

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: P481227

Luminaire Tested: **IFLD-L-SA7E-730-U-RW**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481227
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7E-730-U-RW
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ RW distribution lens
Light Source: (112) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

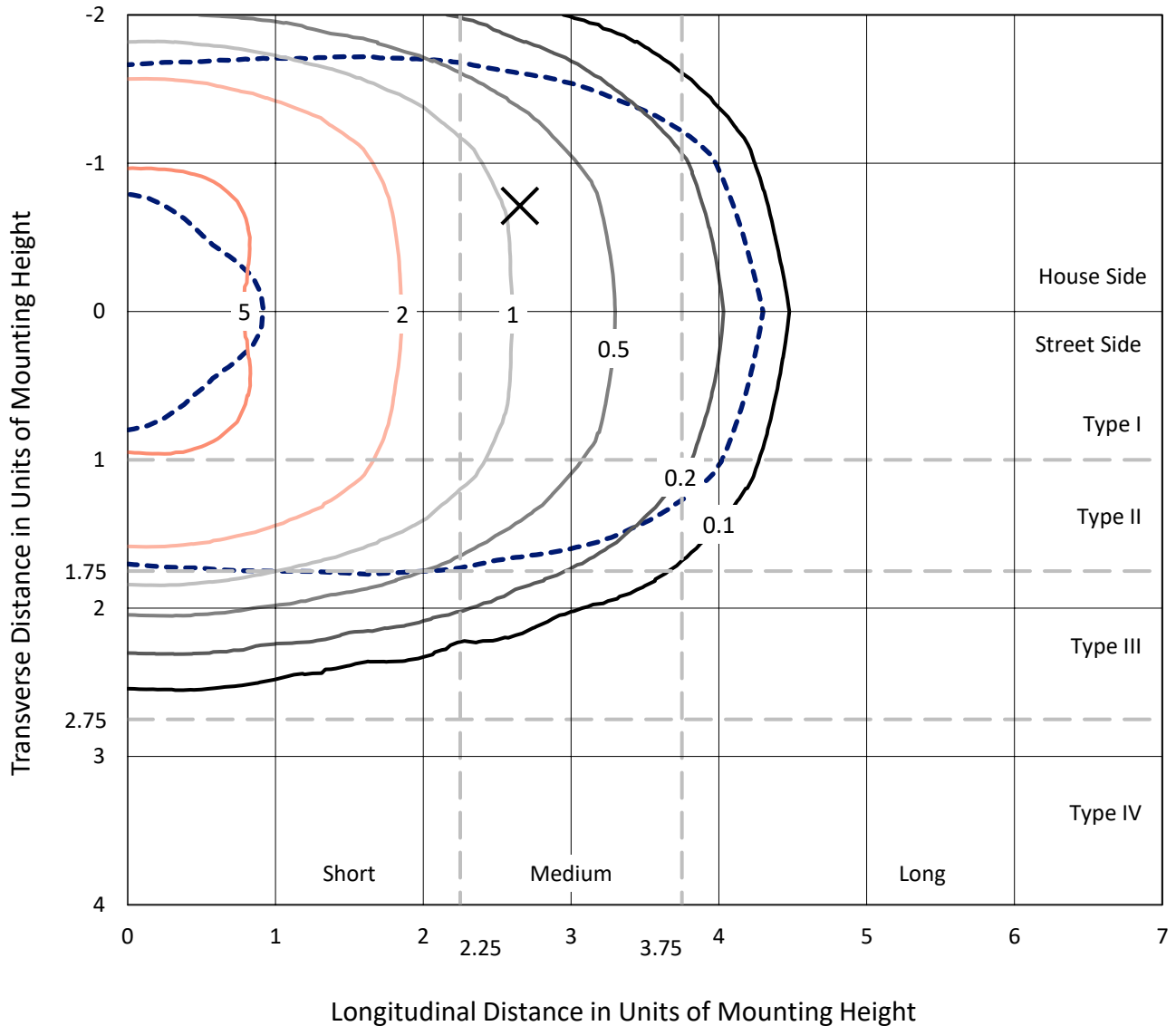
Lumens per Lamp: N/A
Luminaire Lumens: 52948.2 lumens
Efficiency: N/A
Efficacy: 99.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B5 - U0 - G5

Input Watts (W): 532.7
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

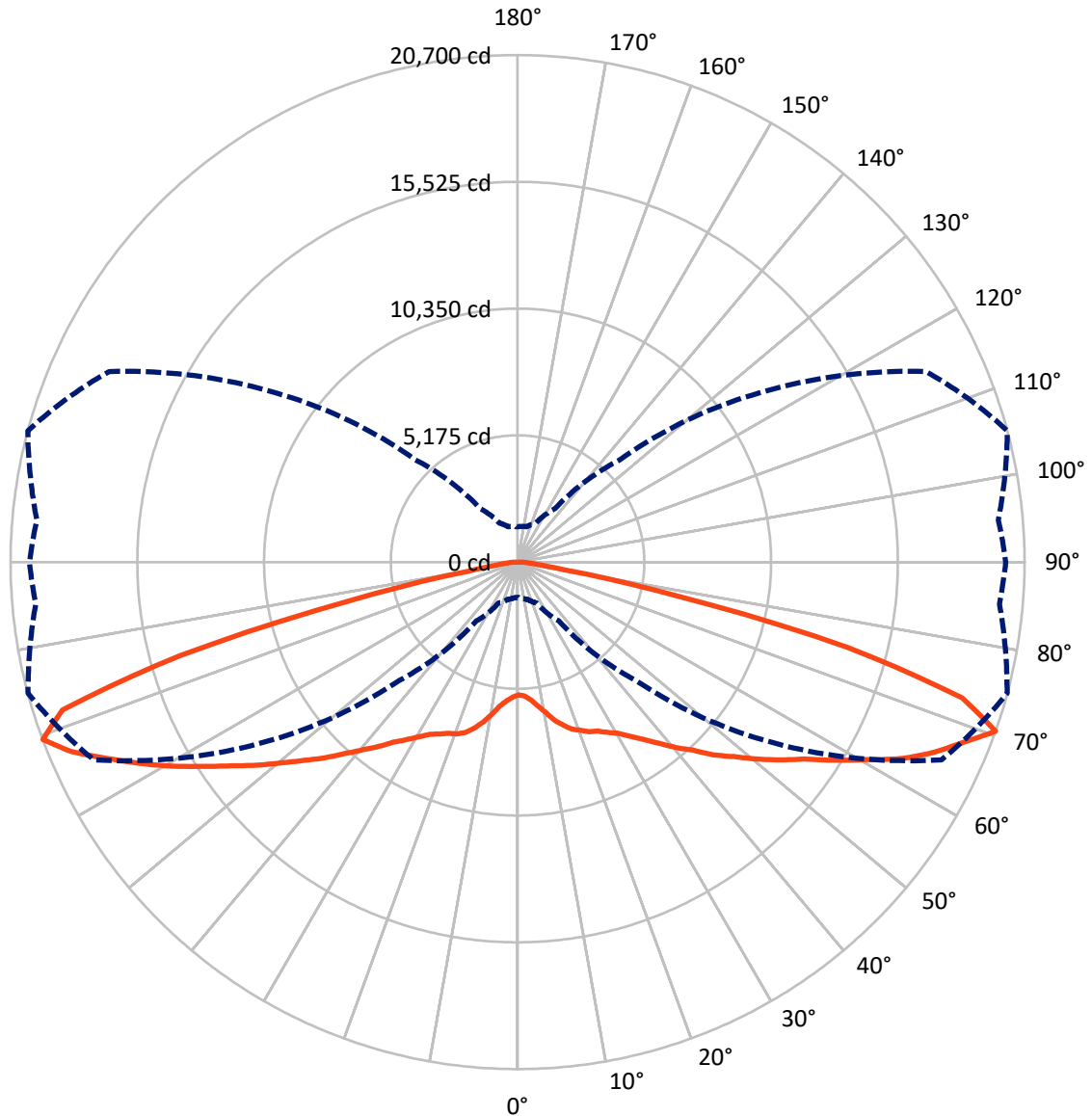
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.1 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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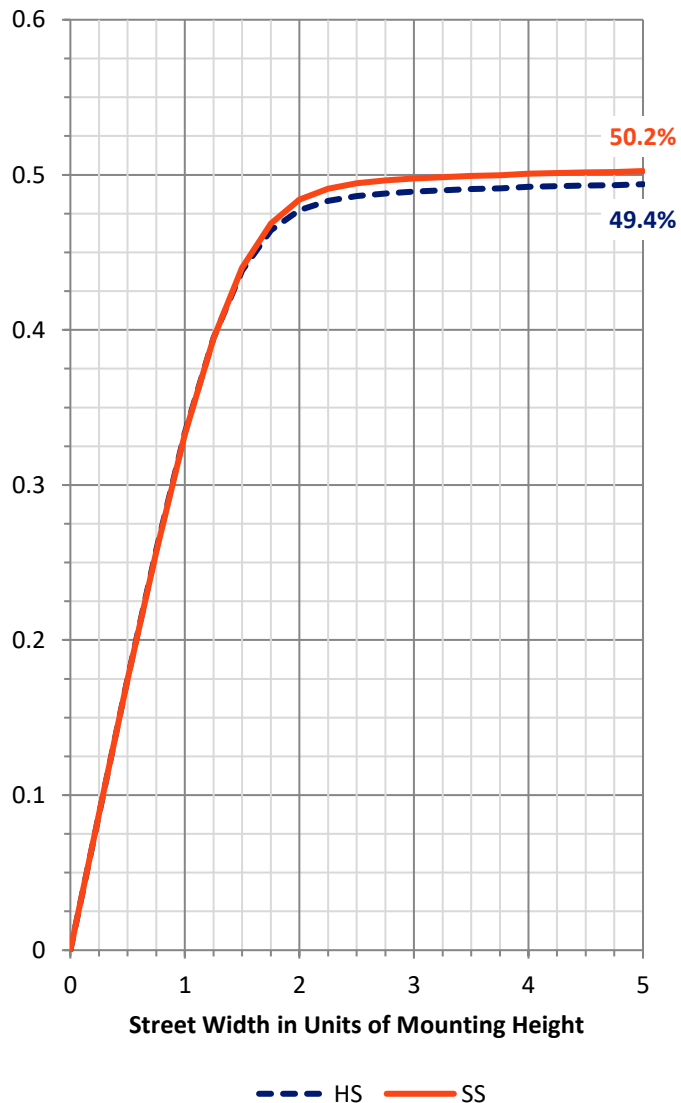
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	26285.8	0.0	26285.8
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	26662.5	0.0	26662.5
	% Fixture	50.4	0.0	50.4
Total	Lumens	52948.2	0.0	52948.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	539.7	1.0
10°-20°	1837.5	3.5
20°-30°	3558.0	6.7
30°-40°	6018.0	11.4
40°-50°	9600.6	18.1
50°-60°	13141.1	24.8
60°-70°	12386.3	23.4
70°-80°	5456.5	10.3
