

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: P481344

Luminaire Tested: **IFLD-L-SA7E-750-U-RW**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481344
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7E-750-U-RW
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ RW distribution lens
Light Source: (112) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

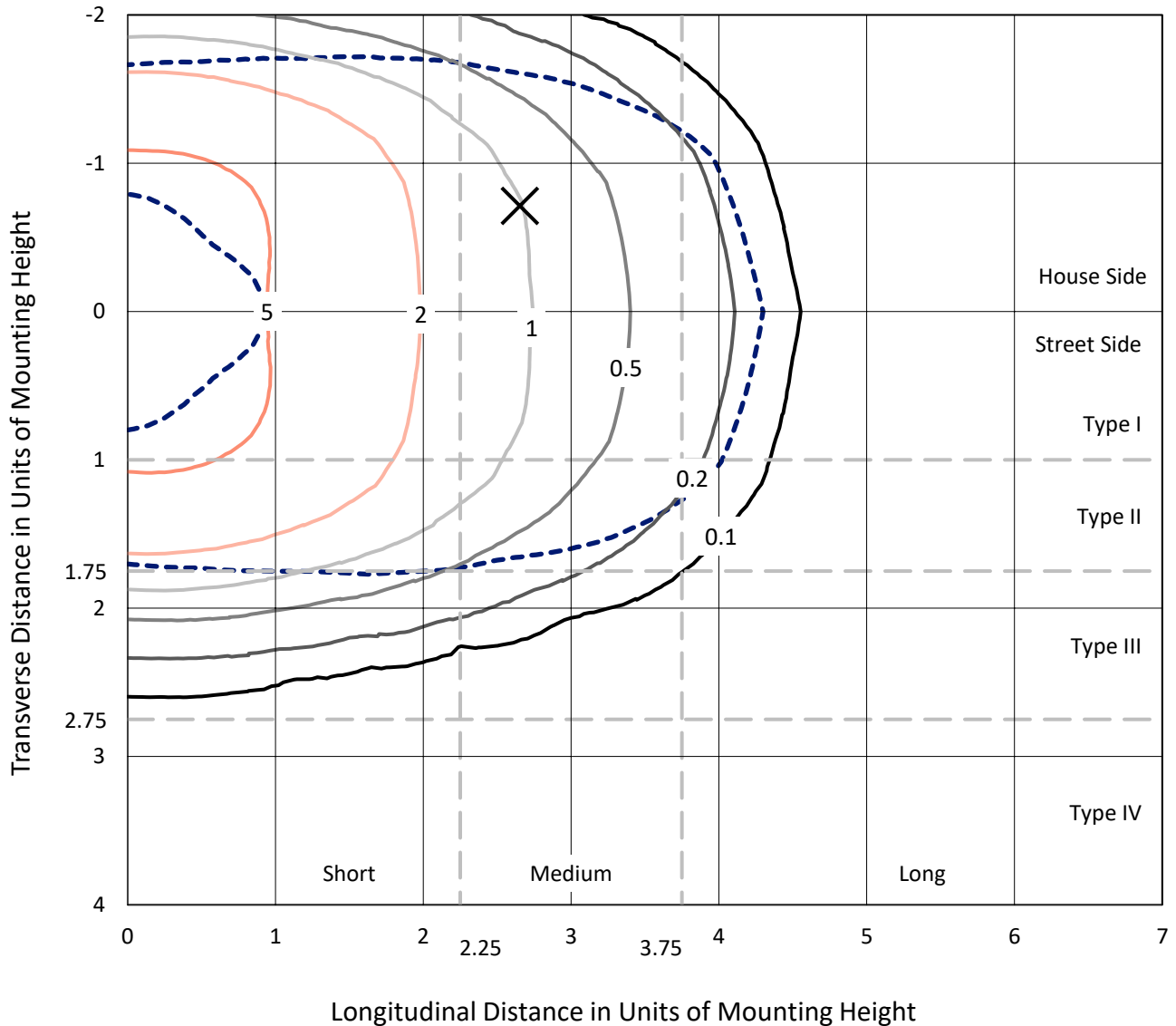
Lumens per Lamp: N/A
Luminaire Lumens: 59478.1 lumens
Efficiency: N/A
Efficacy: 111.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B5 - U0 - G5

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

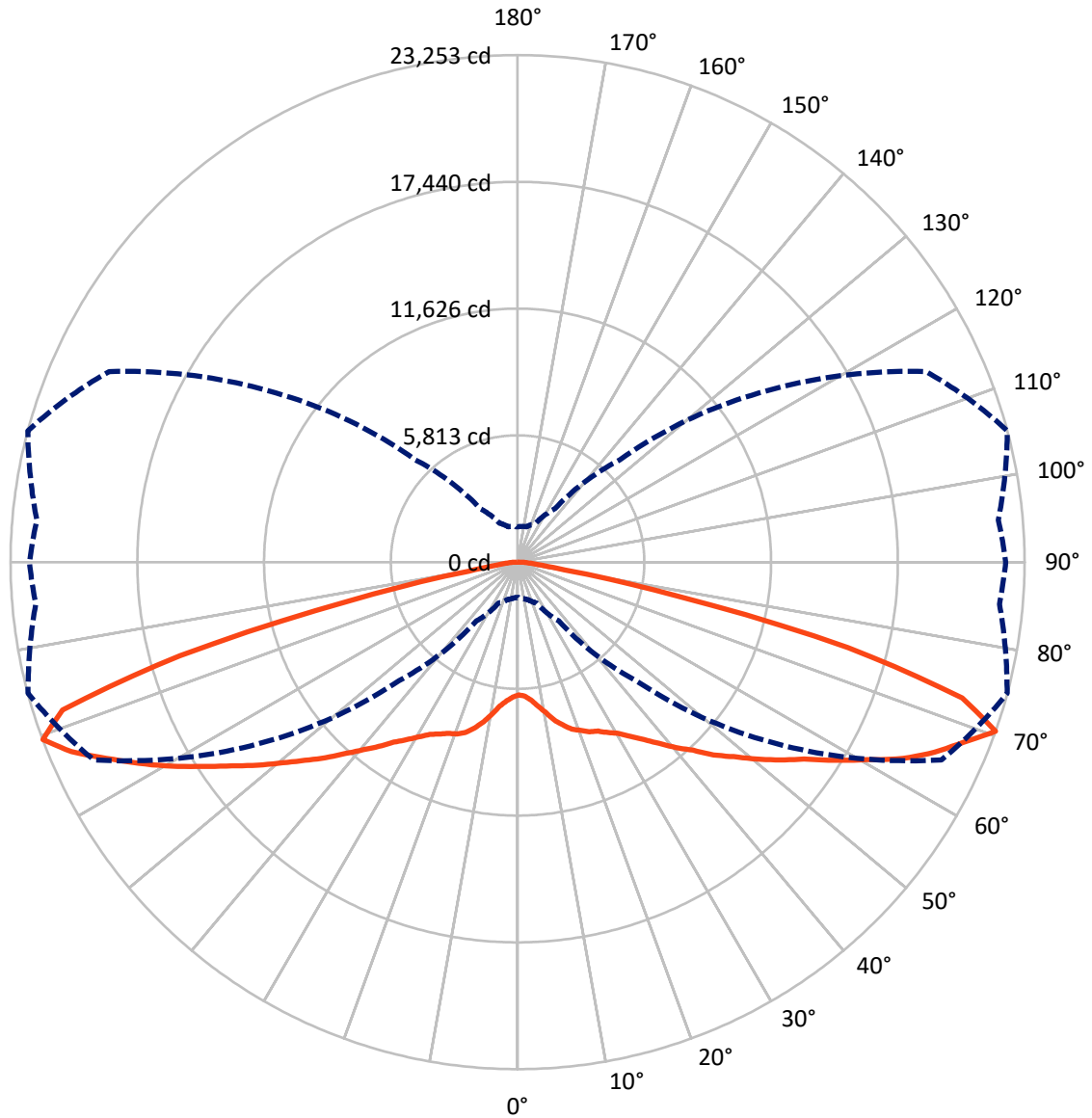
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8 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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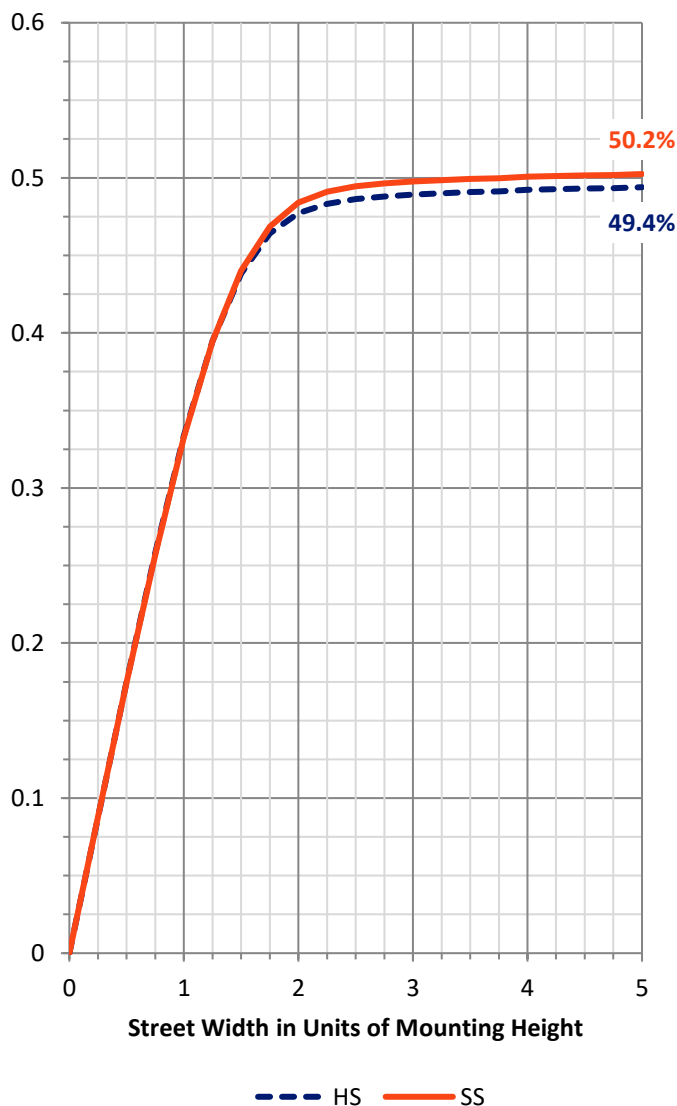
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	29527.5	0.0	29527.5
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	29950.6	0.0	29950.6
	% Fixture	50.4	0.0	50.4
Total	Lumens	59478.1	0.0	59478.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	606.2	1.0
10°-20°	2064.1	3.5
20°-30°	3996.8	6.7
30°-40°	6760.2	11.4
40°-50°	10784.6	18.1
50°-60°	14761.7	24.8
60°-70°	13913.9	23.4
70°-80°	6129.5	10.3
