

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: P478845

Luminaire Tested: **IFLD-L-SA7B-727-U-5NQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478845
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7B-727-U-5NQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5NQ distribution lens
Light Source: (112) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

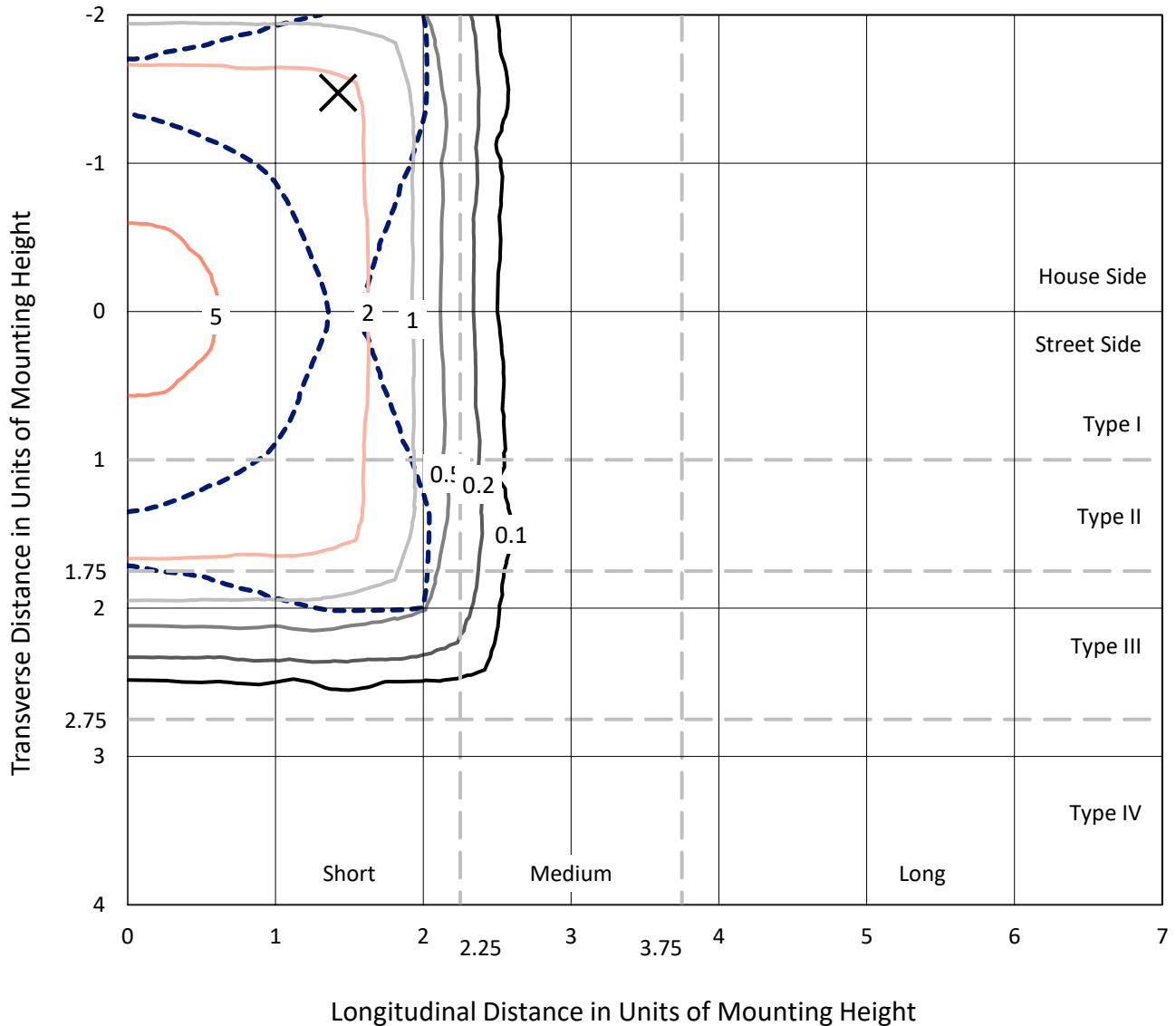
Lumens per Lamp: N/A
Luminaire Lumens: 29704.2 lumens
Efficiency: N/A
Efficacy: 105.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G2

Input Watts (W): 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

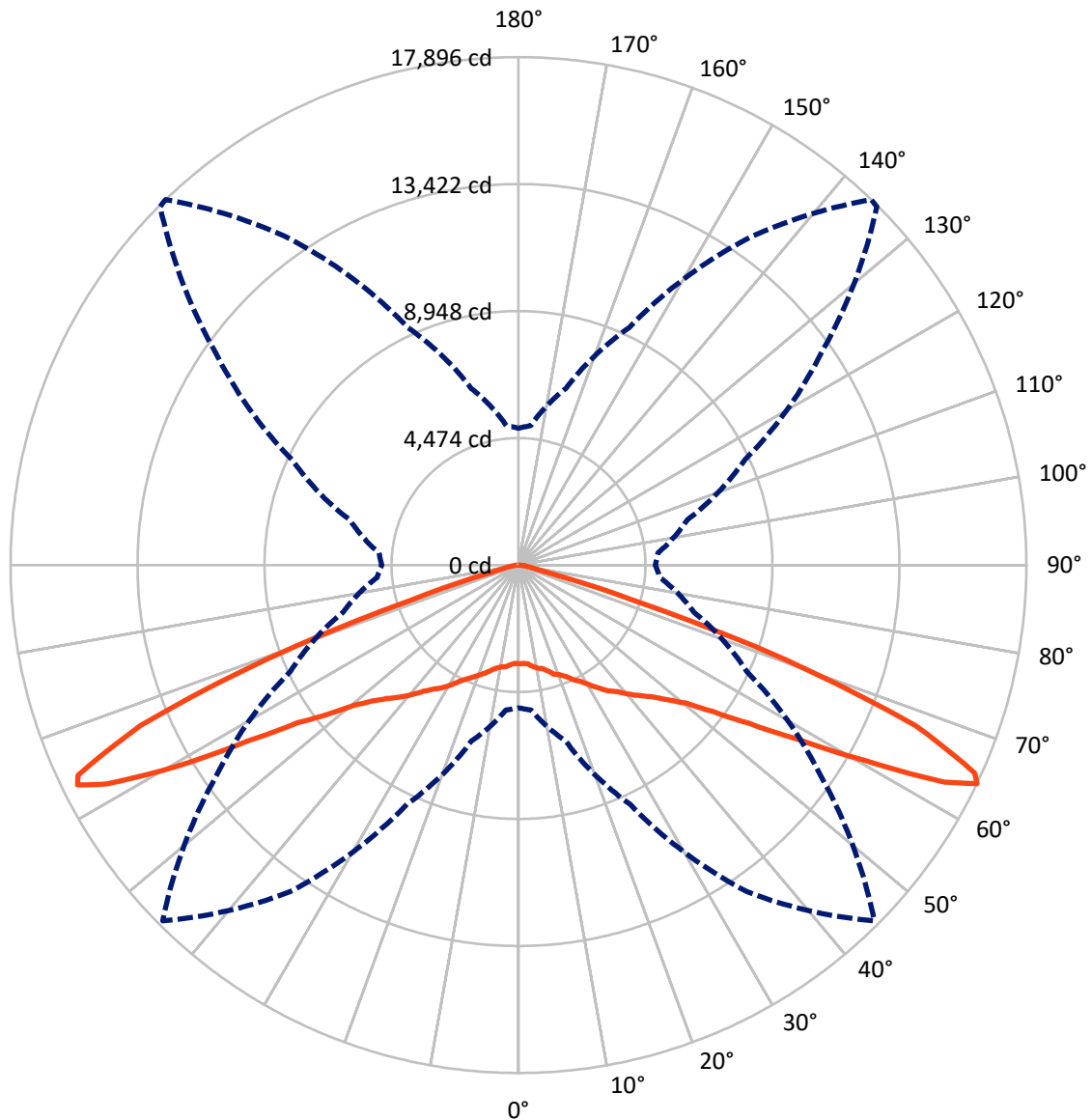
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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

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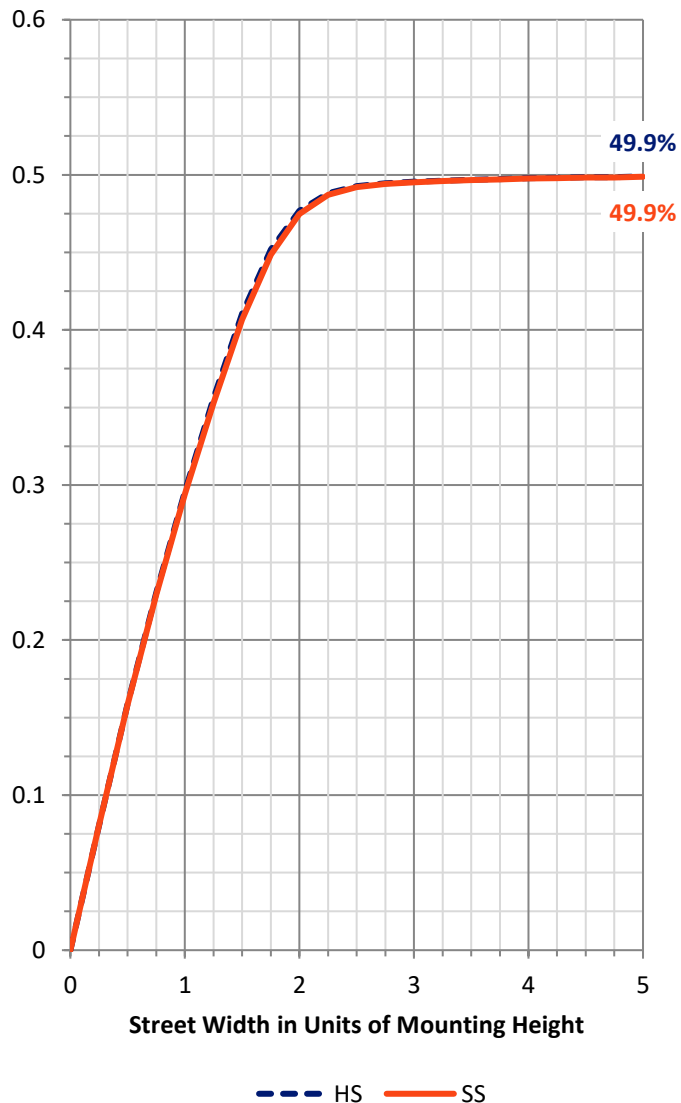
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14866.2	0.0	14866.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14837.9	0.0	14837.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	29704.2	0.0	29704.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	341.7	1.2
10°-20°	1101.4	3.7
20°-30°	2069.9	7.0
30°-40°	3413.6	11.5
40°-50°	5338.6	18.0
50°-60°	8625.9	29.0
60°-70°	7767.1	26.1
70°-80°	920.1	3.1