80°-90°	410.6	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°	52948.2	100.0
0°-180°	52948.2	100.0

Coefficient of Utilization



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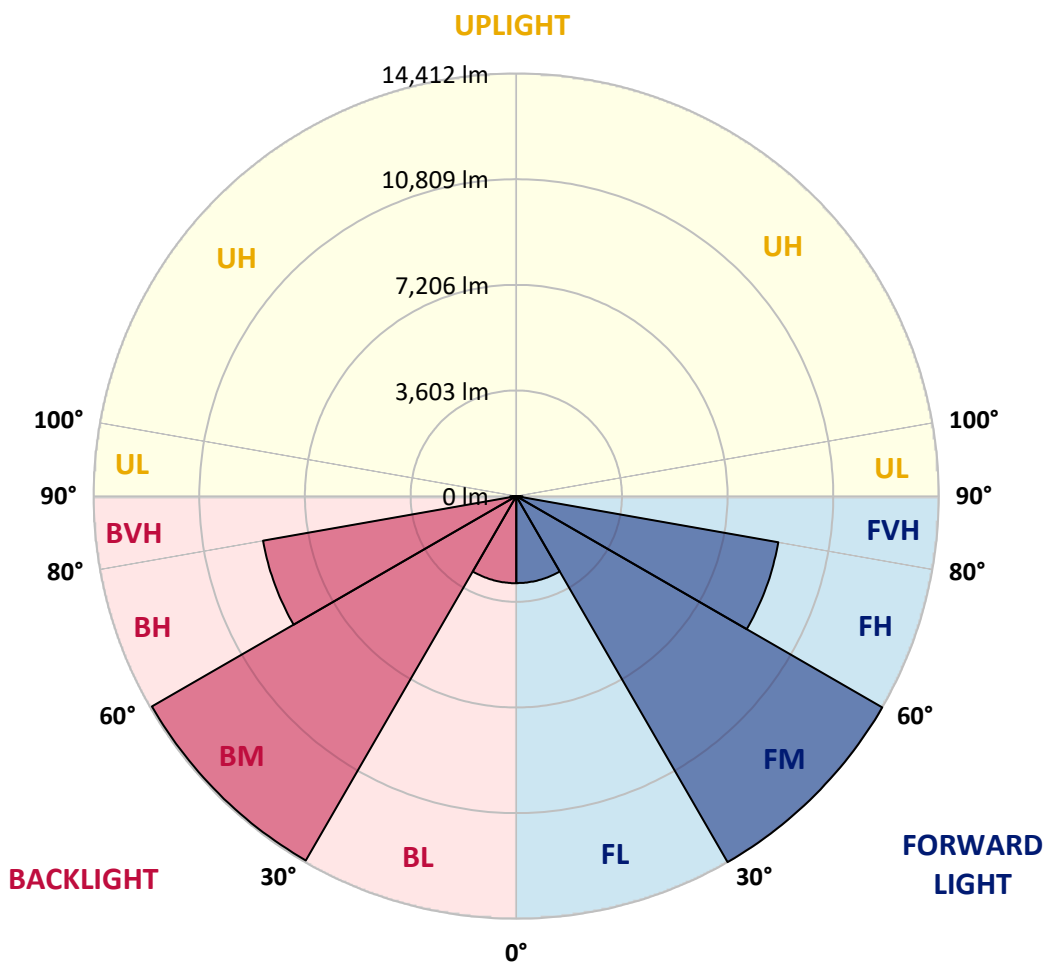
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2965.9	5.6			
FM (30°-60°)	14412.0	27.2			
FH (60°-80°)	9074.8	17.1			G4/12000
FVH (80°-90°)	209.7	0.4			G2/225
BL (0°-30°)	2969.2	5.6	B4/5000		
BM (30°-60°)	14347.6	27.1	B5		
BH (60°-80°)	8768.1	16.6	B5		G5
BVH (80°-90°)	200.8	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°	5421.8	5421.8	5421.8	5421.8	5421.8	5421.8	5421.8	5421.8	5421.8	5421.8	5421.8
2.5°	5387.6	5387.6	5381.9	5410.4	5439.0	5450.4	5473.2	5478.9	5513.2	5484.6	5541.7
5°	5370.5	5364.8	5410.4	5478.9	5478.9	5553.1	5598.8	5661.5	5678.7	5712.9	5724.3
7.5°	5490.3	5478.9	5456.1	5530.3	5593.1	5707.2	5770.0	5878.4	5918.4	5964.0	6015.4
10°	5564.5	5564.5	5541.7	5673.0	5730.0	5884.1	6021.1	6129.5	6283.6	6335.0	6340.7
12.5°	5575.9	5593.1	5661.5	5832.8	5992.6	6192.3	6295.0	6500.5	6654.6	6751.6	6785.9
15°	5747.2	5712.9	5787.1	6021.1	6255.1	6432.0	6614.7	6763.0	6985.6	7111.2	7191.1
17.5°	5901.3	5867.0	6004.0	6283.6	6523.3	6797.3	6957.1	7116.9	7276.7	7390.8	7396.5
20°	6146.7	6175.2	6295.0	6597.5	6911.4	7151.1	7333.8	7362.3	7442.2	7607.7	7579.2
