

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: P479084

Luminaire Tested: **IFLD-L-SA8B-827-U-5NQ**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P479084  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8B-827-U-5NQ  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5NQ distribution lens  
Light Source: (128) 2700K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

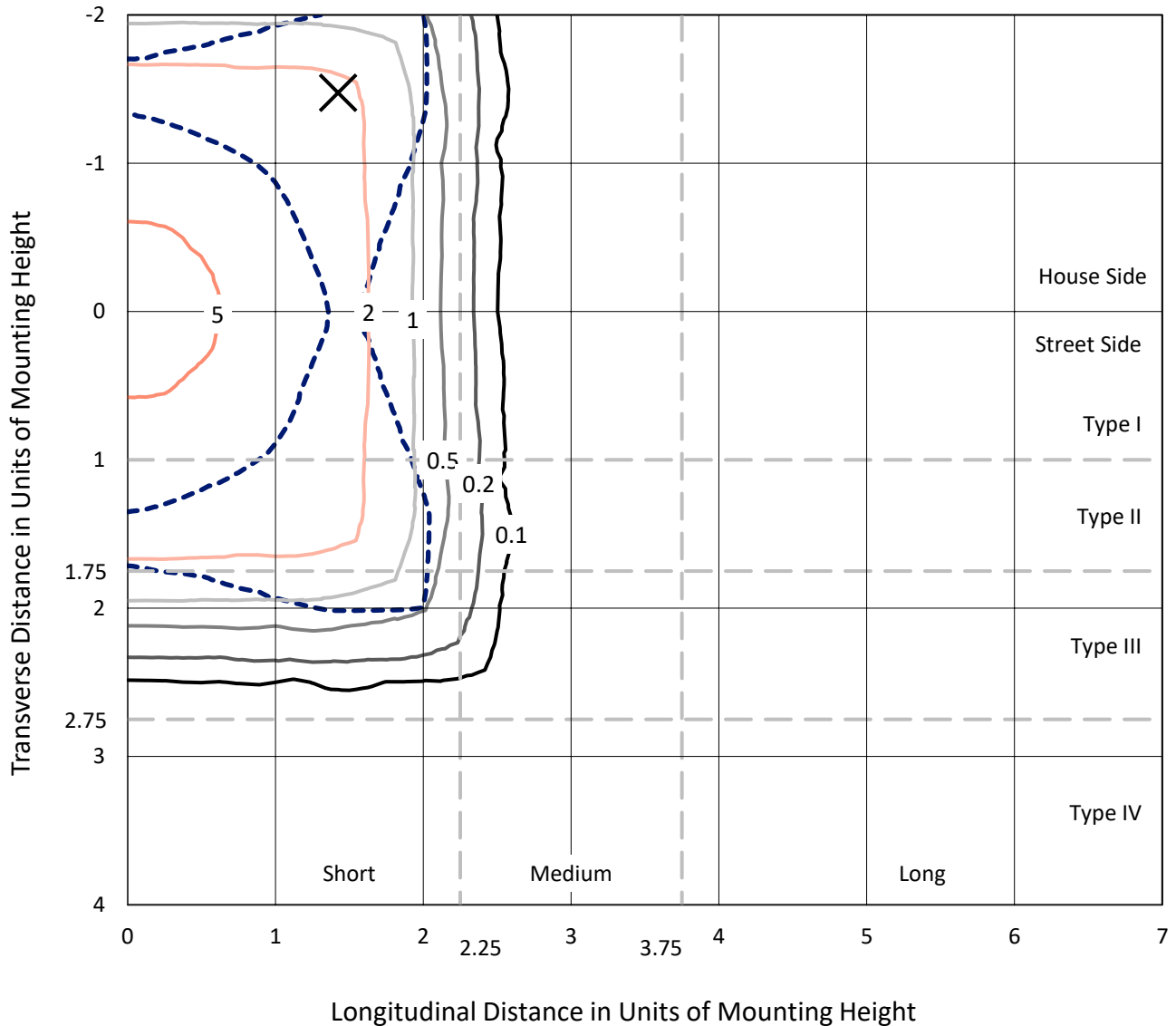
Lumens per Lamp: N/A  
Luminaire Lumens: 29839 lumens  
Efficiency: N/A  
Efficacy: 93.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G2

