

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: P481411

Luminaire Tested: **IFLD-S-SA6D-827-U-RW**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481411
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6D-827-U-RW
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ RW distribution lens
Light Source: (96) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

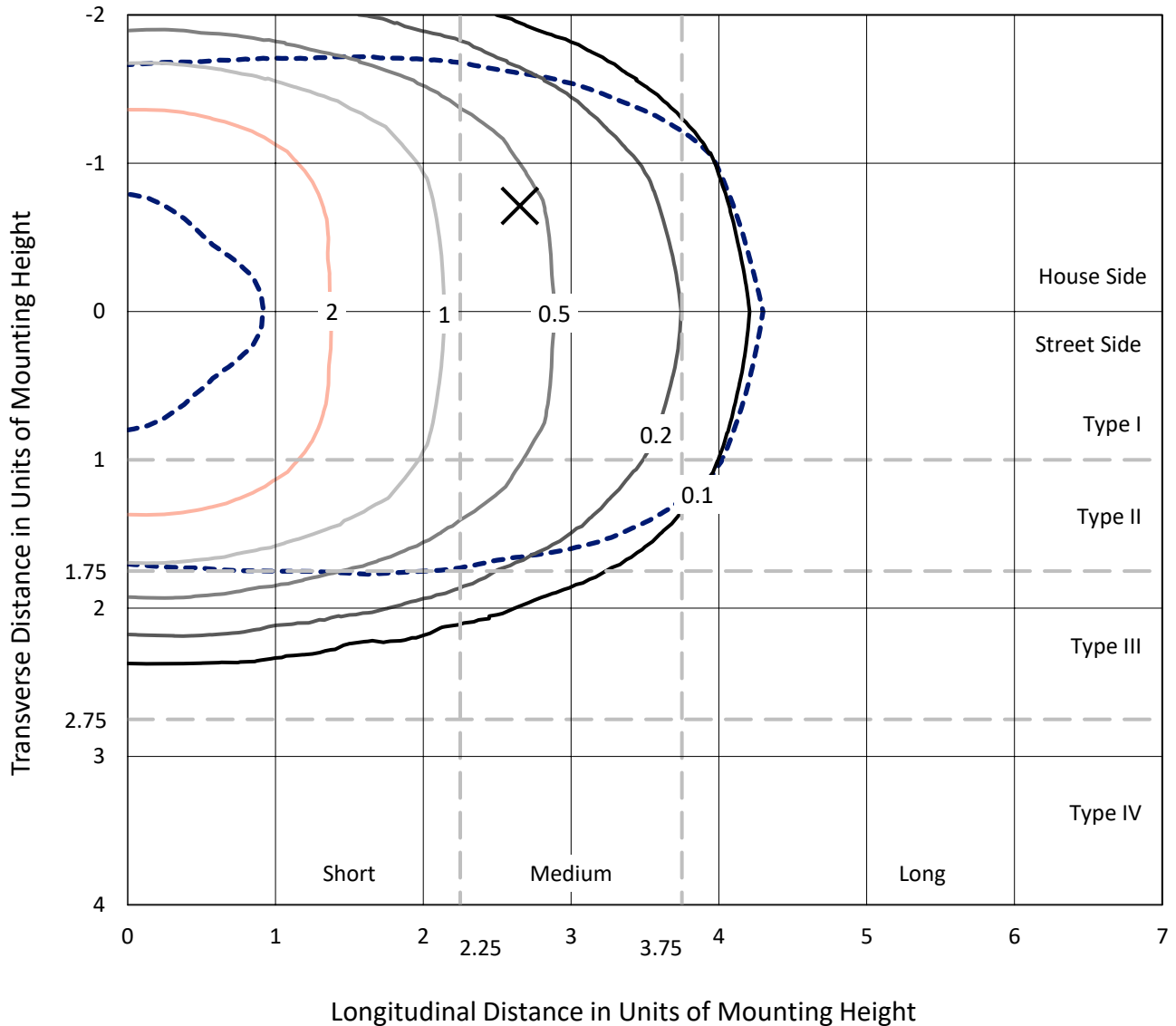
Lumens per Lamp: N/A
Luminaire Lumens: 34619.4 lumens
Efficiency: N/A
Efficacy: 94.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B5 - U0 - G5

Input Watts (W): 368.2
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: P481411
 CATALOG NUMBER: IFLD-S-SA6D-827-U-RW

