

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: P481188

Luminaire Tested: **IFLD-L-SA7E-727-U-RW**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481188
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7E-727-U-RW
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ RW distribution lens
Light Source: (112) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

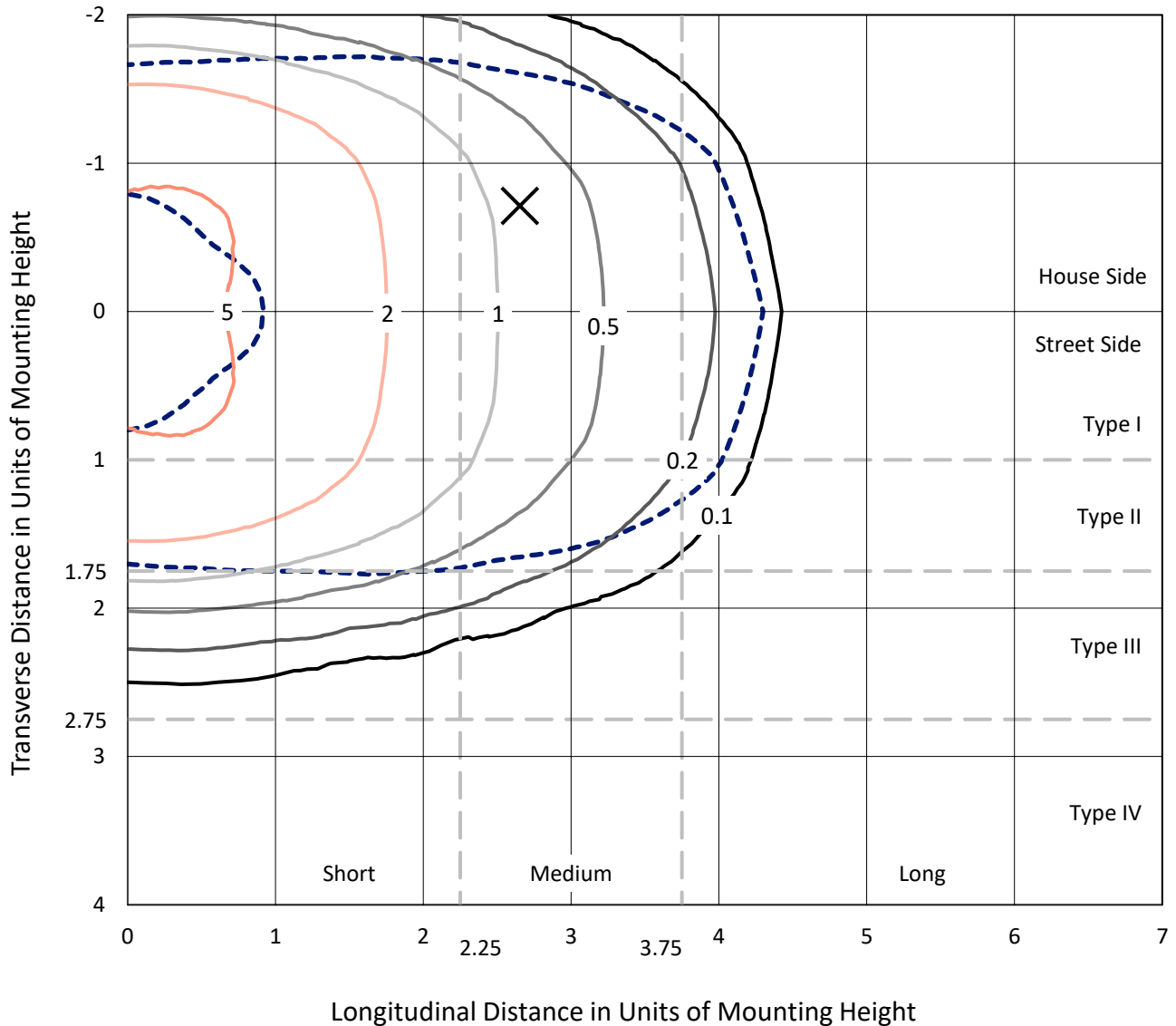
Lumens per Lamp: N/A
Luminaire Lumens: 48627.9 lumens
Efficiency: N/A
Efficacy: 91.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B5 - U0 - G5