80°-90°	461.2	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°	59478.1	100.0
0°-180°	59478.1	100.0

Coefficient of Utilization



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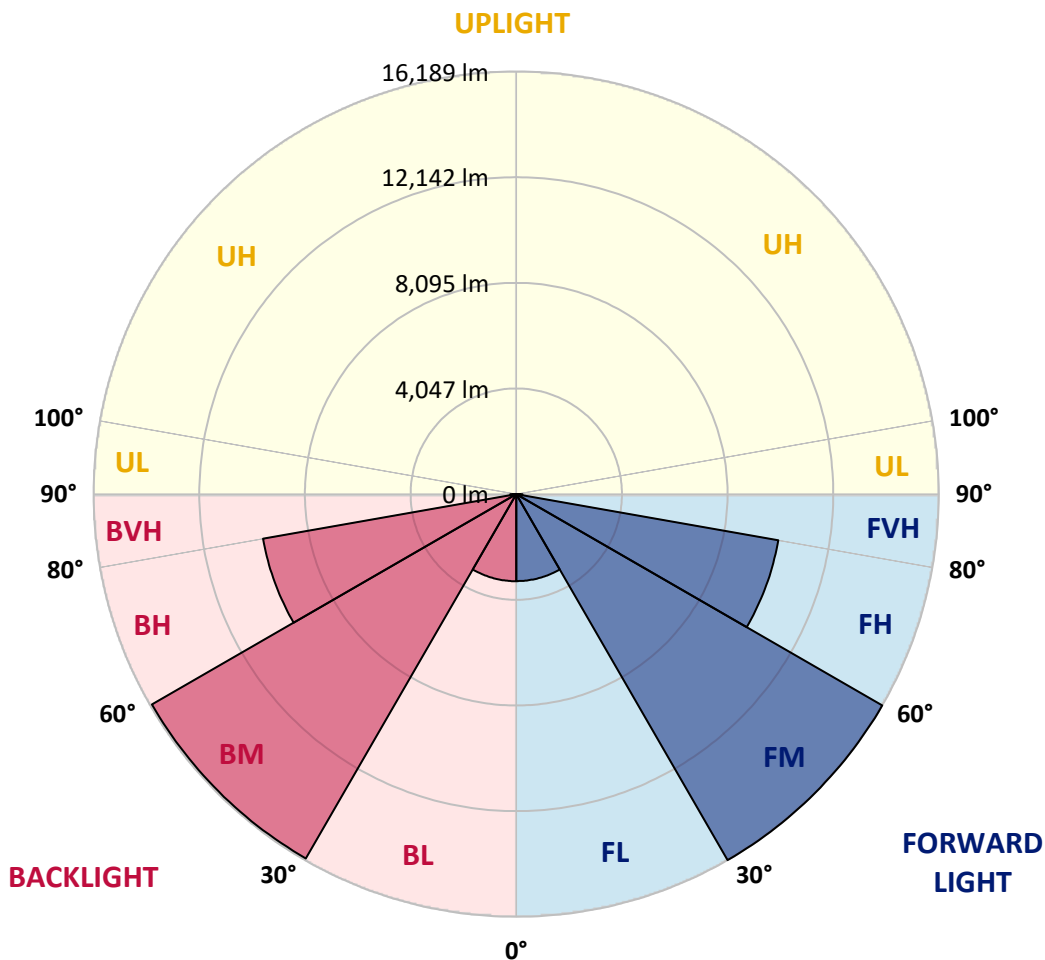
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3331.7	5.6			
FM (30°-60°)	16189.4	27.2			
FH (60°-80°)	10193.9	17.1			G4/12000
FVH (80°-90°)	235.6	0.4			G3/500
BL (0°-30°)	3335.4	5.6	B4/5000		
BM (30°-60°)	16117.1	27.1	B5		
BH (60°-80°)	9849.5	16.6	B5		G5
BVH (80°-90°)	225.6	0.4			G3/500
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°	6090.5	6090.5	6090.5	6090.5	6090.5	6090.5	6090.5	6090.5	6090.5	6090.5	6090.5
2.5°	6052.0	6052.0	6045.6	6077.7	6109.7	6122.6	6148.2	6154.6	6193.1	6161.0	6225.1
5°	6032.8	6026.4	6077.7	6154.6	6154.6	6238.0	6289.2	6359.8	6379.0	6417.5	6430.3
7.5°	6167.4	6154.6	6129.0	6212.3	6282.8	6411.0	6481.6	6603.4	6648.3	6699.5	6757.2
10°	6250.8	6250.8	6225.1	6372.6	6436.7	6609.8	6763.7	6885.5	7058.6	7116.3	7122.7
12.5°	6263.6	6282.8	6359.8	6552.1	6731.6	6956.0	7071.4	7302.2	7475.3	7584.3	7622.7
15°	6455.9	6417.5	6500.8	6763.7	7026.5	7225.3	7430.4	7597.1	7847.1	7988.2	8077.9
17.5°	6629.0	6590.6	6744.4	7058.6	7327.8	7635.6	7815.1	7994.6	8174.1	8302.3	8308.7
20°	6904.7	6936.8	7071.4	7411.2	7763.8	8033.0	8238.2	8270.3	8360.0	8545.9	8513.9