Iso-Footcandle Lines of Horizontal Illumination

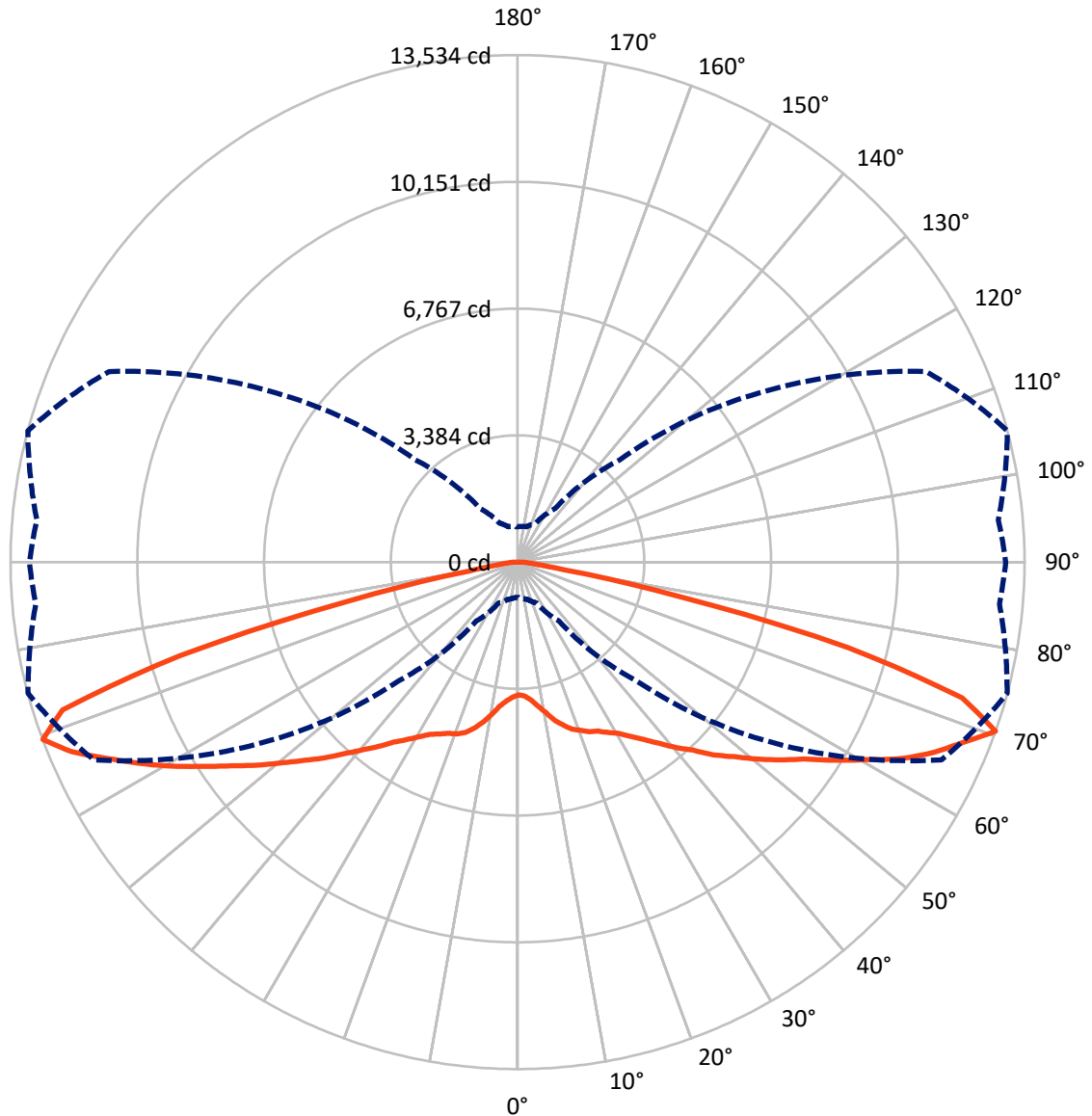
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.7 fc
 Type II - Short - N/A

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CATALOG NUMBER: IFLD-S-SA6D-827-U-RW

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	17186.5	0.0	17186.5
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	17432.8	0.0	17432.8
	% Fixture	50.4	0.0	50.4
Total	Lumens	34619.4	0.0	34619.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	352.8	1.0
10°-20°	1201.4	3.5
20°-30°	2326.3	6.7
30°-40°	3934.8	11.4
40°-50°	6277.2	18.1
50°-60°	8592.1	24.8
60°-70°	8098.6	23.4
70°-80°	3567.7	10.3
80°-90°	268.4	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°	34619.4	100.0
0°-180°	34619.4	100.0

