

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: P481268

Luminaire Tested: **IFLD-L-SA8B-735-U-RW**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481268
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8B-735-U-RW
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ RW distribution lens
Light Source: (128) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

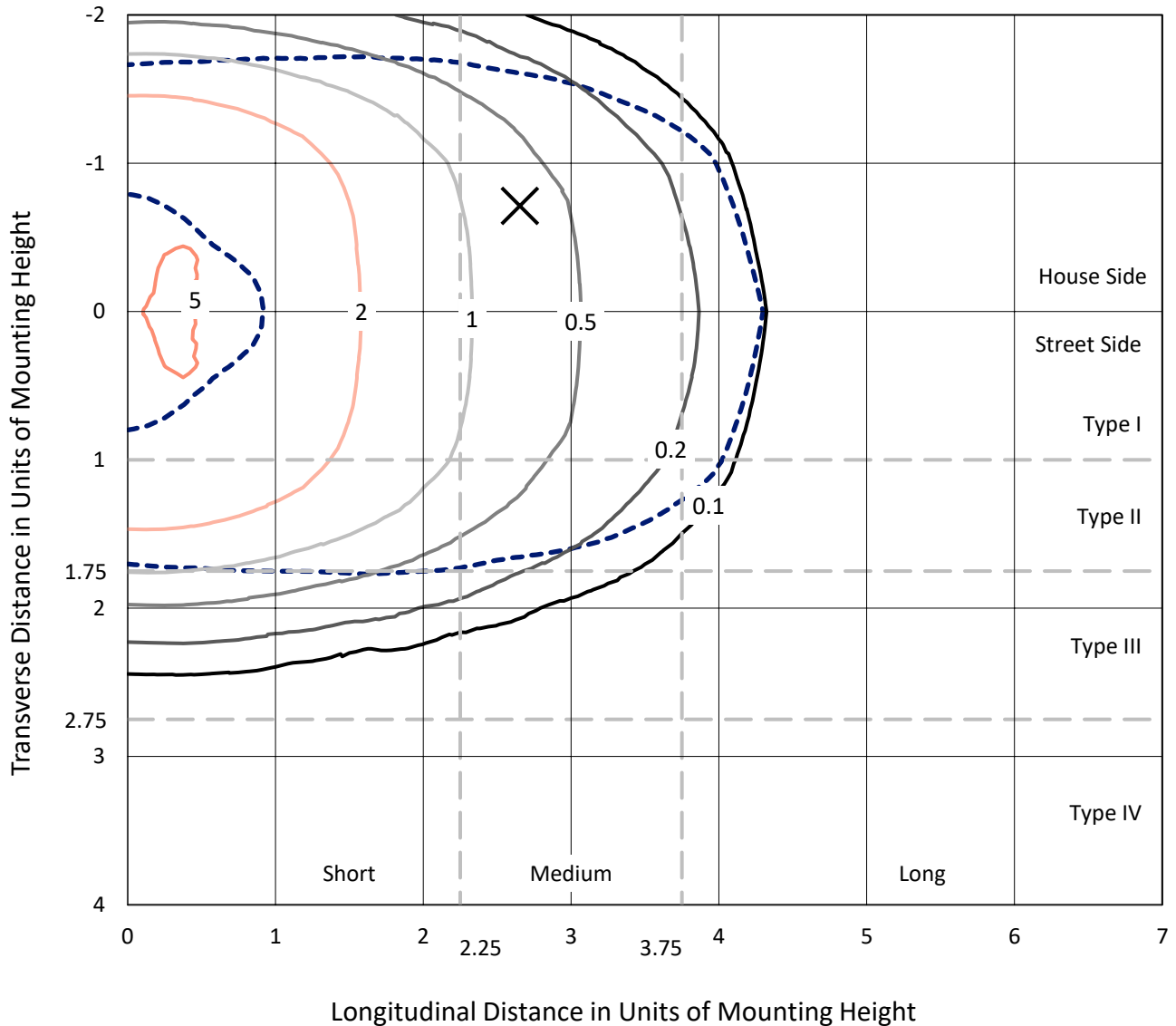
Lumens per Lamp: N/A
Luminaire Lumens: 41346.4 lumens
Efficiency: N/A
Efficacy: 129.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B5 - U0 - G5

Input Watts (W): 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

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Iso-Footcandle Lines of Horizontal Illumination