22.5°	7244.5	7218.8	7500.9	7872.8	8257.4	8481.8	8597.2	8513.9	8469.0	8667.7	8712.6
25°	7584.3	7661.2	7917.6	8263.8	8725.4	9026.8	9058.8	8828.0	8661.3	8731.8	8712.6
27.5°	8103.6	8116.4	8385.7	8796.0	9264.0	9526.8	9507.6	9180.6	8860.1	8866.5	8879.3
30°	8770.3	8706.2	9001.1	9373.0	9834.5	10071.8	10103.8	9635.8	9206.3	9078.0	9110.1
32.5°	9411.4	9488.4	9744.8	10167.9	10507.7	10642.3	10571.8	10155.1	9597.3	9424.2	9443.5
35°	10232.0	10219.2	10571.8	10930.8	11187.3	11212.9	11155.2	10546.2	10020.5	9796.1	9706.3
37.5°	11110.3	11225.7	11456.5	11751.5	12020.7	12033.5	11719.4	11232.2	10584.6	10212.8	10321.8
40°	12091.2	12219.5	12386.1	12815.7	13014.4	12809.3	12488.7	11828.4	11155.2	10828.3	10879.6
42.5°	12956.7	13014.4	13354.2	13860.7	13956.9	13867.1	13392.7	12591.3	11809.2	11450.1	11475.8
45°	13751.7	13828.6	14271.0	14726.2	14950.6	14796.7	14245.4	13482.4	12572.1	12264.3	12142.5
47.5°	14482.6	14636.4	15066.0	15534.0	15880.2	15893.0	15213.4	14290.2	13328.6	12924.7	12918.3
50°	14976.2	15200.6	15623.7	16155.8	16662.3	16861.1	16181.5	15187.8	14155.6	13726.1	13681.2
52.5°	15245.5	15476.3	15899.4	16726.4	17290.6	17598.3	17277.8	16027.6	15123.7	14674.9	14604.4
55°	14918.5	15072.4	15764.8	16925.2	17797.1	18303.5	18092.0	17188.0	16085.3	15719.9	15784.0
57.5°	13527.3	13847.9	14700.5	16149.4	17784.2	19028.0	19008.8	18284.3	17194.4	16848.2	16861.1