Input Watts (W): 320  
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

REPORT NUMBER: P479084  
 CATALOG NUMBER: IFLD-L-SA8B-827-U-5NQ

### Iso-Footcandle Lines of Horizontal Illumination

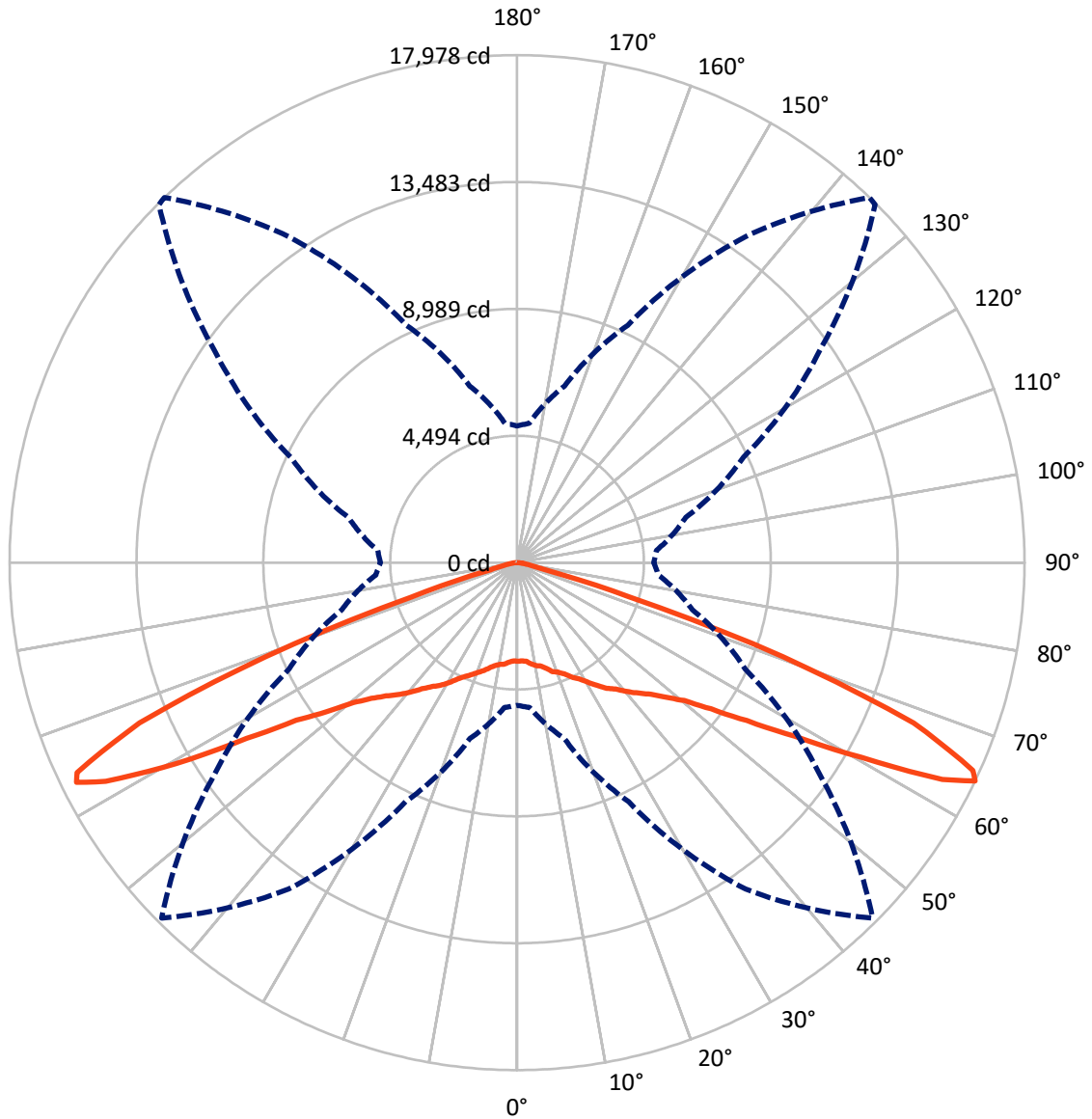
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 fc  
 Type V - Short - N/A