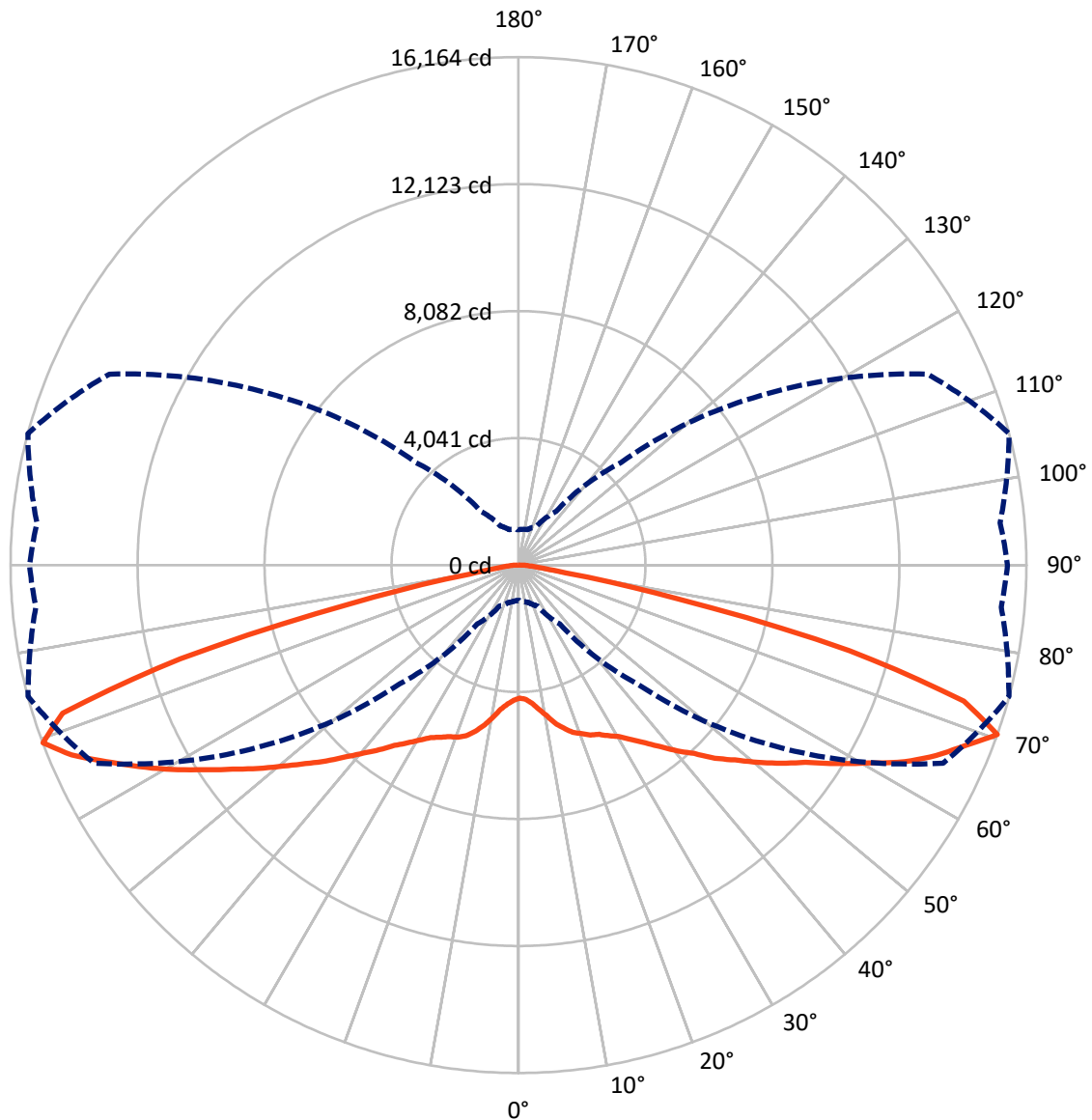
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.6 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	20526.1	0.0	20526.1
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	20820.3	0.0	20820.3
	% Fixture	50.4	0.0	50.4
Total	Lumens	41346.4	0.0	41346.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	421.4	1.0
10°-20°	1434.9	3.5
20°-30°	2778.4	6.7
30°-40°	4699.4	11.4
40°-50°	7496.9	18.1
50°-60°	10261.7	24.8
60°-70°	9672.3	23.4
70°-80°	4260.9	10.3
80°-90°	320.6	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°	41346.4	100.0
0°-180°	41346.4	100.0