60°	11136.0	11405.3	12456.7	14482.6	17066.2	19322.9	20002.5	19348.5	18438.2	18034.3	18021.5
62.5°	7859.9	8199.7	9417.8	11629.6	14950.6	18912.6	21143.6	20688.5	19656.3	19361.4	19470.4
65°	4398.0	4603.1	5731.5	7731.7	11392.4	16655.9	21348.8	22079.7	20893.6	20444.8	20464.1
67.5°	2352.9	2429.8	2955.5	4058.2	6968.8	12841.3	19278.0	22881.0	22233.5	21457.8	21336.0
70°	1615.6	1641.2	1775.9	2077.2	3295.3	7680.4	14540.3	21451.4	23240.1	22182.2	22387.4
72.5°	1365.6	1352.7	1384.8	1416.8	1724.6	3436.3	8533.1	16508.5	21938.6	21541.1	21464.2
75°	1186.0	1179.6	1192.5	1160.4	1198.9	1513.0	3776.1	10289.7	16059.7	17925.3	18213.8
77.5°	980.9	987.3	993.7	961.7	948.8	1000.1	1519.4	4519.8	7904.8	8725.4	9411.4
80°	743.7	756.5	807.8	775.7	724.4	730.9	897.5	1513.0	2269.5	2057.9	2122.1
82.5°	506.5	512.9	621.9	583.4	544.9	493.7	577.0	782.1	884.7	673.2	589.8
85°	359.0	352.6	403.9	371.8	346.2	250.0	346.2	442.4	532.1	333.4	301.3
87.5°	83.3	83.3	166.7	134.6	128.2	102.6	134.6	173.1	230.8	147.5	134.6
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°	6090.5	6090.5	6090.5	6090.5	6090.5	6090.5	6090.5	6090.5	6090.5	6090.5
2.5°	6205.9	6148.2	6148.2	6135.4	6084.1	6071.3	6026.4	6039.2	6007.2	5975.1
5°	6423.9	6346.9	6346.9	6238.0	6135.4	6122.6	6071.3	6071.3	6020.0	6032.8
