

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: P479274

Luminaire Tested: **IFLD-L-SA7B-730-U-5MQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479274
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7B-730-U-5MQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5MQ distribution lens
Light Source: (112) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

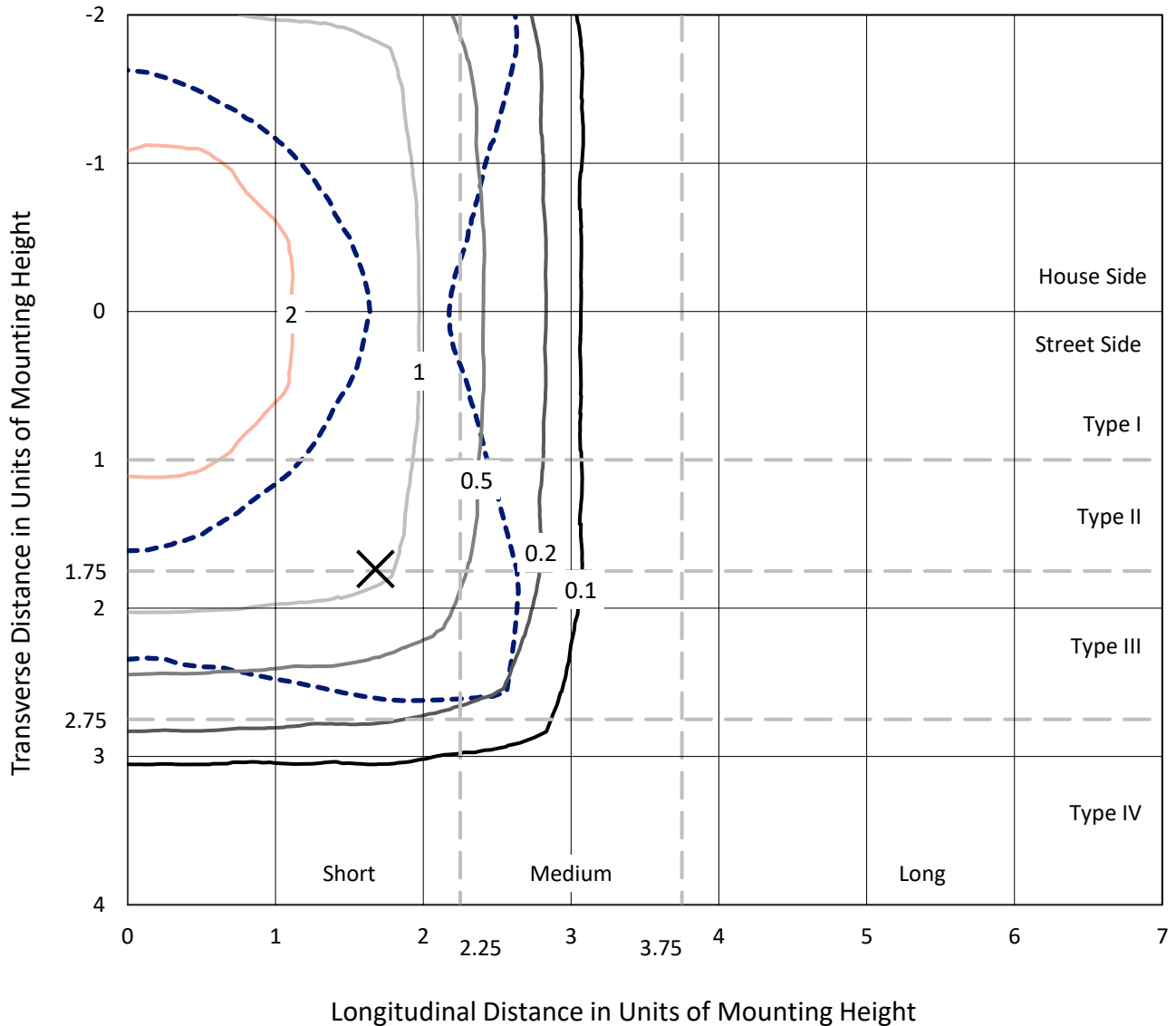
Lumens per Lamp: N/A
Luminaire Lumens: 32733.5 lumens
Efficiency: N/A
Efficacy: 116.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

Input Watts (W): 281
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

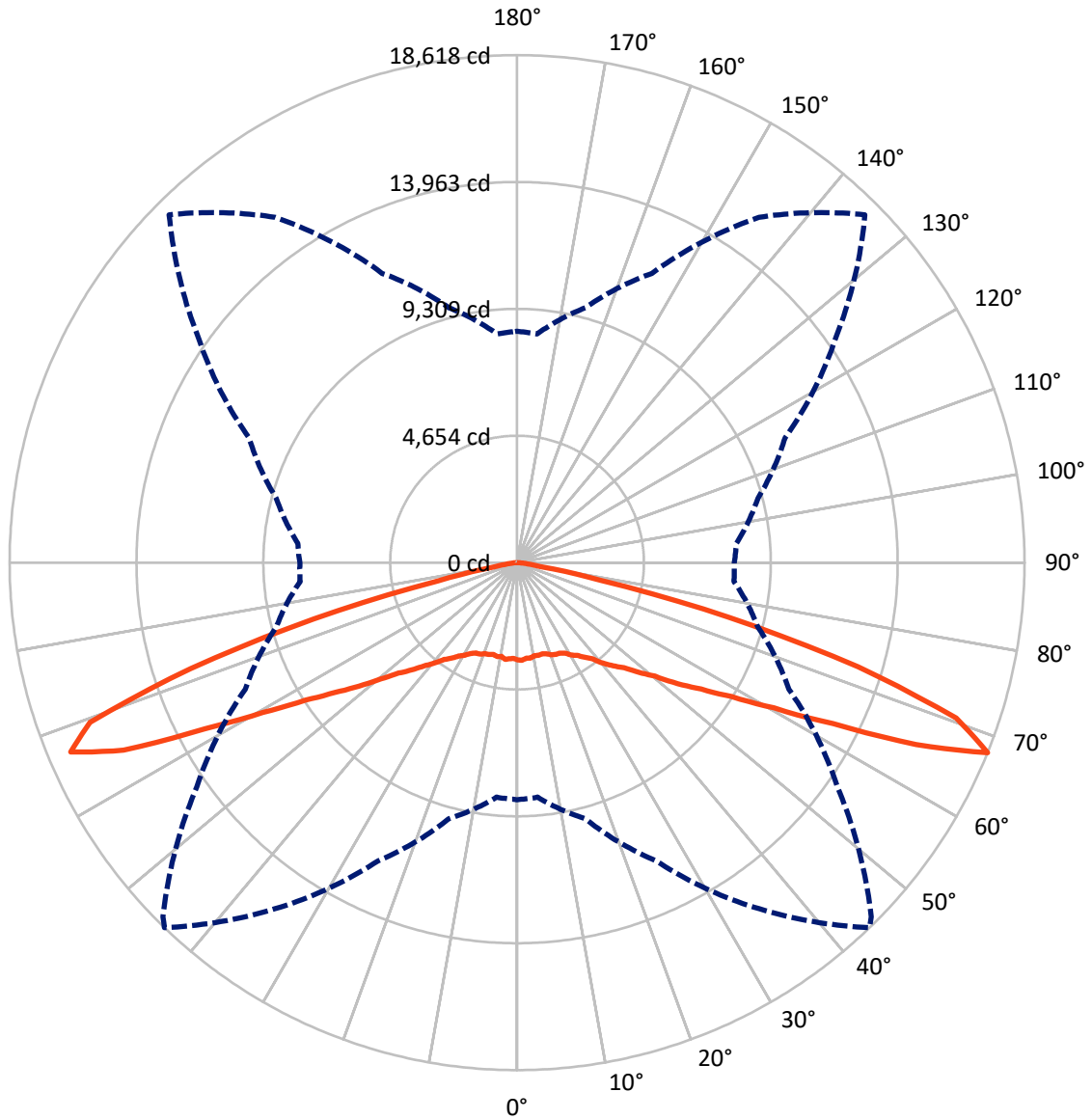
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16324.8	0.0	16324.8
	% Fixture	49.9	0.0	49.9
Street Side	Lumens	16408.6	0.0	16408.6
	% Fixture	50.1	0.0	50.1
Total	Lumens	32733.5	0.0	32733.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	338.4	1.0
10°-20°	988.5	3.0
20°-30°	1681.0	5.1
30°-40°	2665.3	8.1
40°-50°	4346.0	13.3
50°-60°	7422.3	22.7
60°-70°	11289.3	34.5
70°-80°	3805.2	11.6
80°-90°	197.6	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°	32733.5	100.0
0°-180°	32733.5	100.0

Coefficient of Utilization



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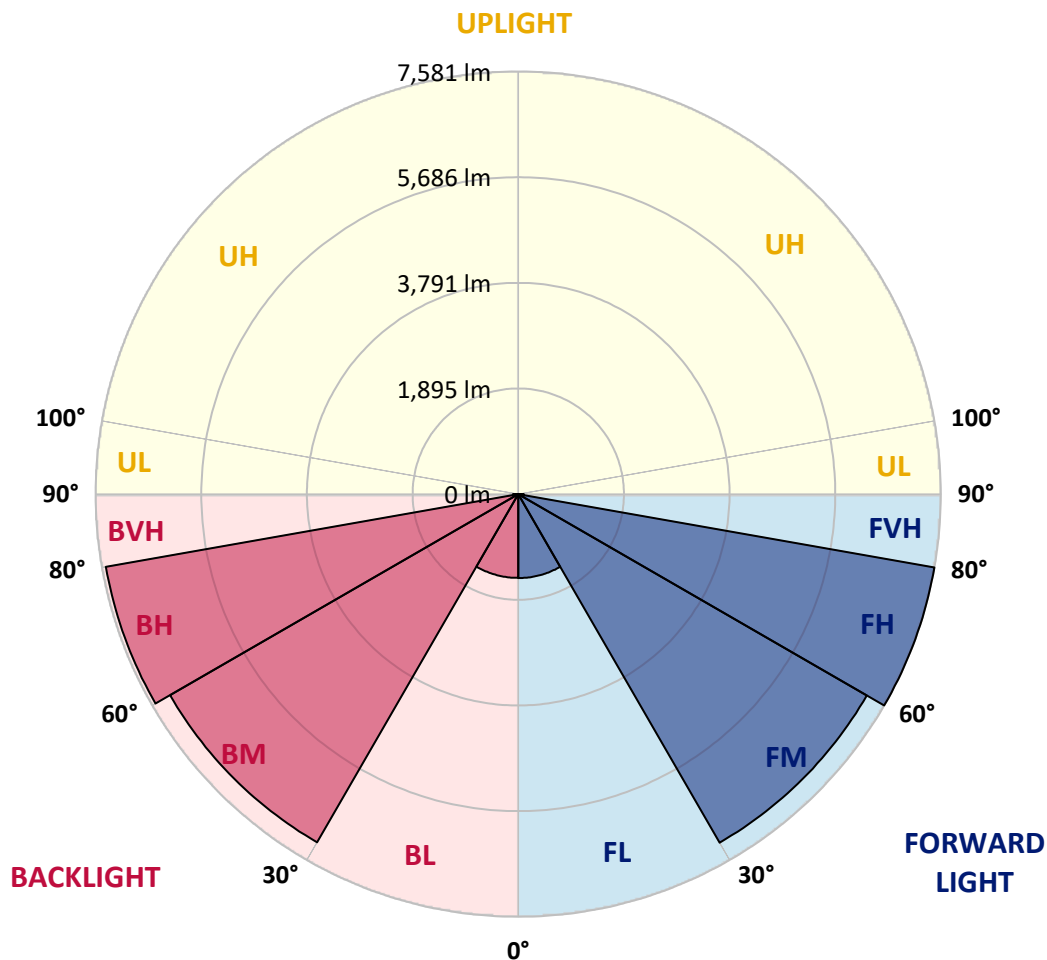
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1505.5	4.6			
FM (30°-60°)	7220.7	22.1			
FH (60°-80°)	7581.4	23.2			G4/12000
FVH (80°-90°)	101.1	0.3			G2/225
BL (0°-30°)	1502.4	4.6	B3/2500		
BM (30°-60°)	7212.9	22.0	B4/8500		