80°-90°	125.9	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°	29704.2	100.0
0°-180°	29704.2	100.0

Coefficient of Utilization



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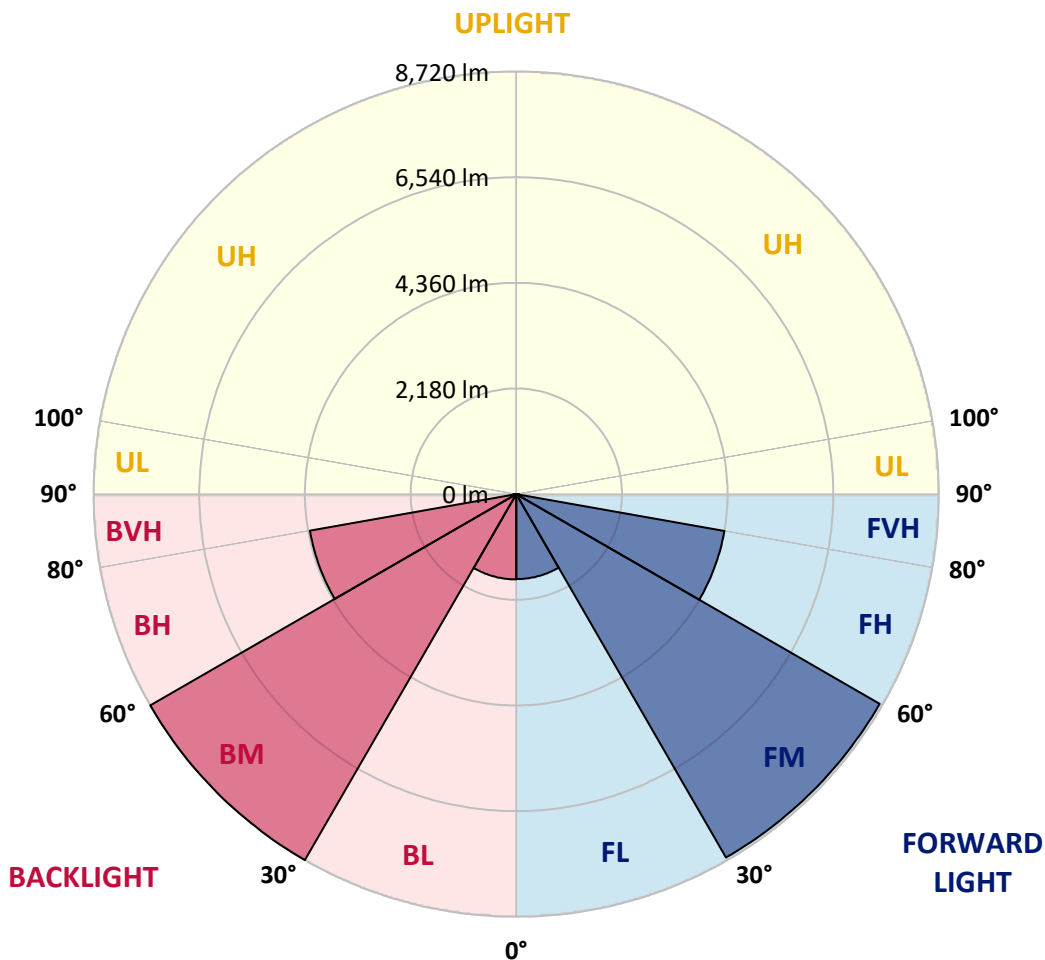
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1753.1	5.9			
FM (30°-60°)	8657.8	29.1			
FH (60°-80°)	4362.4	14.7			G2/5000
FVH (80°-90°)	64.6	0.2			G1/100
BL (0°-30°)	1759.9	5.9	B3/2500		
BM (30°-60°)	8720.3	29.4	B5		
BH (60°-80°)	4324.7	14.6	B4/5000		G2/5000
BVH (80°-90°)	61.3	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3477.7	3477.7	3477.7	3477.7	3477.7	3477.7	3477.7	3477.7	3477.7	3477.7	3477.7
2.5°	3436.9	3443.7	3505.0	3481.2	3501.6	3464.1	3491.4	3549.3	3481.2	3532.2	3549.3
5°	3474.3	3484.6	3484.6	3508.4	3522.0	3515.2	3532.2	3508.4	3573.1	3545.9	3586.7
7.5°	3610.6	3593.6	3566.3	3586.7	3590.2	3607.2	3624.2	3654.9	3644.7	3620.8	3661.7
10°	3634.4	3620.8	3661.7	3665.1	3648.1	3634.4	3651.5	3651.5	3682.1	3688.9	3688.9
12.5°	3675.3	3688.9	3685.5	3712.8	3716.2	3706.0	3733.2	3784.3	3770.7	3780.9	3757.1
15°	3832.0	3815.0	3811.6	3838.8	3883.1	3818.4	3866.1	3862.6	3849.0	3869.5	3815.0
17.5°	3968.2	3913.7	3937.6	3981.9	3964.8	3978.5	4039.8	3985.3	3998.9	3975.1	3958.0
20°	4087.5	4043.2	4046.6	4063.6	4063.6	4104.5	4128.3	4107.9	4094.3	4090.9	4097.7
22.5°	4220.3	4169.2	4172.6	4244.1	4268.0	4254.4	4237.3	4271.4	4278.2	4251.0	4281.6