Coefficient of Utilization

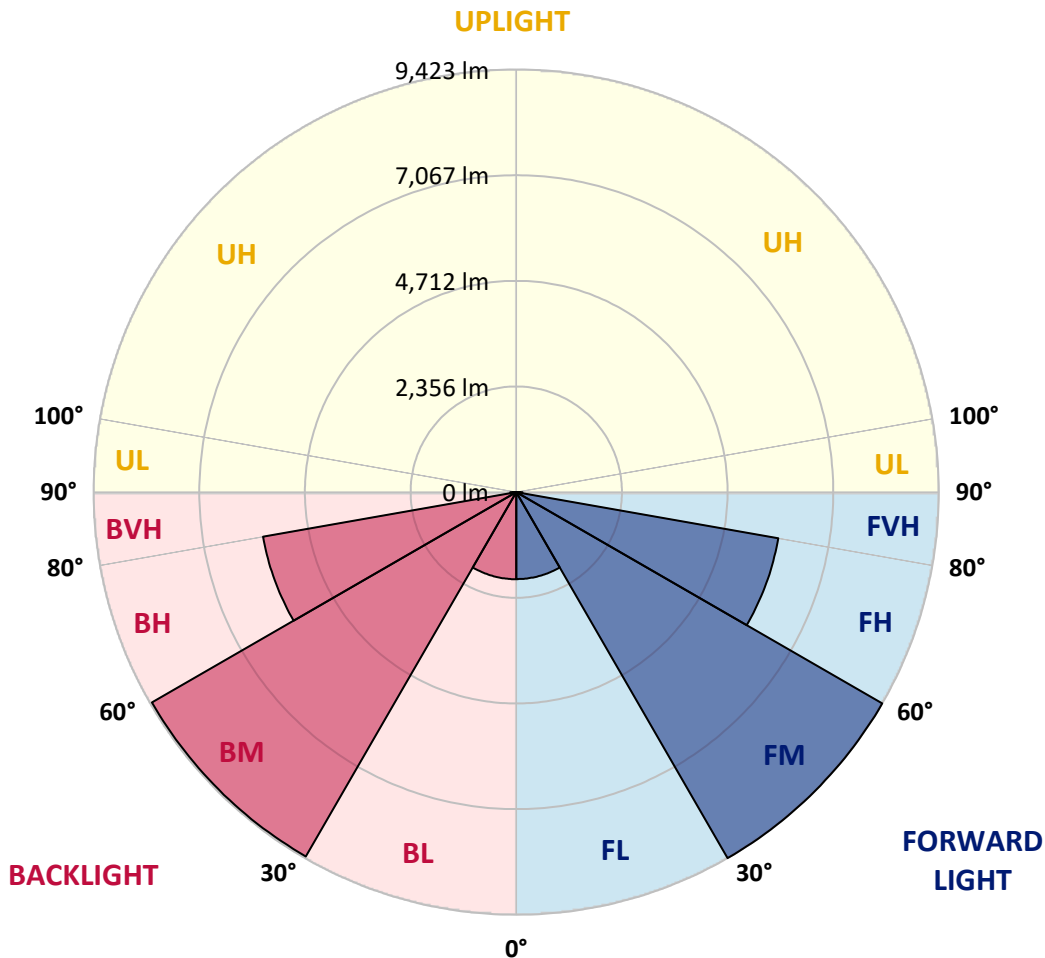


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1939.2	5.6			
FM (30°-60°)	9423.1	27.2			
FH (60°-80°)	5933.4	17.1			G3/7500
FVH (80°-90°)	137.1	0.4			G2/225
BL (0°-30°)	1941.3	5.6	B3/2500		
BM (30°-60°)	9381.0	27.1	B5		
BH (60°-80°)	5732.9	16.6	B5		G5
BVH (80°-90°)	131.3	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°	3545.0	3545.0	3545.0	3545.0	3545.0	3545.0	3545.0	3545.0	3545.0	3545.0	3545.0
2.5°	3522.6	3522.6	3518.9	3537.5	3556.2	3563.6	3578.6	3582.3	3604.7	3586.0	3623.3
5°	3511.4	3507.7	3537.5	3582.3	3582.3	3630.8	3660.7	3701.7	3712.9	3735.3	3742.8
7.5°	3589.8	3582.3	3567.4	3615.9	3656.9	3731.6	3772.6	3843.5	3869.6	3899.5	3933.1
10°	3638.3	3638.3	3623.3	3709.2	3746.5	3847.2	3936.8	4007.7	4108.5	4142.0	4145.8
12.5°	3645.7	3656.9	3701.7	3813.7	3918.1	4048.7	4115.9	4250.3	4351.0	4414.4	4436.8
15°	3757.7	3735.3	3783.8	3936.8	4089.8	4205.5	4324.9	4421.9	4567.4	4649.5	4701.8
17.5°	3858.4	3836.0	3925.6	4108.5	4265.2	4444.3	4548.8	4653.3	4757.7	4832.4	4836.1
20°	4018.9	4037.6	4115.9	4313.7	4518.9	4675.7	4795.1	4813.7	4866.0	4974.2	4955.5
22.5°	4216.7	4201.7	4365.9	4582.4	4806.3	4936.9	5004.0	4955.5	4929.4	5045.1	5071.2
25°	4414.4	4459.2	4608.5	4810.0	5078.7	5254.0	5272.7	5138.4	5041.3	5082.4	5071.2
27.5°	4716.7	4724.2	4880.9	5119.7	5392.1	5545.1	5533.9	5343.6	5157.0	5160.8	5168.2
30°	5104.8	5067.5	5239.1	5455.5	5724.2	5862.3	5880.9	5608.5	5358.5	5283.9	5302.6
32.5°	5477.9	5522.7	5672.0	5918.3	6116.0	6194.4	6153.4	5910.8	5586.2	5485.4	5496.6
35°	5955.6	5948.1	6153.4	6362.3	6511.6	6526.5	6492.9	6138.4	5832.4	5701.8	5649.6
37.5°	6466.8	6534.0	6668.3	6840.0	6996.7	7004.1	6821.3	6537.7	6160.8	5944.4	6007.8