22.5°	6449.1	6426.3	6677.4	7008.4	7350.9	7550.6	7653.4	7579.2	7539.2	7716.1	7756.1
25°	6751.6	6820.1	7048.4	7356.6	7767.5	8035.7	8064.3	7858.8	7710.4	7773.2	7756.1
27.5°	7213.9	7225.3	7465.0	7830.3	8246.9	8480.9	8463.8	8172.7	7887.4	7893.1	7904.5
30°	7807.5	7750.4	8012.9	8343.9	8754.9	8966.0	8994.6	8577.9	8195.5	8081.4	8109.9
32.5°	8378.2	8446.7	8675.0	9051.6	9354.1	9474.0	9411.2	9040.2	8543.7	8389.6	8406.7
35°	9108.7	9097.3	9411.2	9730.8	9959.1	9981.9	9930.5	9388.4	8920.4	8720.6	8640.7
37.5°	9890.6	9993.3	10198.8	10461.3	10701.0	10712.4	10432.8	9999.0	9422.6	9091.6	9188.6
40°	10763.8	10877.9	11026.3	11408.7	11585.6	11403.0	11117.6	10529.8	9930.5	9639.5	9685.1
42.5°	11534.3	11585.6	11888.1	12339.0	12424.6	12344.7	11922.4	11209.0	10512.7	10193.1	10215.9
45°	12242.0	12310.4	12704.2	13109.5	13309.2	13172.2	12681.4	12002.3	11191.8	10917.9	10809.4
47.5°	12892.6	13029.6	13411.9	13828.6	14136.7	14148.2	13543.2	12721.4	11865.3	11505.7	11500.0
50°	13332.0	13531.8	13908.5	14382.2	14833.0	15010.0	14405.0	13520.4	12601.5	12219.1	12179.2
52.5°	13571.7	13777.2	14153.9	14890.1	15392.3	15666.3	15380.9	14268.0	13463.3	13063.8	13001.0
55°	13280.7	13417.6	14034.0	15067.0	15843.2	16294.1	16105.7	15301.0	14319.4	13994.1	14051.1
57.5°	12042.2	12327.6	13086.6	14376.5	15831.8	16939.0	16921.9	16277.0	15306.7	14998.5	15010.0