REPORT NUMBER: P479084  
CATALOG NUMBER: IFLD-L-SA8B-827-U-5NQ

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P479084

CATALOG NUMBER: IFLD-L-SA8B-827-U-5NQ

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	14933.7	0.0	14933.7
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	14905.3	0.0	14905.3
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	29839.0	0.0	29839.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	343.3	1.2
10°-20°	1106.4	3.7
20°-30°	2079.3	7.0
30°-40°	3429.1	11.5
40°-50°	5362.9	18.0
50°-60°	8665.1	29.0
60°-70°	7802.3	26.1
70°-80°	924.2	3.1
80°-90°	126.5	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°	29839.0	100.0
0°-180°	29839.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P479084

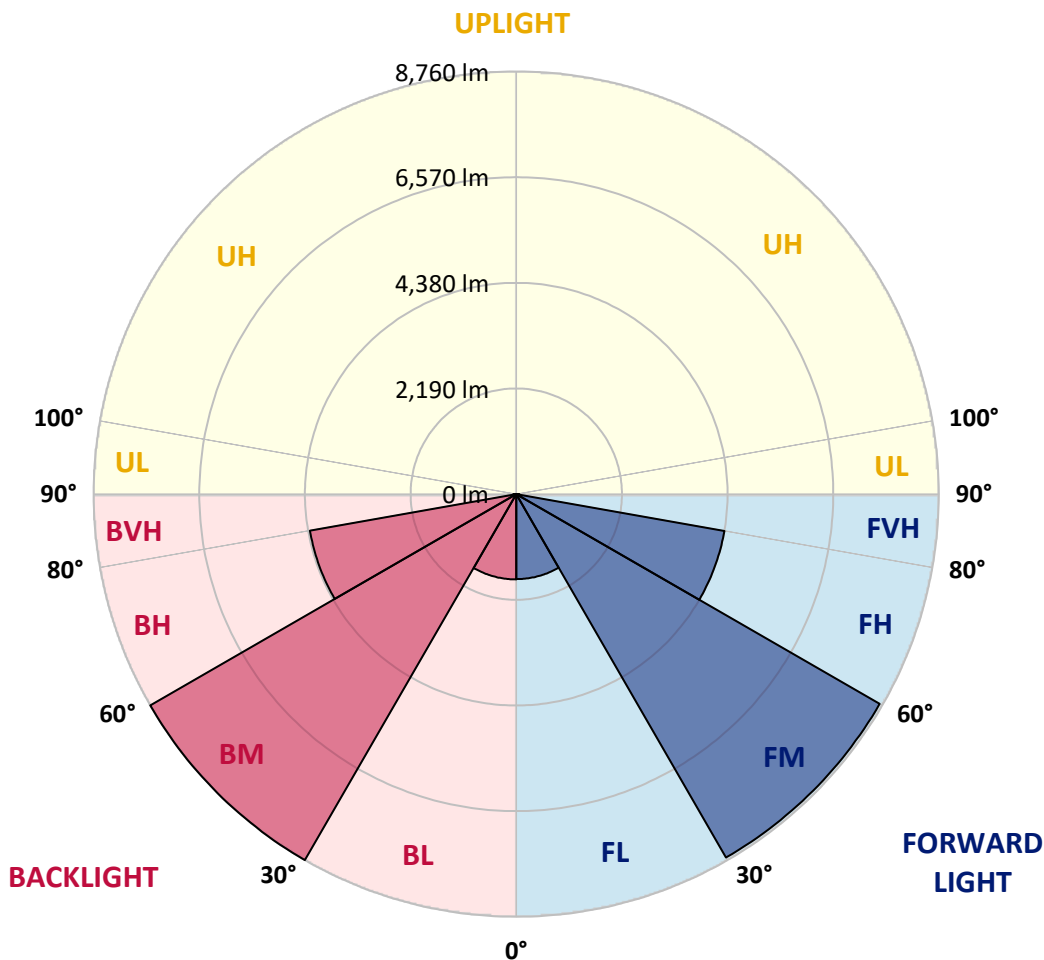
CATALOG NUMBER: IFLD-L-SA8B-827-U-5NQ

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1761.1	5.9			
FM (30°-60°)	8697.1	29.1			
FH (60°-80°)	4382.2	14.7			G2/5000
FVH (80°-90°)	64.9	0.2			G1/100
BL (0°-30°)	1767.8	5.9	B3/2500		
BM (30°-60°)	8759.9	29.4	B5		
BH (60°-80°)	4344.4	14.6	B4/5000		G2/5000
BVH (80°-90°)	61.6	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





REPORT NUMBER: P479084

CATALOG NUMBER: IFLD-L-SA8B-827-U-5NQ

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3493.5	3493.5	3493.5	3493.5	3493.5	3493.5	3493.5	3493.5	3493.5	3493.5	3493.5
2.5°	3452.5	3459.3	3520.9	3497.0	3517.5	3479.8	3507.2	3565.4	3497.0	3548.3	3565.4