BH (60°-80°)	7513.1	23.0	B5		G4/12000
BVH (80°-90°)	96.5	0.3			G1/100
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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	3575.6	3575.6	3575.6	3575.6	3575.6	3575.6	3575.6	3575.6	3575.6	3575.6	3575.6
2.5°	3493.4	3534.5	3564.4	3560.6	3571.8	3583.0	3568.1	3590.5	3575.6	3601.7	3616.7
5°	3560.6	3549.4	3553.1	3530.7	3583.0	3523.3	3523.3	3553.1	3590.5	3545.7	3571.8
7.5°	3519.5	3512.1	3493.4	3527.0	3538.2	3538.2	3568.1	3512.1	3575.6	3590.5	3594.2
10°	3474.7	3433.6	3489.6	3523.3	3530.7	3471.0	3497.1	3512.1	3493.4	3512.1	3523.3
12.5°	3437.3	3459.7	3459.7	3459.7	3448.5	3489.6	3515.8	3512.1	3474.7	3508.3	3448.5
15°	3433.6	3422.4	3456.0	3485.9	3467.2	3474.7	3485.9	3519.5	3448.5	3463.5	3463.5
17.5°	3429.9	3444.8	3456.0	3452.3	3515.8	3515.8	3504.6	3482.2	3538.2	3508.3	3467.2
20°	3444.8	3433.6	3463.5	3474.7	3519.5	3609.2	3575.6	3556.9	3527.0	3489.6	3489.6
22.5°	3463.5	3456.0	3497.1	3545.7	3631.6	3654.0	3650.3	3627.9	3575.6	3530.7	3523.3
25°	3530.7	3463.5	3508.3	3601.7	3631.6	3676.4	3706.3	3676.4	3605.5	3616.7	3549.4
27.5°	3631.6	3620.4	3680.2	3743.7	3717.5	3758.6	3732.5	3754.9	3758.6	3702.6	3635.3
30°	3751.2	3717.5	3754.9	3878.2	3889.4	3934.2	3889.4	3829.6	3848.3	3799.7	3766.1
32.5°	3923.0	3911.8	3982.8	4065.0	4080.0	4057.5	4035.1	4068.7	3990.3	3952.9	3893.1
35°	4035.1	4083.7	4169.6	4233.1	4281.7	4259.3	4270.5	4236.9	4255.6	4177.1	4150.9
37.5°	4367.6	4349.0	4367.6	4476.0	4487.2	4476.0	4487.2	4524.6	4498.4	4431.2	4363.9
40°	4681.5	4651.6	4696.4	4819.7	4812.3	4849.6	4774.9	4816.0	4816.0	4689.0	4662.8