60°	9913.4	10153.1	11089.1	12892.6	15192.6	17201.5	17806.5	17224.3	16413.9	16054.4	16043.0
62.5°	6997.0	7299.5	8383.9	10352.9	13309.2	16836.3	18822.4	18417.2	17498.3	17235.8	17332.8
65°	3915.1	4097.8	5102.2	6882.9	10141.7	14827.3	19005.0	19655.6	18599.8	18200.3	18217.4
67.5°	2094.5	2163.0	2631.0	3612.7	6203.7	11431.5	17161.6	20369.0	19792.6	19102.0	18993.6
70°	1438.2	1461.0	1580.9	1849.1	2933.5	6837.2	12943.9	19096.3	20688.6	19746.9	19929.6
72.5°	1215.6	1204.2	1232.8	1261.3	1535.2	3059.1	7596.3	14696.1	19530.1	19176.2	19107.7
75°	1055.8	1050.1	1061.5	1033.0	1067.2	1346.9	3361.5	9160.1	14296.6	15957.3	16214.2
77.5°	873.2	878.9	884.6	856.1	844.7	890.3	1352.6	4023.6	7037.0	7767.5	8378.2
80°	662.0	673.5	719.1	690.6	644.9	650.6	799.0	1346.9	2020.4	1832.0	1889.1
82.5°	450.9	456.6	553.6	519.4	485.1	439.5	513.6	696.3	787.6	599.3	525.1
85°	319.6	313.9	359.6	331.0	308.2	222.6	308.2	393.8	473.7	296.8	268.2
87.5°	74.2	74.2	148.4	119.9	114.1	91.3	119.9	154.1	205.5	131.3	119.9
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°	5421.8	5421.8	5421.8	5421.8	5421.8	5421.8	5421.8	5421.8	5421.8	5421.8
2.5°	5524.6	5473.2	5473.2	5461.8	5416.1	5404.7	5364.8	5376.2	5347.7	5319.1
5°	5718.6	5650.1	5650.1	5553.1	5461.8	5450.4	5404.7	5404.7	5359.1	5370.5
