3	139.7	146.7	125.8	94.3	94.3	101.3	97.8	90.8	66.4	62.9
87.5°	48.9	66.4	59.4	48.9	31.4	31.4	27.9	21.0	21.0	17.5	17.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)