40°	7037.7	7112.4	7209.4	7459.4	7575.1	7455.7	7269.1	6884.7	6492.9	6302.6	6332.5
42.5°	7541.5	7575.1	7772.8	8067.6	8123.6	8071.4	7795.2	7328.8	6873.5	6664.6	6679.5
45°	8004.2	8049.0	8306.5	8571.4	8702.0	8612.5	8291.5	7847.5	7317.6	7138.5	7067.6
47.5°	8429.6	8519.2	8769.2	9041.6	9243.1	9250.5	8855.0	8317.7	7757.9	7522.8	7519.1
50°	8716.9	8847.5	9093.8	9403.5	9698.3	9814.0	9418.5	8840.1	8239.3	7989.3	7963.2
52.5°	8873.7	9008.0	9254.3	9735.7	10064.0	10243.1	10056.6	9328.9	8802.8	8541.6	8500.5
55°	8683.4	8772.9	9175.9	9851.3	10358.8	10653.6	10530.5	10004.3	9362.5	9149.8	9187.1
57.5°	7873.6	8060.2	8556.5	9399.8	10351.4	11075.3	11064.1	10642.4	10008.1	9806.6	9814.0
60°	6481.7	6638.5	7250.4	8429.6	9933.4	11246.9	11642.5	11261.9	10732.0	10496.9	10489.4
62.5°	4574.9	4772.7	5481.7	6769.1	8702.0	11008.1	12306.7	12041.8	11441.0	11269.3	11332.8
65°	2559.9	2679.3	3336.0	4500.3	6631.0	9694.6	12426.1	12851.5	12161.2	11900.0	11911.2
67.5°	1369.5	1414.3	1720.3	2362.1	4056.2	7474.3	11220.8	13318.0	12941.1	12489.5	12418.6
70°	940.4	955.3	1033.6	1209.0	1918.0	4470.4	8463.2	12485.8	13526.9	12911.2	13030.6
72.5°	794.8	787.4	806.0	824.7	1003.8	2000.1	4966.7	9608.8	12769.4	12538.1	12493.3
75°	690.3	686.6	694.1	675.4	697.8	880.6	2197.9	5989.2	9347.6	10433.5	10601.4
77.5°	570.9	574.7	578.4	559.7	552.3	582.1	884.4	2630.8	4601.0	5078.7	5477.9
80°	432.9	440.3	470.2	451.5	421.7	425.4	522.4	880.6	1321.0	1197.8	1235.1
82.5°	294.8	298.5	362.0	339.6	317.2	287.3	335.8	455.3	515.0	391.8	343.3
85°	209.0	205.2	235.1	216.4	201.5	145.5	201.5	257.5	309.7	194.0	175.4
87.5°	48.5	48.5	97.0	78.4	74.6	59.7	78.4	100.8	134.3	85.8	78.4
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: P481411