Coefficient of Utilization

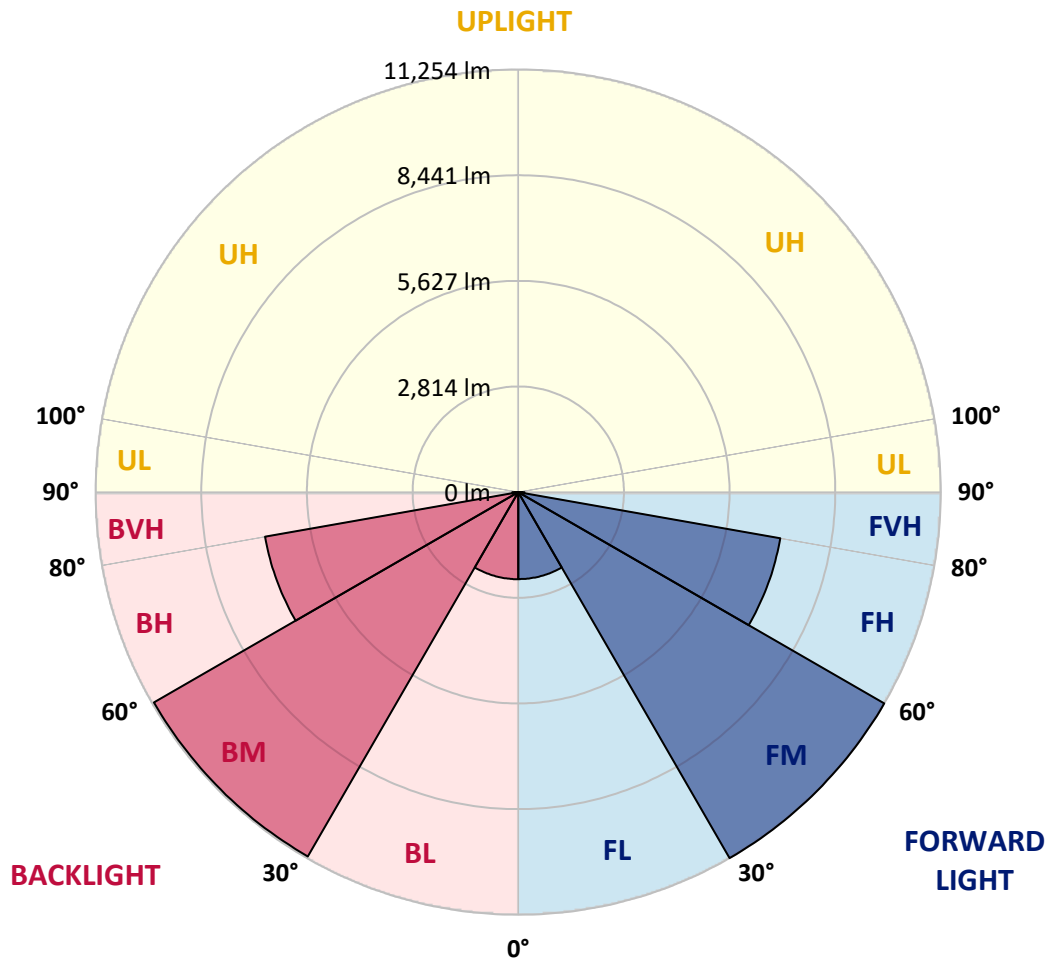


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2316.1	5.6			
FM (30°-60°)	11254.1	27.2			
FH (60°-80°)	7086.3	17.1			G3/7500
FVH (80°-90°)	163.8	0.4			G2/225
BL (0°-30°)	2318.6	5.6	B3/2500		
BM (30°-60°)	11203.8	27.1	B5		
BH (60°-80°)	6846.9	16.6	B5		G5
BVH (80°-90°)	156.8	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°	4233.8	4233.8	4233.8	4233.8	4233.8	4233.8	4233.8	4233.8	4233.8	4233.8	4233.8
2.5°	4207.1	4207.1	4202.6	4224.9	4247.2	4256.1	4273.9	4278.4	4305.1	4282.9	4327.4
5°	4193.7	4189.3	4224.9	4278.4	4278.4	4336.3	4372.0	4421.0	4434.4	4461.1	4470.0
7.5°	4287.3	4278.4	4260.6	4318.5	4367.5	4456.7	4505.7	4590.4	4621.6	4657.2	4697.3
10°	4345.3	4345.3	4327.4	4429.9	4474.5	4594.8	4701.8	4786.5	4906.8	4946.9	4951.4
12.5°	4354.2	4367.5	4421.0	4554.7	4679.5	4835.5	4915.7	5076.1	5196.5	5272.2	5299.0
15°	4487.9	4461.1	4519.1	4701.8	4884.5	5022.7	5165.3	5281.2	5455.0	5553.0	5615.4
17.5°	4608.2	4581.5	4688.4	4906.8	5094.0	5307.9	5432.7	5557.5	5682.3	5771.4	5775.8
20°	4799.8	4822.1	4915.7	5151.9	5397.0	5584.2	5726.8	5749.1	5811.5	5940.7	5918.5
22.5°	5036.0	5018.2	5214.3	5472.8	5740.2	5896.2	5976.4	5918.5	5887.3	6025.4	6056.6
25°	5272.2	5325.7	5504.0	5744.6	6065.5	6275.0	6297.3	6136.8	6021.0	6070.0	6056.6
27.5°	5633.2	5642.1	5829.3	6114.5	6439.9	6622.6	6609.2	6381.9	6159.1	6163.6	6172.5
30°	6096.7	6052.2	6257.2	6515.6	6836.5	7001.4	7023.7	6698.4	6399.8	6310.6	6332.9
32.5°	6542.4	6595.9	6774.1	7068.3	7304.5	7398.1	7349.0	7059.4	6671.6	6551.3	6564.7
35°	7112.8	7103.9	7349.0	7598.6	7776.9	7794.7	7754.6	7331.2	6965.8	6809.8	6747.4
37.5°	7723.4	7803.6	7964.1	8169.1	8356.3	8365.2	8146.8	7808.1	7358.0	7099.5	7175.2
40°	8405.3	8494.4	8610.3	8908.9	9047.0	8904.4	8681.6	8222.6	7754.6	7527.3	7563.0
42.5°	9006.9	9047.0	9283.2	9635.3	9702.2	9639.8	9310.0	8752.9	8209.2	7959.6	7977.4
45°	9559.6	9613.0	9920.5	10237.0	10393.0	10286.0	9902.7	9372.4	8739.5	8525.6	8440.9
47.5°	10067.6	10174.6	10473.2	10798.5	11039.2	11048.1	10575.7	9933.9	9265.4	8984.6	8980.2