5°	3490.1	3500.4	3500.4	3524.3	3538.0	3531.2	3548.3	3524.3	3589.3	3562.0	3603.0
7.5°	3627.0	3609.9	3582.5	3603.0	3606.5	3623.6	3640.7	3671.5	3661.2	3637.2	3678.3
10°	3650.9	3637.2	3678.3	3681.7	3664.6	3650.9	3668.0	3668.0	3698.8	3705.7	3705.7
12.5°	3692.0	3705.7	3702.3	3729.6	3733.1	3722.8	3750.2	3801.5	3787.8	3798.1	3774.1
15°	3849.4	3832.3	3828.9	3856.2	3900.7	3835.7	3883.6	3880.2	3866.5	3887.0	3832.3
17.5°	3986.3	3931.5	3955.5	3999.9	3982.8	3996.5	4058.1	4003.4	4017.1	3993.1	3976.0
20°	4106.0	4061.5	4065.0	4082.1	4082.1	4123.1	4147.1	4126.5	4112.9	4109.4	4116.3
22.5°	4239.5	4188.1	4191.6	4263.4	4287.4	4273.7	4256.6	4290.8	4297.6	4270.3	4301.1
25°	4338.7	4393.4	4410.5	4444.8	4393.4	4431.1	4417.4	4482.4	4523.5	4468.7	4506.4
27.5°	4598.7	4574.8	4619.3	4615.8	4656.9	4619.3	4643.2	4663.8	4680.9	4684.3	4667.2
30°	4831.4	4841.7	4797.2	4917.0	4821.1	4882.7	4923.8	4934.1	4954.6	4954.6	4903.3
32.5°	5077.8	5057.2	5129.1	5101.7	5084.6	5132.5	5088.0	5228.3	5146.2	5194.1	5135.9
35°	5354.9	5354.9	5382.3	5457.6	5354.9	5324.1	5406.3	5464.4	5464.4	5378.9	5399.4
37.5°	5666.3	5638.9	5673.1	5769.0	5690.3	5587.6	5738.2	5762.1	5745.0	5721.0	5680.0
40°	5885.3	5878.4	5946.9	6073.5	5960.6	5940.0	5967.4	6032.4	6053.0	6076.9	6022.2
42.5°	6254.8	6285.6	6484.1	6453.3	6360.9	6289.0	6282.2	6525.1	6467.0	6405.4	6374.6
45°	6802.3	6774.9	6877.6	6881.0	6761.2	6603.8	6638.1	6860.5	6959.7	6822.8	6874.2
47.5°	7236.9	7250.5	7322.4	7469.5	7192.4	7028.1	7154.7	7514.0	7483.2	7431.9	7479.8