42.5°	4916.9	5017.7	5070.1	5170.9	5208.3	5174.7	5159.7	5167.2	5249.4	5099.9	5043.9
45°	5402.6	5398.8	5555.8	5611.8	5507.2	5499.7	5469.8	5559.5	5615.5	5529.6	5507.2
47.5°	5929.4	5955.5	6045.2	6067.6	6131.1	6015.3	6015.3	6026.5	6224.6	6022.8	5918.2
50°	6403.9	6437.5	6616.9	6792.5	6672.9	6549.6	6598.2	6658.0	6766.3	6575.8	6486.1
52.5°	6979.3	7162.3	7281.9	7375.3	7461.2	7375.3	7263.2	7330.5	7543.4	7289.4	7177.3
55°	7808.7	7954.4	8066.5	8238.4	8309.4	8193.5	8182.3	8174.9	8294.4	8025.4	7872.2
57.5°	8735.3	8675.5	8854.9	9120.1	9377.9	9265.8	9232.2	9239.7	9269.6	8888.5	8772.7
60°	9886.1	9953.3	10166.3	10397.9	10670.7	10827.6	10607.1	10480.1	10506.3	9986.9	9807.6
62.5°	10543.6	10693.1	11175.0	11970.9	12520.1	13009.5	13043.2	12217.5	11664.5	10655.7	9893.5
65°	10226.0	10203.6	11111.5	12583.6	14664.7	16088.2	15875.2	13872.6	11941.0	10338.1	9314.4
67.5°	8697.9	8638.2	9736.6	12071.7	15509.1	18617.6	18374.8	14339.6	11006.9	9146.3	7988.0
70°	5604.3	5589.4	6781.2	9202.3	13846.4	17093.2	17182.9	13024.5	8959.5	6699.1	5552.0
72.5°	2036.2	2159.5	2850.7	4946.8	9404.1	13076.8	13132.8	9643.2	5152.3	3097.3	2282.8
75°	751.0	773.4	900.4	1606.6	4285.4	8029.1	8238.4	4677.8	1830.8	1008.8	822.0
77.5°	433.4	437.1	482.0	597.8	1270.3	3134.7	3261.7	1419.8	709.9	538.0	496.9
80°	295.2	291.4	340.0	388.6	508.1	889.2	945.3	594.1	448.3	373.6	313.8
82.5°	171.9	183.1	250.3	276.5	310.1	392.3	399.8	369.9	336.3	276.5	205.5
85°	104.6	85.9	138.2	153.2	179.3	175.6	175.6	201.8	216.7	194.3	115.8
