

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: P479357

Luminaire Tested: **IFLD-L-SA8B-740-U-5MQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479357
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8B-740-U-5MQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5MQ distribution lens
Light Source: (128) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

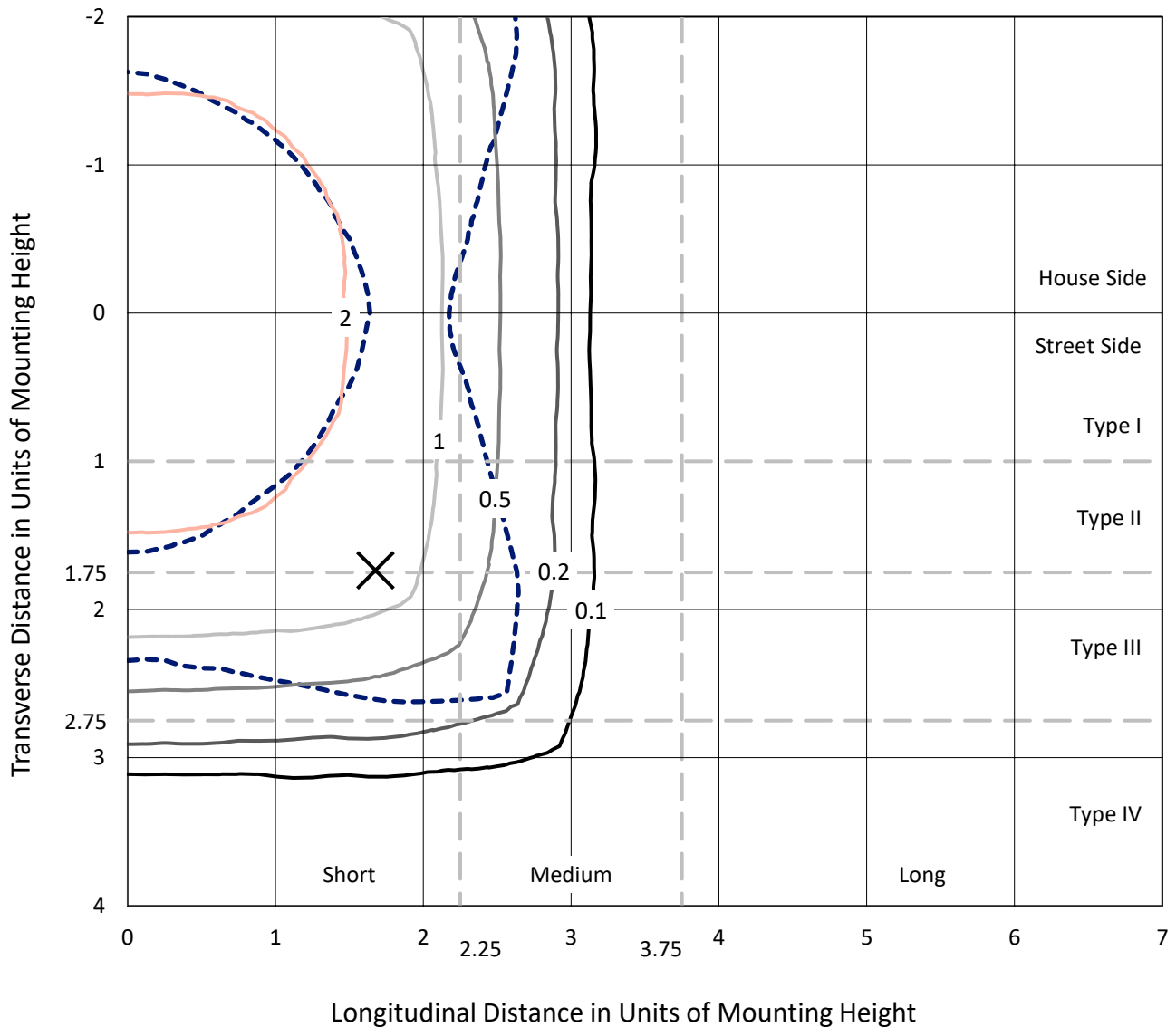
Lumens per Lamp: N/A
Luminaire Lumens: 41081.6 lumens
Efficiency: N/A
Efficacy: 128.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