50°	7818.5	7880.1	8106.0	8054.6	7808.3	7606.4	7883.6	8222.3	8259.9	8071.7	8037.5
52.5°	8622.6	8718.4	8841.6	8882.7	8646.6	8574.7	8591.8	9012.7	8920.3	8739.0	8622.6
55°	9327.5	9372.0	9597.8	9936.6	9919.5	9573.9	9772.3	9929.7	9553.3	9180.4	9211.2
57.5°	9628.6	9649.1	10278.7	10956.2	11360.0	11438.7	11212.8	10682.5	9786.0	9067.5	9023.0
60°	8879.3	9074.3	9833.9	11363.4	13207.7	14117.9	12615.7	10768.0	9242.0	8369.4	8304.4
62.5°	7096.6	7106.8	8236.0	10555.9	14357.4	16742.3	13152.9	9963.9	7791.2	6802.3	6542.3
64°	5053.8	5149.6	6446.4	9344.6	14117.9	17809.8	13087.9	8913.5	6422.5	5019.6	4838.3
65°	3627.0	3760.4	5012.8	8112.8	13556.7	17683.2	12892.9	8010.2	5194.1	3832.3	3647.5
67.5°	1334.5	1389.2	1967.5	4058.1	9734.7	15069.1	10217.1	4403.7	2282.3	1625.3	1461.1
70°	619.3	622.7	728.8	1341.3	4256.6	10076.8	4875.9	1652.7	858.8	680.9	633.0
72.5°	455.1	465.3	509.8	619.3	1252.3	4266.8	1601.3	677.5	503.0	444.8	434.6
75°	369.5	376.4	390.1	448.2	578.3	1142.8	650.1	468.8	400.3	359.3	345.6
77.5°	284.0	284.0	314.8	342.2	383.2	533.8	431.1	373.0	325.1	284.0	273.7
80°	205.3	208.7	246.4	266.9	260.0	352.4	311.4	308.0	266.9	222.4	205.3
82.5°	119.8	130.0	177.9	191.6	184.8	208.7	225.8	239.5	208.7	154.0	140.3
85°	68.4	71.9	102.7	106.1	106.1	99.2	130.0	143.7	140.3	95.8	85.5
87.5°	20.5	20.5	27.4	27.4	30.8	34.2	51.3	61.6	68.4	47.9	44.5
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: P479084  
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**CANDELA DISTRIBUTION (continued):**