7.5°	6725.2	6654.7	6539.3	6443.1	6302.1	6244.4	6148.2	6135.4	6122.6	6096.9
10°	7084.2	6994.5	6879.1	6680.3	6564.9	6455.9	6359.8	6225.1	6193.1	6199.5
12.5°	7571.4	7430.4	7180.4	7007.3	6859.8	6718.8	6577.7	6379.0	6334.1	6353.3
15°	7917.6	7738.1	7488.1	7424.0	7225.3	7052.2	6821.4	6597.0	6520.0	6500.8
17.5°	8199.7	8052.3	7904.8	7808.7	7648.4	7436.8	7116.3	6859.8	6686.7	6667.5
20°	8430.5	8238.2	8206.1	8263.8	8065.1	7924.1	7533.0	7218.8	6988.0	6891.9
22.5°	8571.6	8449.8	8539.5	8590.8	8578.0	8340.8	7936.9	7571.4	7283.0	7193.2
25°	8725.4	8584.4	8904.9	9078.0	9122.9	8731.8	8417.7	7936.9	7654.8	7597.1
27.5°	8802.4	8853.7	9225.5	9590.9	9558.9	9257.6	8834.4	8404.9	8180.5	8077.9
30°	9026.8	9110.1	9674.3	10084.6	10091.0	9796.1	9475.5	8988.3	8738.3	8693.4
32.5°	9430.7	9533.2	10135.9	10571.8	10648.8	10424.4	10103.8	9802.5	9546.1	9443.5
35°	9738.4	10001.2	10680.8	11078.3	11283.4	11148.8	10969.3	10655.2	10385.9	10296.1
37.5°	10180.7	10546.2	11200.1	11738.6	11969.4	11956.6	11822.0	11482.2	11257.8	11180.9
40°	10815.4	11180.9	11777.1	12488.7	12918.3	12899.0	12822.1	12559.2	12225.9	12187.4
42.5°	11488.6	11789.9	12565.7	13379.9	13995.3	13931.2	13726.1	13418.3	13187.5	13136.2
45°	12142.5	12610.5	13328.6	14373.6	14835.2	14995.4	14751.8	14226.1	13963.3	13931.2
47.5°	12963.1	13335.0	14232.5	15168.5	15854.5	15880.2	15463.5	14976.2	14495.4	14598.0