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: P479357
 CATALOG NUMBER: IFLD-L-SA8B-740-U-5MQ

Iso-Footcandle Lines of Horizontal Illumination

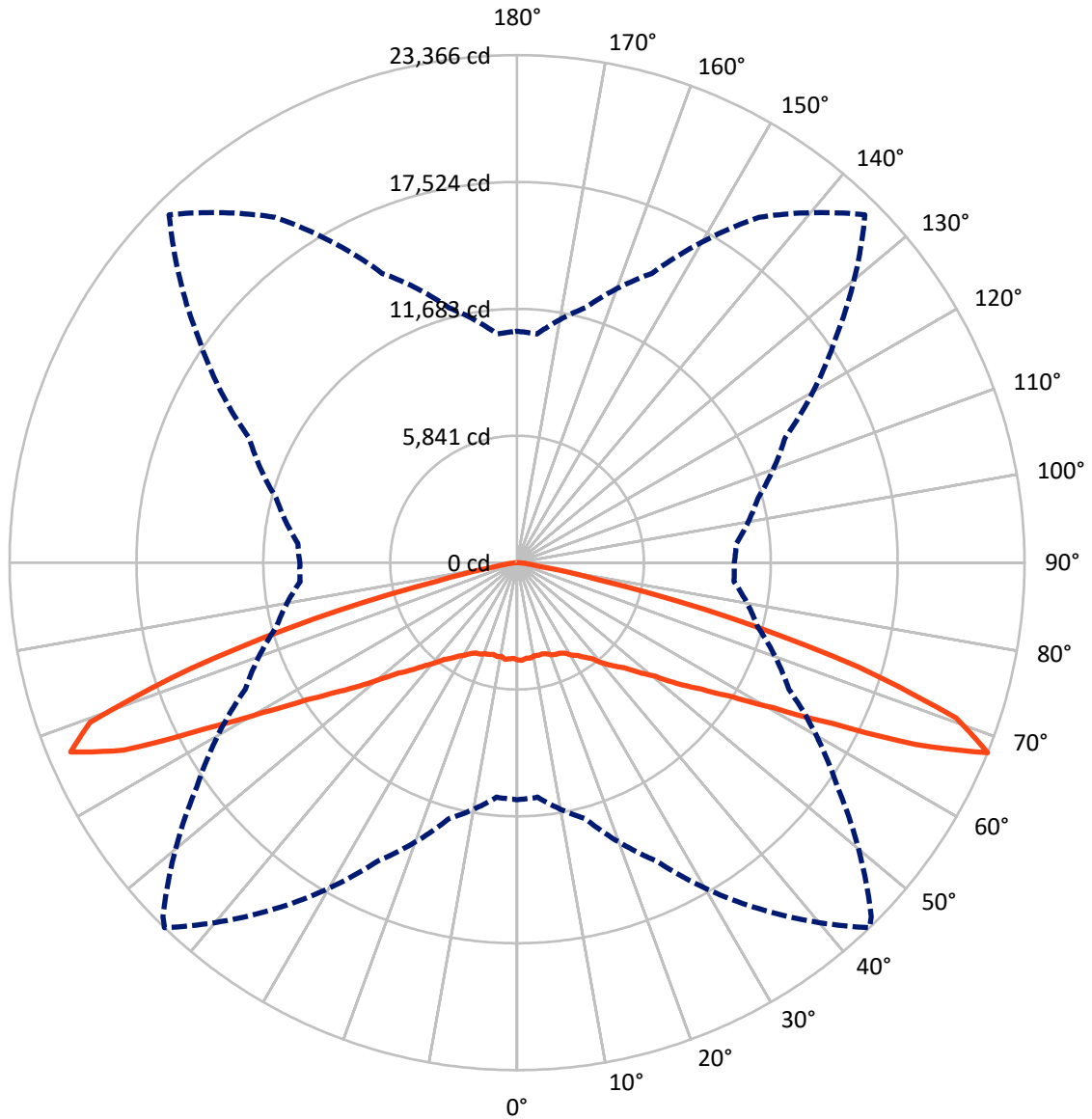
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5 fc
 Type V - Short - N/A