7.5°	5986.9	5924.1	5821.4	5735.7	5610.2	5558.8	5473.2	5461.8	5450.4	5427.6
10°	6306.5	6226.6	6123.8	5946.9	5844.2	5747.2	5661.5	5541.7	5513.2	5518.9
12.5°	6740.2	6614.7	6392.1	6238.0	6106.7	5981.2	5855.6	5678.7	5638.7	5655.8
15°	7048.4	6888.6	6666.0	6608.9	6432.0	6277.9	6072.5	5872.7	5804.2	5787.1
17.5°	7299.5	7168.3	7037.0	6951.4	6808.7	6620.4	6335.0	6106.7	5952.6	5935.5
20°	7505.0	7333.8	7305.2	7356.6	7179.7	7054.1	6706.0	6426.3	6220.9	6135.2
22.5°	7630.5	7522.1	7602.0	7647.7	7636.2	7425.1	7065.5	6740.2	6483.4	6403.5
25°	7767.5	7641.9	7927.3	8081.4	8121.4	7773.2	7493.6	7065.5	6814.4	6763.0
27.5°	7836.0	7881.7	8212.7	8538.0	8509.4	8241.2	7864.5	7482.1	7282.4	7191.1
30°	8035.7	8109.9	8612.2	8977.4	8983.1	8720.6	8435.3	8001.5	7778.9	7739.0
32.5°	8395.3	8486.6	9023.1	9411.2	9479.7	9279.9	8994.6	8726.3	8498.0	8406.7
35°	8669.2	8903.2	9508.2	9862.1	10044.7	9924.8	9765.0	9485.4	9245.7	9165.8
37.5°	9063.0	9388.4	9970.5	10449.9	10655.4	10643.9	10524.1	10221.6	10021.9	9953.4
40°	9628.1	9953.4	10484.1	11117.6	11500.0	11482.9	11414.4	11180.4	10883.6	10849.4
42.5°	10227.3	10495.6	11186.1	11910.9	12458.8	12401.8	12219.1	11945.2	11739.7	11694.1
45°	10809.4	11226.1	11865.3	12795.6	13206.5	13349.2	13132.3	12664.3	12430.3	12401.8
47.5°	11540.0	11871.0	12670.0	13503.2	14113.9	14136.7	13765.8	13332.0	12904.0	12995.3