25°	4319.1	4373.6	4390.6	4424.7	4373.6	4411.0	4397.4	4462.1	4503.0	4448.5	4486.0
27.5°	4578.0	4554.1	4598.4	4595.0	4635.9	4598.4	4622.2	4642.7	4659.7	4663.1	4646.1
30°	4809.6	4819.8	4775.5	4894.7	4799.4	4860.7	4901.5	4911.8	4932.2	4932.2	4881.1
32.5°	5054.8	5034.4	5105.9	5078.7	5061.6	5109.3	5065.0	5204.7	5122.9	5170.6	5112.7
35°	5330.7	5330.7	5358.0	5432.9	5330.7	5300.1	5381.8	5439.7	5439.7	5354.6	5375.0
37.5°	5640.7	5613.4	5647.5	5742.9	5664.5	5562.3	5712.2	5736.1	5719.0	5695.2	5654.3
40°	5858.7	5851.9	5920.0	6046.0	5933.6	5913.2	5940.4	6005.2	6025.6	6049.4	5994.9
42.5°	6226.6	6257.2	6454.8	6424.1	6332.2	6260.6	6253.8	6495.7	6437.7	6376.4	6345.8
45°	6771.6	6744.3	6846.5	6849.9	6730.7	6574.0	6608.1	6829.5	6928.2	6792.0	6843.1
47.5°	7204.1	7217.8	7289.3	7435.8	7159.9	6996.4	7122.4	7480.0	7449.4	7398.3	7446.0
50°	7783.2	7844.5	8069.3	8018.2	7773.0	7572.0	7847.9	8185.1	8222.6	8035.3	8001.2
52.5°	8583.7	8679.0	8801.7	8842.5	8607.5	8536.0	8553.0	8972.0	8880.0	8699.5	8583.7
55°	9285.3	9329.6	9554.4	9891.6	9874.6	9530.6	9728.2	9884.8	9510.2	9138.9	9169.5
57.5°	9585.1	9605.5	10232.3	10906.7	11308.6	11387.0	11162.2	10634.2	9741.8	9026.5	8982.2
60°	8839.1	9033.3	9789.5	11312.0	13148.0	14054.0	12558.7	10719.4	9200.2	8331.6	8266.9
62.5°	7064.5	7074.7	8198.8	10508.2	14292.5	16666.6	13093.5	9918.9	7756.0	6771.6	6512.7