50°	10410.8	10566.8	10860.9	11230.8	11582.9	11721.0	11248.6	10557.8	9840.3	9541.7	9510.5
52.5°	10598.0	10758.4	11052.5	11627.4	12019.6	12233.6	12010.7	11141.7	10513.3	10201.3	10152.3
55°	10370.7	10477.6	10958.9	11765.6	12371.7	12723.8	12576.7	11948.3	11181.8	10927.8	10972.3
57.5°	9403.6	9626.4	10219.1	11226.3	12362.8	13227.4	13214.0	12710.4	11952.8	11712.1	11721.0
60°	7741.2	7928.4	8659.3	10067.6	11863.7	13432.4	13904.8	13450.2	12817.4	12536.6	12527.7
62.5°	5463.9	5700.1	6546.8	8084.4	10393.0	13147.2	14698.1	14381.7	13664.1	13459.1	13534.9
65°	3057.3	3199.9	3984.3	5374.7	7919.5	11578.4	14840.7	15348.8	14524.3	14212.3	14225.7
67.5°	1635.6	1689.1	2054.5	2821.1	4844.4	8926.7	13401.2	15905.8	15455.7	14916.5	14831.8
70°	1123.1	1140.9	1234.5	1444.0	2290.7	5339.1	10107.7	14912.0	16155.4	15420.1	15562.7
72.5°	949.3	940.4	962.6	984.9	1198.8	2388.8	5931.8	11475.9	15250.7	14974.4	14920.9
75°	824.5	820.0	828.9	806.7	833.4	1051.8	2625.0	7153.0	11164.0	12460.8	12661.4
77.5°	681.9	686.3	690.8	668.5	659.6	695.2	1056.2	3142.0	5495.1	6065.5	6542.4
80°	517.0	525.9	561.5	539.3	503.6	508.1	623.9	1051.8	1577.7	1430.6	1475.2
82.5°	352.1	356.5	432.3	405.6	378.8	343.2	401.1	543.7	615.0	468.0	410.0
85°	249.6	245.1	280.8	258.5	240.7	173.8	240.7	307.5	369.9	231.7	209.5
87.5°	57.9	57.9	115.9	93.6	89.1	71.3	93.6	120.3	160.4	102.5	93.6
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°	4233.8	4233.8	4233.8	4233.8	4233.8	4233.8	4233.8	4233.8	4233.8	4233.8
2.5°	4314.1	4273.9	4273.9	4265.0	4229.4	4220.5	4189.3	4198.2	4175.9	4153.6
5°	4465.6	4412.1	4412.1	4336.3	4265.0	4256.1	4220.5	4220.5	4184.8	4193.7
7.5°	4675.0	4626.0	4545.8	4479.0	4380.9	4340.8	4273.9	4265.0	4256.1	4238.3
10°	4924.6	4862.2	4782.0	4643.8	4563.6	4487.9	4421.0	4327.4	4305.1	4309.6
12.5°	5263.3	5165.3	4991.5	4871.1	4768.6	4670.6	4572.5	4434.4	4403.2	4416.6
15°	5504.0	5379.2	5205.4	5160.8	5022.7	4902.3	4741.9	4585.9	4532.4	4519.1
17.5°	5700.1	5597.6	5495.1	5428.2	5316.8	5169.7	4946.9	4768.6	4648.3	4634.9
20°	5860.5	5726.8	5704.5	5744.6	5606.5	5508.4	5236.6	5018.2	4857.8	4790.9