87.5°	26.2	26.2	33.6	37.4	48.6	37.4	41.1	78.5	104.6	97.1	59.8
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3575.6	3575.6	3575.6	3575.6	3575.6	3575.6	3575.6	3575.6	3575.6	3575.6	3575.6
2.5°	3583.0	3571.8	3579.3	3620.4	3594.2	3515.8	3534.5	3575.6	3541.9	3523.3	3519.5
5°	3568.1	3590.5	3564.4	3571.8	3598.0	3534.5	3545.7	3598.0	3575.6	3583.0	3541.9
7.5°	3571.8	3583.0	3560.6	3527.0	3527.0	3579.3	3549.4	3556.9	3523.3	3579.3	3504.6
10°	3549.4	3519.5	3493.4	3512.1	3504.6	3489.6	3478.4	3500.8	3467.2	3515.8	3463.5
12.5°	3482.2	3489.6	3482.2	3474.7	3489.6	3527.0	3467.2	3474.7	3422.4	3429.9	3456.0
15°	3456.0	3478.4	3471.0	3512.1	3530.7	3474.7	3519.5	3474.7	3433.6	3411.2	3452.3
17.5°	3467.2	3500.8	3489.6	3519.5	3485.9	3527.0	3534.5	3515.8	3467.2	3448.5	3467.2
20°	3478.4	3467.2	3482.2	3534.5	3583.0	3541.9	3541.9	3530.7	3485.9	3459.7	3459.7
22.5°	3504.6	3485.9	3508.3	3549.4	3564.4	3627.9	3571.8	3545.7	3471.0	3403.7	3467.2
25°	3556.9	3568.1	3583.0	3568.1	3650.3	3642.8	3635.3	3616.7	3500.8	3504.6	3493.4
27.5°	3657.8	3594.2	3612.9	3702.6	3713.8	3743.7	3706.3	3740.0	3616.7	3620.4	3545.7
30°	3781.1	3713.8	3773.6	3852.0	3848.3	3904.4	3885.7	3893.1	3807.2	3758.6	3657.8
32.5°	3915.6	3908.1	3945.5	3994.0	4012.7	4042.6	4038.9	4038.9	3986.6	3859.5	3878.2
35°	4065.0	4117.3	4162.2	4214.5	4221.9	4259.3	4207.0	4214.5	4162.2	4068.7	4098.6
37.5°	4360.2	4356.4	4405.0	4468.5	4476.0	4446.1	4487.2	4468.5	4397.5	4334.0	4285.4
40°	4703.9	4629.2	4674.0	4823.5	4834.7	4782.4	4778.6	4774.9	4722.6	4584.3	4554.5
42.5°	5002.8	5099.9	5092.5	5141.0	5107.4	5081.3	5174.7	5122.4	5081.3	4935.6	4909.4