64°	5031.0	5126.4	6417.3	9302.4	14054.0	17729.4	13028.8	8873.2	6393.5	4996.9	4816.4
65°	3610.6	3743.4	4990.1	8076.1	13495.4	17603.3	12834.6	7974.0	5170.6	3815.0	3631.0
67.5°	1328.4	1382.9	1958.6	4039.8	9690.7	15001.0	10171.0	4383.8	2271.9	1618.0	1454.5
70°	616.5	619.9	725.5	1335.2	4237.3	10031.3	4853.9	1645.2	855.0	677.8	630.1
72.5°	453.0	463.2	507.5	616.5	1246.7	4247.6	1594.1	674.4	500.7	442.8	432.6
75°	367.9	374.7	388.3	446.2	575.7	1137.7	647.2	466.7	398.5	357.7	344.0
77.5°	282.7	282.7	313.4	340.6	381.5	531.4	429.2	371.3	323.6	282.7	272.5
80°	204.4	207.8	245.2	265.7	258.9	350.8	310.0	306.6	265.7	221.4	204.4
82.5°	119.2	129.4	177.1	190.7	183.9	207.8	224.8	238.4	207.8	153.3	139.7
85°	68.1	71.5	102.2	105.6	105.6	98.8	129.4	143.1	139.7	95.4	85.2
87.5°	20.4	20.4	27.2	27.2	30.7	34.1	51.1	61.3	68.1	47.7	44.3
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°	136°	145°	155°	165°	175°	180°
0°	3477.7	3477.7	3477.7	3477.7	3477.7	3477.7	3477.7	3477.7	3477.7	3477.7	3477.7
2.5°	3532.2	3481.2	3484.6	3498.2	3453.9	3470.9	3522.0	3484.6	3474.3	3453.9	3443.7
5°	3515.2	3569.7	3549.3	3556.1	3545.9	3498.2	3491.4	3522.0	3539.1	3508.4	3569.7
7.5°	3634.4	3610.6	3583.3	3593.6	3569.7	3610.6	3637.8	3576.5	3607.2	3590.2	3556.1
10°	3702.6	3658.3	3678.7	3671.9	3654.9	3695.7	3668.5	3661.7	3634.4	3597.0	3651.5