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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3545.0	3545.0	3545.0	3545.0	3545.0	3545.0	3545.0	3545.0	3545.0	3545.0
2.5°	3612.2	3578.6	3578.6	3571.1	3541.3	3533.8	3507.7	3515.1	3496.5	3477.8
5°	3739.0	3694.2	3694.2	3630.8	3571.1	3563.6	3533.8	3533.8	3503.9	3511.4
7.5°	3914.4	3873.4	3806.2	3750.2	3668.1	3634.5	3578.6	3571.1	3563.6	3548.7
10°	4123.4	4071.1	4004.0	3888.3	3821.1	3757.7	3701.7	3623.3	3604.7	3608.4
12.5°	4407.0	4324.9	4179.4	4078.6	3992.8	3910.7	3828.6	3712.9	3686.8	3698.0
15°	4608.5	4504.0	4358.5	4321.2	4205.5	4104.7	3970.4	3839.8	3795.0	3783.8
17.5°	4772.7	4686.8	4601.0	4545.0	4451.8	4328.6	4142.0	3992.8	3892.0	3880.8
20°	4907.0	4795.1	4776.4	4810.0	4694.3	4612.2	4384.6	4201.7	4067.4	4011.4
22.5°	4989.1	4918.2	4970.4	5000.3	4992.8	4854.8	4619.7	4407.0	4239.1	4186.8
25°	5078.7	4996.6	5183.1	5283.9	5310.0	5082.4	4899.5	4619.7	4455.5	4421.9
27.5°	5123.4	5153.3	5369.7	5582.4	5563.8	5388.4	5142.1	4892.1	4761.5	4701.8
30°	5254.0	5302.6	5630.9	5869.8	5873.5	5701.8	5515.3	5231.7	5086.1	5060.0
32.5°	5489.1	5548.8	5899.6	6153.4	6198.1	6067.5	5880.9	5705.6	5556.3	5496.6
35°	5668.2	5821.2	6216.8	6448.1	6567.6	6489.2	6384.7	6201.9	6045.1	5992.9
37.5°	5925.7	6138.4	6519.0	6832.5	6966.8	6959.4	6881.0	6683.2	6552.6	6507.8
40°	6295.2	6507.8	6854.9	7269.1	7519.1	7507.9	7463.1	7310.1	7116.1	7093.7
42.5°	6687.0	6862.3	7313.9	7787.8	8146.0	8108.7	7989.3	7810.2	7675.8	7646.0
45°	7067.6	7340.0	7757.9	8366.2	8634.8	8728.1	8586.3	8280.3	8127.3	8108.7
47.5°	7545.2	7761.7	8284.1	8828.9	9228.2	9243.1	9000.5	8716.9	8437.1	8496.8
50°	7970.6	8258.0	8787.8	9384.9	9862.5	9690.9	9381.2	9026.7	8825.2	8746.8
52.5°	8425.9	8776.6	9392.3	10000.6	10265.5	10093.9	9590.1	9194.6	8888.6	8855.0
55°	9090.1	9272.9	10079.0	10545.4	10631.2	10269.3	9526.7	8967.0	8571.4	8474.4
57.5°	9765.5	9978.2	10683.5	11086.5	10996.9	10172.2	9116.2	8250.5	7731.8	7593.7
60°	10448.4	10709.6	11302.9	11672.3	11209.6	9504.3	7955.7	6840.0	6235.4	6112.3
62.5°	11209.6	11549.2	12079.1	12209.7	10579.0	8183.3	6313.8	4936.9	4324.9	4119.6
65°	11885.0	12232.1	12885.1	12097.7	9239.4	6104.8	4082.3	2821.1	2369.5	2205.4
67.5°	12441.0	12832.9	13153.8	10705.9	6765.3	3574.8	2127.0	1485.2	1317.2	1257.5
70°	12881.4	13534.4	12034.3	7869.9	3865.9	1742.6	1149.3	977.7	955.3	940.4
72.5°	12497.0	12411.2	8985.6	4541.3	1694.1	959.0	832.1	806.0	802.3	806.0
75°	10220.8	9116.2	5373.5	1974.0	850.8	694.1	690.3	679.1	697.8	697.8
77.5°	4959.2	4336.1	2246.4	847.1	559.7	544.8	563.5	563.5	563.5	563.5
80°	1149.3	1272.5	802.3	515.0	406.7	406.7	447.8	451.5	432.9	425.4
82.5°	391.8	522.4	440.3	324.6	268.7	302.3	339.6	347.0	287.3	291.1
85°	194.0	306.0	238.8	186.6	138.1	186.6	220.2	231.4	197.8	190.3
87.5°	89.6	134.3	89.6	63.4	48.5	67.2	63.4	52.2	29.9	29.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)