22.5°	5958.6	5873.9	5936.3	5971.9	5963.0	5798.1	5517.4	5263.3	5062.8	5000.4
25°	6065.5	5967.5	6190.3	6310.6	6341.8	6070.0	5851.6	5517.4	5321.3	5281.2
27.5°	6119.0	6154.7	6413.1	6667.2	6644.9	6435.4	6141.3	5842.7	5686.7	5615.4
30°	6275.0	6332.9	6725.1	7010.3	7014.8	6809.8	6587.0	6248.2	6074.4	6043.2
32.5°	6555.8	6627.1	7046.0	7349.0	7402.5	7246.5	7023.7	6814.2	6636.0	6564.7
35°	6769.7	6952.4	7424.8	7701.1	7843.7	7750.1	7625.4	7407.0	7219.8	7157.4
37.5°	7077.2	7331.2	7785.8	8160.2	8320.6	8311.7	8218.1	7981.9	7825.9	7772.4
40°	7518.4	7772.4	8186.9	8681.6	8980.2	8966.8	8913.3	8730.6	8498.9	8472.1
42.5°	7986.3	8195.8	8735.1	9301.1	9728.9	9684.3	9541.7	9327.8	9167.4	9131.7
45°	8440.9	8766.3	9265.4	9991.9	10312.7	10424.1	10254.8	9889.3	9706.6	9684.3
47.5°	9011.4	9269.9	9893.8	10544.5	11021.3	11039.2	10749.5	10410.8	10076.5	10147.8
50°	9519.4	9862.6	10495.5	11208.5	11779.0	11574.0	11204.1	10780.7	10540.0	10446.4
52.5°	10063.2	10482.1	11217.4	11943.9	12260.3	12055.3	11453.6	10981.2	10615.8	10575.7
55°	10856.4	11074.8	12037.5	12594.5	12697.0	12264.8	11377.9	10709.4	10237.0	10121.1
57.5°	11663.1	11917.1	12759.4	13240.8	13133.8	12148.9	10887.6	9853.7	9234.2	9069.3
60°	12478.7	12790.6	13499.2	13940.5	13387.8	11351.1	9501.6	8169.1	7447.1	7300.0
62.5°	13387.8	13793.4	14426.2	14582.2	12634.7	9773.5	7540.7	5896.2	5165.3	4920.2
65°	14194.5	14609.0	15388.9	14448.5	11034.7	7291.1	4875.6	3369.2	2830.0	2633.9
67.5°	14858.5	15326.5	15709.8	12786.2	8079.9	4269.5	2540.3	1773.8	1573.2	1501.9
70°	15384.4	16164.3	14372.8	9399.1	4617.1	2081.3	1372.7	1167.6	1140.9	1123.1
72.5°	14925.4	14822.9	10731.7	5423.8	2023.3	1145.4	993.8	962.6	958.2	962.6
75°	12206.8	10887.6	6417.6	2357.6	1016.1	828.9	824.5	811.1	833.4	833.4
77.5°	5922.9	5178.6	2682.9	1011.7	668.5	650.7	673.0	673.0	673.0	673.0
80°	1372.7	1519.7	958.2	615.0	485.8	485.8	534.8	539.3	517.0	508.1
82.5°	468.0	623.9	525.9	387.7	320.9	361.0	405.6	414.5	343.2	347.6
85°	231.7	365.4	285.2	222.8	164.9	222.8	262.9	276.3	236.2	227.3
87.5°	107.0	160.4	107.0	75.8	57.9	80.2	75.8	62.4	35.7	35.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)