50°	13694.0	14187.7	15098.0	16123.8	16944.4	16649.5	16117.4	15508.3	15162.1	15027.5
52.5°	14476.1	15078.8	16136.6	17181.6	17636.8	17341.9	16476.4	15796.8	15271.1	15213.4
55°	15617.3	15931.5	17316.2	18117.6	18265.1	17643.2	16367.4	15405.8	14726.2	14559.5
57.5°	16777.7	17143.1	18354.8	19047.2	18893.4	17476.5	15662.2	14174.8	13283.7	13046.5
60°	17950.9	18399.7	19419.1	20053.8	19258.8	16328.9	13668.4	11751.5	10712.9	10501.3
62.5°	19258.8	19842.2	20752.6	20977.0	18175.3	14059.4	10847.5	8481.8	7430.4	7077.8
65°	20419.2	21015.4	22137.4	20784.6	15873.8	10488.5	7013.7	4846.8	4071.0	3788.9
67.5°	21374.4	22047.6	22598.9	18393.3	11623.2	6141.8	3654.3	2551.6	2263.1	2160.5
70°	22130.9	23252.9	20675.6	13520.9	6641.8	2994.0	1974.6	1679.7	1641.2	1615.6
72.5°	21470.6	21323.1	15437.8	7802.2	2910.6	1647.6	1429.7	1384.8	1378.4	1384.8
75°	17559.9	15662.2	9231.9	3391.4	1461.7	1192.5	1186.0	1166.8	1198.9	1198.9
77.5°	8520.3	7449.6	3859.5	1455.3	961.7	936.0	968.1	968.1	968.1	968.1
80°	1974.6	2186.2	1378.4	884.7	698.8	698.8	769.3	775.7	743.7	730.9
82.5°	673.2	897.5	756.5	557.8	461.6	519.3	583.4	596.2	493.7	500.1
85°	333.4	525.7	410.3	320.6	237.2	320.6	378.3	397.5	339.8	327.0
87.5°	153.9	230.8	153.9	109.0	83.3	115.4	109.0	89.8	51.3	51.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)