REPORT NUMBER: P479357
CATALOG NUMBER: IFLD-L-SA8B-740-U-5MQ

Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P479357

CATALOG NUMBER: IFLD-L-SA8B-740-U-5MQ

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	20488.2	0.0	20488.2
	% Fixture	49.9	0.0	49.9
Street Side	Lumens	20593.4	0.0	20593.4
	% Fixture	50.1	0.0	50.1
Total	Lumens	41081.6	0.0	41081.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	424.6	1.0
10°-20°	1240.6	3.0
20°-30°	2109.7	5.1
30°-40°	3345.0	8.1
40°-50°	5454.3	13.3
50°-60°	9315.3	22.7
60°-70°	14168.4	34.5
70°-80°	4775.6	11.6
80°-90°	247.9	0.6
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°	41081.6	100.0
0°-180°	41081.6	100.0

Coefficient of Utilization



REPORT NUMBER: P479357

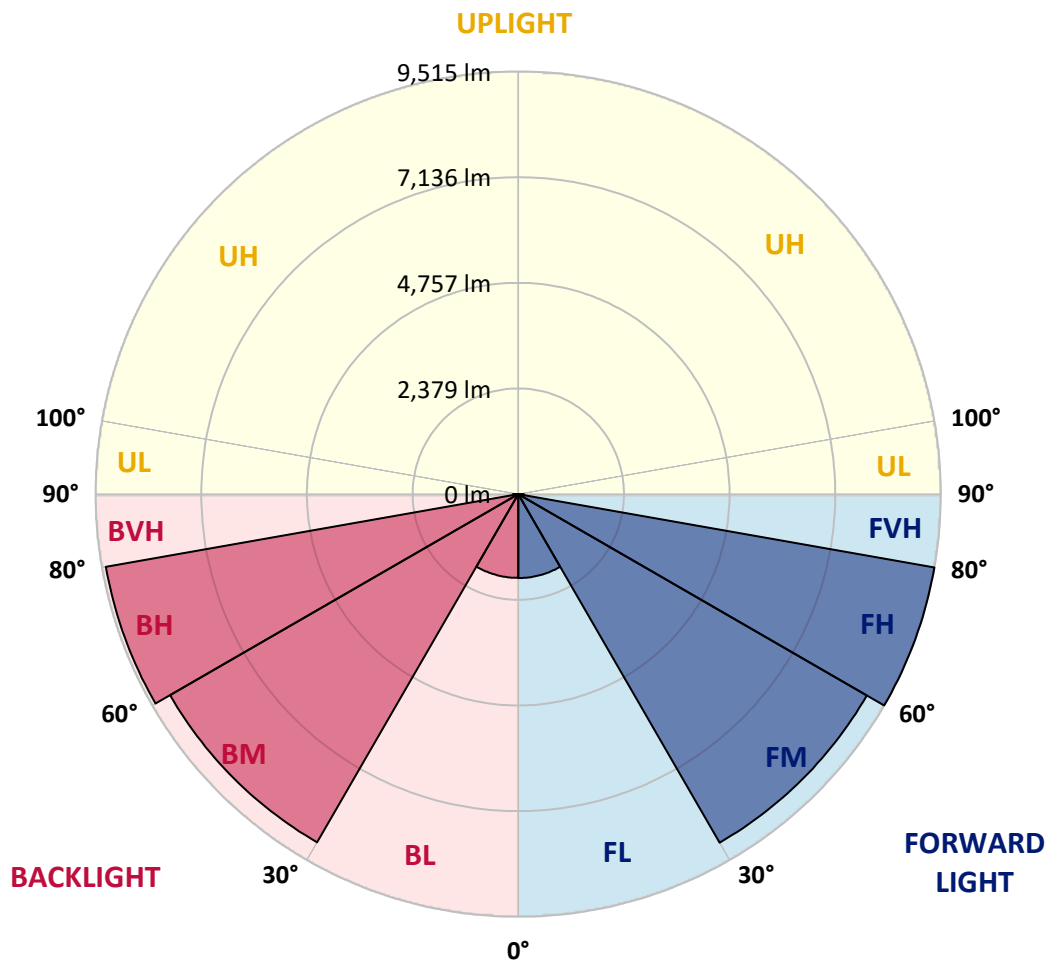
CATALOG NUMBER: IFLD-L-SA8B-740-U-5MQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1889.4	4.6			
FM (30°-60°)	9062.2	22.1			
FH (60°-80°)	9514.9	23.2			G4/12000
FVH (80°-90°)	126.8	0.3			G2/225
BL (0°-30°)	1885.5	4.6	B3/2500		
BM (30°-60°)	9052.4	22.0	B5		
BH (60°-80°)	9429.1	23.0	B5		G4/12000
BVH (80°-90°)	121.1	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G4