12.5°	3726.4	3777.5	3811.6	3753.6	3763.9	3743.4	3726.4	3726.4	3695.7	3685.5	3695.7
15°	3832.0	3876.3	3862.6	3906.9	3849.0	3869.5	3889.9	3838.8	3866.1	3791.1	3849.0
17.5°	4026.1	3988.7	4036.4	3978.5	3998.9	4039.8	3975.1	3975.1	3995.5	3954.6	3903.5
20°	4148.8	4131.7	4114.7	4118.1	4084.1	4121.5	4101.1	4090.9	4060.2	4073.8	4101.1
22.5°	4264.6	4240.7	4247.6	4257.8	4281.6	4264.6	4254.4	4264.6	4189.6	4257.8	4162.4
25°	4407.6	4472.4	4451.9	4496.2	4428.1	4472.4	4469.0	4404.2	4445.1	4417.9	4397.4
27.5°	4646.1	4612.0	4642.7	4588.2	4635.9	4639.3	4598.4	4707.4	4659.7	4652.9	4639.3
30°	4952.6	4928.8	4908.4	4877.7	4915.2	4884.5	4918.6	4928.8	4884.5	4850.5	4785.7
32.5°	5126.4	5191.1	5214.9	5140.0	5143.4	5160.4	5129.8	5099.1	5126.4	5136.6	5126.4
35°	5371.6	5432.9	5446.5	5388.6	5358.0	5443.1	5381.8	5484.0	5395.4	5398.9	5306.9
37.5°	5657.7	5674.8	5790.6	5725.8	5698.6	5657.7	5770.1	5756.5	5776.9	5613.4	5695.2
40°	5981.3	6042.6	6107.3	5943.8	5940.4	5977.9	5971.1	6049.4	6012.0	5988.1	5930.2
42.5°	6335.6	6465.0	6475.2	6366.2	6298.1	6291.3	6325.3	6499.1	6502.5	6345.8	6277.7
45°	6805.6	6948.7	6911.2	6700.0	6625.1	6614.9	6781.8	6856.7	6921.4	6860.1	6802.2
47.5°	7391.5	7486.9	7459.6	7265.5	7023.6	7091.7	7255.2	7490.3	7422.1	7340.4	7272.3
50°	8018.2	8130.6	8072.7	7878.6	7647.0	7647.0	7847.9	8147.7	8127.2	7967.1	7905.8