	95°	105°	115°	125°	135°	136°	145°	155°	165°	175°	180°
0°	3493.5	3493.5	3493.5	3493.5	3493.5	3493.5	3493.5	3493.5	3493.5	3493.5	3493.5
2.5°	3548.3	3497.0	3500.4	3514.1	3469.6	3486.7	3538.0	3500.4	3490.1	3469.6	3459.3
5°	3531.2	3585.9	3565.4	3572.2	3562.0	3514.1	3507.2	3538.0	3555.1	3524.3	3585.9
7.5°	3650.9	3627.0	3599.6	3609.9	3585.9	3627.0	3654.4	3592.8	3623.6	3606.5	3572.2
10°	3719.4	3674.9	3695.4	3688.6	3671.5	3712.5	3685.1	3678.3	3650.9	3613.3	3668.0
12.5°	3743.3	3794.6	3828.9	3770.7	3781.0	3760.4	3743.3	3743.3	3712.5	3702.3	3712.5
15°	3849.4	3893.9	3880.2	3924.7	3866.5	3887.0	3907.6	3856.2	3883.6	3808.3	3866.5
17.5°	4044.4	4006.8	4054.7	3996.5	4017.1	4058.1	3993.1	3993.1	4013.6	3972.6	3921.2
20°	4167.6	4150.5	4133.4	4136.8	4102.6	4140.2	4119.7	4109.4	4078.6	4092.3	4119.7
22.5°	4283.9	4260.0	4266.8	4277.1	4301.1	4283.9	4273.7	4283.9	4208.7	4277.1	4181.3
25°	4427.7	4492.7	4472.1	4516.6	4448.2	4492.7	4489.2	4424.2	4465.3	4437.9	4417.4
27.5°	4667.2	4633.0	4663.8	4609.0	4656.9	4660.3	4619.3	4728.8	4680.9	4674.0	4660.3
30°	4975.1	4951.2	4930.6	4899.8	4937.5	4906.7	4940.9	4951.2	4906.7	4872.5	4807.5
32.5°	5149.6	5214.6	5238.6	5163.3	5166.7	5183.8	5153.1	5122.3	5149.6	5159.9	5149.6
35°	5396.0	5457.6	5471.3	5413.1	5382.3	5467.8	5406.3	5508.9	5419.9	5423.4	5331.0
37.5°	5683.4	5700.5	5816.9	5751.8	5724.5	5683.4	5796.3	5782.6	5803.2	5638.9	5721.0
40°	6008.5	6070.1	6135.1	5970.8	5967.4	6005.0	5998.2	6076.9	6039.3	6015.3	5957.1
42.5°	6364.3	6494.3	6504.6	6395.1	6326.7	6319.8	6354.1	6528.6	6532.0	6374.6	6306.2
45°	6836.5	6980.2	6942.6	6730.4	6655.2	6644.9	6812.6	6887.8	6952.9	6891.3	6833.1
47.5°	7425.0	7520.9	7493.5	7298.4	7055.5	7123.9	7288.2	7524.3	7455.8	7373.7	7305.3
50°	8054.6	8167.6	8109.4	7914.3	7681.7	7681.7	7883.6	8184.7	8164.1	8003.3	7941.7
52.5°	8752.7	8916.9	9050.3	8773.2	8578.2	8608.9	8927.2	9036.7	8985.3	8872.4	8821.1
55°	9272.8	9587.5	9861.3	9875.0	9885.2	9881.8	9963.9	10073.4	9707.3	9526.0	9341.2
57.5°	9146.2	9741.5	10679.1	11315.5	11503.7	11602.9	11575.5	11069.1	10203.5	9608.1	9669.7
60°	8242.8	9214.6	10727.0	12769.7	14138.4	14001.5	13502.0	11500.3	9929.7	8923.7	8797.1
62.5°	6576.5	7746.7	9922.9	13180.3	16951.0	16909.9	14295.8	10504.6	8273.6	7000.8	6922.1
64°	4954.6	6186.4	8851.9	13074.2	17936.4	17977.5	14093.9	9279.6	6473.8	4954.6	4834.8
65°	3791.2	4934.1	7801.4	12855.3	17724.3	17748.3	13532.7	8013.6	4920.4	3517.5	3387.5
67.5°	1509.0	2100.9	4232.6	9748.4	15219.6	15154.6	9656.0	3876.8	1881.9	1225.0	1201.0
70°	643.3	800.7	1485.0	4619.3	10189.8	10001.6	4157.3	1259.2	698.0	585.1	581.7
72.5°	441.4	489.3	636.4	1426.8	4236.0	4136.8	1183.9	585.1	475.6	438.0	438.0
75°	355.9	390.1	461.9	598.8	1122.3	1081.3	557.7	431.1	379.8	352.4	349.0
77.5°	277.2	311.4	362.7	414.0	513.3	509.8	373.0	325.1	294.3	273.7	266.9
80°	219.0	253.2	287.4	294.3	335.3	328.5	253.2	256.6	239.5	198.5	195.0
82.5°	150.6	205.3	229.3	208.7	198.5	198.5	181.3	181.3	167.7	123.2	112.9
85°	92.4	136.9	143.7	123.2	92.4	92.4	99.2	95.8	89.0	65.0	61.6
87.5°	47.9	65.0	58.2	47.9	30.8	30.8	27.4	20.5	20.5	17.1	17.1
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)