Type V Short





REPORT NUMBER: P479357
 CATALOG NUMBER: IFLD-L-SA8B-740-U-5MQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	4487.5	4487.5	4487.5	4487.5	4487.5	4487.5	4487.5	4487.5	4487.5	4487.5	4487.5
2.5°	4384.3	4435.9	4473.4	4468.7	4482.8	4496.8	4478.1	4506.2	4487.5	4520.3	4539.0
5°	4468.7	4454.6	4459.3	4431.2	4496.8	4421.8	4421.8	4459.3	4506.2	4449.9	4482.8
7.5°	4417.1	4407.7	4384.3	4426.5	4440.6	4440.6	4478.1	4407.7	4487.5	4506.2	4510.9
10°	4360.9	4309.3	4379.6	4421.8	4431.2	4356.2	4389.0	4407.7	4384.3	4407.7	4421.8
12.5°	4314.0	4342.1	4342.1	4342.1	4328.0	4379.6	4412.4	4407.7	4360.9	4403.1	4328.0
15°	4309.3	4295.2	4337.4	4374.9	4351.5	4360.9	4374.9	4417.1	4328.0	4346.8	4346.8
17.5°	4304.6	4323.3	4337.4	4332.7	4412.4	4412.4	4398.4	4370.2	4440.6	4403.1	4351.5
20°	4323.3	4309.3	4346.8	4360.9	4417.1	4529.7	4487.5	4464.0	4426.5	4379.6	4379.6
22.5°	4346.8	4337.4	4389.0	4449.9	4557.8	4585.9	4581.2	4553.1	4487.5	4431.2	4421.8
25°	4431.2	4346.8	4403.1	4520.3	4557.8	4614.1	4651.6	4614.1	4525.0	4539.0	4454.6
27.5°	4557.8	4543.7	4618.8	4698.5	4665.6	4717.2	4684.4	4712.5	4717.2	4646.9	4562.5
30°	4707.8	4665.6	4712.5	4867.3	4881.3	4937.6	4881.3	4806.3	4829.8	4768.8	4726.6
32.5°	4923.5	4909.5	4998.6	5101.7	5120.5	5092.3	5064.2	5106.4	5007.9	4961.1	4886.0
35°	5064.2	5125.2	5233.0	5312.7	5373.7	5345.6	5359.6	5317.4	5340.9	5242.4	5209.6
37.5°	5481.5	5458.1	5481.5	5617.5	5631.6	5617.5	5631.6	5678.5	5645.7	5561.3	5476.9
40°	5875.4	5837.9	5894.2	6048.9	6039.5	6086.4	5992.7	6044.2	6044.2	5884.8	5852.0
42.5°	6170.8	6297.4	6363.1	6489.7	6536.6	6494.4	6475.6	6485.0	6588.2	6400.6	6330.3