52.5°	8713.1	8876.6	9009.4	8733.5	8539.4	8570.0	8886.8	8995.8	8944.7	8832.3	8781.2
55°	9230.8	9544.2	9816.7	9830.3	9840.6	9837.2	9918.9	10027.9	9663.4	9482.9	9299.0
57.5°	9104.8	9697.5	10630.8	11264.4	11451.7	11550.5	11523.2	11019.1	10157.3	9564.7	9626.0
60°	8205.6	9172.9	10678.5	12712.0	14074.5	13938.2	13440.9	11448.3	9884.8	8883.4	8757.4
62.5°	6546.7	7711.7	9878.0	13120.7	16874.4	16833.5	14231.2	10457.1	8236.2	6969.1	6890.8
64°	4932.2	6158.4	8811.9	13015.1	17855.4	17896.3	14030.2	9237.7	6444.6	4932.2	4813.0
65°	3774.1	4911.8	7766.2	12797.2	17644.2	17668.0	13471.6	7977.4	4898.1	3501.6	3372.2
67.5°	1502.1	2091.4	4213.5	9704.3	15150.8	15086.1	9612.3	3859.2	1873.4	1219.4	1195.6
70°	640.4	797.1	1478.3	4598.4	10143.7	9956.4	4138.6	1253.5	694.9	582.5	579.1
72.5°	439.4	487.1	633.6	1420.4	4216.9	4118.1	1178.6	582.5	473.5	436.0	436.0
75°	354.2	388.3	459.8	596.1	1117.2	1076.4	555.2	429.2	378.1	350.8	347.4
77.5°	275.9	310.0	361.1	412.2	510.9	507.5	371.3	323.6	292.9	272.5	265.7
80°	218.0	252.1	286.1	292.9	333.8	327.0	252.1	255.5	238.4	197.6	194.2
82.5°	149.9	204.4	228.2	207.8	197.6	197.6	180.5	180.5	166.9	122.6	112.4
85°	92.0	136.2	143.1	122.6	92.0	92.0	98.8	95.4	88.6	64.7	61.3
87.5°	47.7	64.7	57.9	47.7	30.7	30.7	27.2	20.4	20.4	17.0	17.0
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)