50°	12190.6	12630.0	13440.5	14353.6	15084.1	14821.6	14347.9	13805.7	13497.5	13377.7
52.5°	12886.9	13423.3	14365.0	15295.3	15700.5	15438.0	14667.5	14062.6	13594.6	13543.2
55°	13902.8	14182.4	15415.2	16128.6	16259.8	15706.2	14570.5	13714.4	13109.5	12961.1
57.5°	14935.8	15261.1	16339.7	16956.1	16819.1	15557.8	13942.7	12618.6	11825.3	11614.2
60°	15980.2	16379.7	17287.1	17852.1	17144.4	14536.3	12167.8	10461.3	9536.7	9348.4
62.5°	17144.4	17663.8	18474.2	18674.0	16179.9	12515.9	9656.6	7550.6	6614.7	6300.8
65°	18177.5	18708.2	19707.0	18502.8	14131.0	9337.0	6243.7	4314.6	3624.1	3373.0
67.5°	19027.8	19627.1	20117.9	16374.0	10347.2	5467.5	3253.1	2271.5	2014.6	1923.3
70°	19701.3	20700.0	18405.7	12036.5	5912.7	2665.3	1757.8	1495.3	1461.0	1438.2
72.5°	19113.4	18982.2	13743.0	6945.7	2591.1	1466.8	1272.7	1232.8	1227.0	1232.8
75°	15632.0	13942.7	8218.4	3019.1	1301.2	1061.5	1055.8	1038.7	1067.2	1067.2
77.5°	7584.9	6631.8	3435.7	1295.5	856.1	833.3	861.8	861.8	861.8	861.8
80°	1757.8	1946.2	1227.0	787.6	622.1	622.1	684.9	690.6	662.0	650.6
82.5°	599.3	799.0	673.5	496.5	410.9	462.3	519.4	530.8	439.5	445.2
85°	296.8	468.0	365.3	285.4	211.2	285.4	336.7	353.8	302.5	291.1
87.5°	137.0	205.5	137.0	97.0	74.2	102.7	97.0	79.9	45.7	45.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)