45°	6780.4	6775.7	6972.7	7043.0	6911.7	6902.3	6864.8	6977.4	7047.7	6939.8	6911.7
47.5°	7441.6	7474.4	7586.9	7615.1	7694.8	7549.4	7549.4	7563.5	7812.0	7558.8	7427.5
50°	8037.1	8079.3	8304.4	8524.8	8374.7	8220.0	8280.9	8356.0	8491.9	8252.8	8140.3
52.5°	8759.2	8989.0	9139.0	9256.3	9364.1	9256.3	9115.6	9200.0	9467.3	9148.4	9007.7
55°	9800.2	9983.1	10123.7	10339.4	10428.5	10283.2	10269.1	10259.7	10409.8	10072.2	9879.9
57.5°	10963.1	10888.1	11113.1	11446.1	11769.6	11628.9	11586.7	11596.1	11633.6	11155.3	11010.0
60°	12407.3	12491.7	12759.0	13049.7	13392.0	13589.0	13312.3	13152.9	13185.7	12533.9	12308.9
62.5°	13232.6	13420.2	14025.1	15023.8	15713.1	16327.4	16369.6	15333.3	14639.3	13373.3	12416.7
65°	12834.0	12805.9	13945.3	15792.8	18404.7	20191.2	19923.9	17410.6	14986.3	12974.7	11689.9
67.5°	10916.2	10841.2	12219.8	15150.4	19464.4	23365.7	23060.9	17996.7	13814.1	11478.9	10025.3
70°	7033.6	7014.9	8510.7	11549.2	17377.8	21452.6	21565.1	16346.2	11244.4	8407.5	6968.0
72.5°	2555.6	2710.3	3577.8	6208.4	11802.4	16411.8	16482.1	12102.5	6466.3	3887.3	2865.0
75°	942.5	970.6	1130.1	2016.3	5378.4	10076.8	10339.4	5870.7	2297.7	1266.1	1031.6
77.5°	543.9	548.6	604.9	750.3	1594.3	3934.1	4093.6	1781.9	890.9	675.2	623.6
80°	370.4	365.7	426.7	487.7	637.7	1116.0	1186.3	745.6	562.7	468.9	393.9
82.5°	215.7	229.8	314.2	347.0	389.2	492.4	501.7	464.2	422.0	347.0	257.9
85°	131.3	107.8	173.5	192.3	225.1	220.4	220.4	253.2	272.0	243.8	145.4
87.5°	32.8	32.8	42.2	46.9	61.0	46.9	51.6	98.5	131.3	121.9	75.0
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: P479357
 CATALOG NUMBER: IFLD-L-SA8B-740-U-5MQ