45°	5387.6	5417.5	5514.7	5671.6	5510.9	5510.9	5574.4	5533.3	5510.9	5402.6	5301.7
47.5°	5865.9	5892.0	6086.3	6097.5	5992.9	5921.9	6119.9	6127.4	6034.0	5951.8	5828.5
50°	6426.3	6437.5	6613.1	6792.5	6676.6	6542.1	6743.9	6822.3	6613.1	6501.0	6347.8
52.5°	7042.8	7009.2	7154.9	7491.1	7379.0	7337.9	7554.6	7573.3	7289.4	7113.8	7154.9
55°	7752.7	7707.8	8103.9	8331.8	8260.8	8186.1	8283.2	8328.0	8100.1	7812.4	7913.3
57.5°	8671.8	8694.2	8892.2	9116.4	9232.2	9250.9	9295.7	9250.9	9019.2	8727.8	8634.4
60°	9590.9	9658.1	10043.0	10465.2	10502.5	10831.3	10771.5	10547.4	10218.6	9803.9	9822.5
62.5°	9930.9	9874.8	10495.1	11526.3	12404.3	13005.8	12740.5	11944.7	11182.5	10427.8	10483.8
65°	9247.2	9385.4	10229.8	11843.8	13749.3	16129.3	14717.0	12516.4	10977.0	10001.9	9893.5
67.5°	7969.4	8074.0	9146.3	10850.0	14231.3	18049.7	15464.2	11709.3	9680.6	8417.7	8485.0
70°	5552.0	5604.3	6654.2	8888.5	12904.9	17033.4	13951.1	8993.1	6684.1	5327.9	5402.6
72.5°	2234.3	2361.3	3052.5	5354.0	9527.4	12942.3	9392.9	4718.9	2772.3	2062.4	1871.8
75°	825.7	829.4	975.2	1842.0	4524.6	8133.8	4236.9	1516.9	885.5	724.8	691.2
77.5°	478.2	474.5	508.1	665.0	1311.4	3175.8	1203.1	594.1	482.0	433.4	414.7
80°	298.9	295.2	347.5	440.9	575.4	870.5	508.1	369.9	325.1	280.2	280.2
82.5°	190.5	194.3	272.7	325.1	351.2	384.8	295.2	261.5	242.9	160.7	156.9
85°	123.3	112.1	190.5	216.7	194.3	171.9	164.4	138.2	127.0	78.5	85.9
87.5°	56.0	59.8	97.1	108.4	71.0	41.1	41.1	29.9	29.9	18.7	18.7
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)