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4487.5	4487.5	4487.5	4487.5	4487.5	4487.5	4487.5	4487.5	4487.5	4487.5	4487.5
2.5°	4496.8	4482.8	4492.1	4543.7	4510.9	4412.4	4435.9	4487.5	4445.3	4421.8	4417.1
5°	4478.1	4506.2	4473.4	4482.8	4515.6	4435.9	4449.9	4515.6	4487.5	4496.8	4445.3
7.5°	4482.8	4496.8	4468.7	4426.5	4426.5	4492.1	4454.6	4464.0	4421.8	4492.1	4398.4
10°	4454.6	4417.1	4384.3	4407.7	4398.4	4379.6	4365.5	4393.7	4351.5	4412.4	4346.8
12.5°	4370.2	4379.6	4370.2	4360.9	4379.6	4426.5	4351.5	4360.9	4295.2	4304.6	4337.4
15°	4337.4	4365.5	4356.2	4407.7	4431.2	4360.9	4417.1	4360.9	4309.3	4281.1	4332.7
17.5°	4351.5	4393.7	4379.6	4417.1	4374.9	4426.5	4435.9	4412.4	4351.5	4328.0	4351.5
20°	4365.5	4351.5	4370.2	4435.9	4496.8	4445.3	4445.3	4431.2	4374.9	4342.1	4342.1
22.5°	4398.4	4374.9	4403.1	4454.6	4473.4	4553.1	4482.8	4449.9	4356.2	4271.8	4351.5
25°	4464.0	4478.1	4496.8	4478.1	4581.2	4571.9	4562.5	4539.0	4393.7	4398.4	4384.3
27.5°	4590.6	4510.9	4534.3	4646.9	4661.0	4698.5	4651.6	4693.8	4539.0	4543.7	4449.9
30°	4745.4	4661.0	4736.0	4834.4	4829.8	4900.1	4876.7	4886.0	4778.2	4717.2	4590.6
32.5°	4914.2	4904.8	4951.7	5012.6	5036.1	5073.6	5068.9	5068.9	5003.3	4843.8	4867.3
35°	5101.7	5167.4	5223.6	5289.3	5298.7	5345.6	5279.9	5289.3	5223.6	5106.4	5143.9
37.5°	5472.2	5467.5	5528.4	5608.1	5617.5	5580.0	5631.6	5608.1	5519.1	5439.3	5378.4
40°	5903.6	5809.8	5866.0	6053.6	6067.7	6002.0	5997.3	5992.7	5927.0	5753.5	5716.0
42.5°	6278.7	6400.6	6391.2	6452.2	6410.0	6377.2	6494.4	6428.7	6377.2	6194.3	6161.5
45°	6761.7	6799.2	6921.1	7118.0	6916.4	6916.4	6996.1	6944.5	6916.4	6780.4	6653.8
47.5°	7361.9	7394.7	7638.5	7652.6	7521.3	7432.2	7680.7	7690.1	7572.9	7469.7	7315.0
50°	8065.2	8079.3	8299.7	8524.8	8379.4	8210.6	8463.8	8562.3	8299.7	8159.0	7966.8
52.5°	8838.9	8796.7	8979.6	9401.6	9260.9	9209.4	9481.3	9504.8	9148.4	8928.0	8979.6
55°	9729.9	9673.6	10170.6	10456.7	10367.6	10273.8	10395.7	10452.0	10165.9	9804.9	9931.5
57.5°	10883.4	10911.5	11160.0	11441.4	11586.7	11610.2	11666.5	11610.2	11319.5	10953.7	10836.5
60°	12036.9	12121.3	12604.3	13134.1	13181.0	13593.7	13518.6	13237.3	12824.7	12304.2	12327.6
62.5°	12463.6	12393.3	13171.6	14465.8	15567.8	16322.7	15989.8	14991.0	14034.4	13087.2	13157.6
65°	11605.5	11779.0	12838.7	14864.4	17255.8	20242.8	18470.3	15708.4	13776.5	12552.7	12416.7
67.5°	10001.8	10133.1	11478.9	13617.1	17860.7	22653.0	19408.1	14695.6	12149.4	10564.5	10648.9
70°	6968.0	7033.6	8351.3	11155.3	16196.1	21377.6	17509.1	11286.6	8388.8	6686.6	6780.4
72.5°	2804.1	2963.5	3831.0	6719.5	11957.2	16243.0	11788.4	5922.3	3479.3	2588.4	2349.2
75°	1036.3	1041.0	1223.9	2311.7	5678.5	10208.1	5317.4	1903.8	1111.3	909.7	867.5
77.5°	600.2	595.5	637.7	834.7	1645.9	3985.7	1509.9	745.6	604.9	543.9	520.5
80°	375.1	370.4	436.1	553.3	722.1	1092.6	637.7	464.2	408.0	351.7	351.7
82.5°	239.1	243.8	342.3	408.0	440.8	483.0	370.4	328.2	304.8	201.6	196.9
85°	154.7	140.7	239.1	272.0	243.8	215.7	206.3	173.5	159.4	98.5	107.8
87.5°	70.3	75.0	121.9	136.0	89.1	51.6	51.6	37.5	37.5	23.4	23.4
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)