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

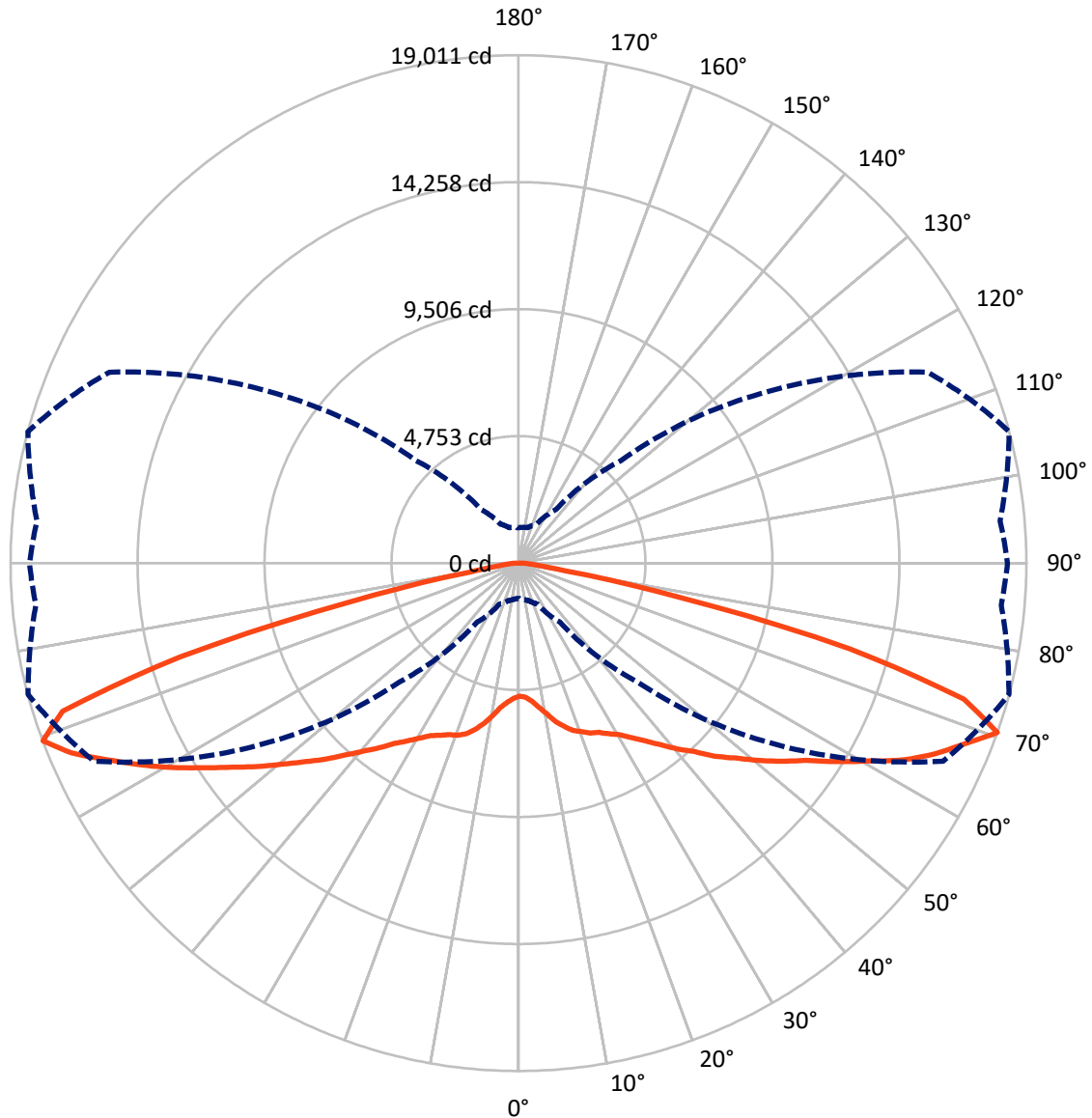
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.6 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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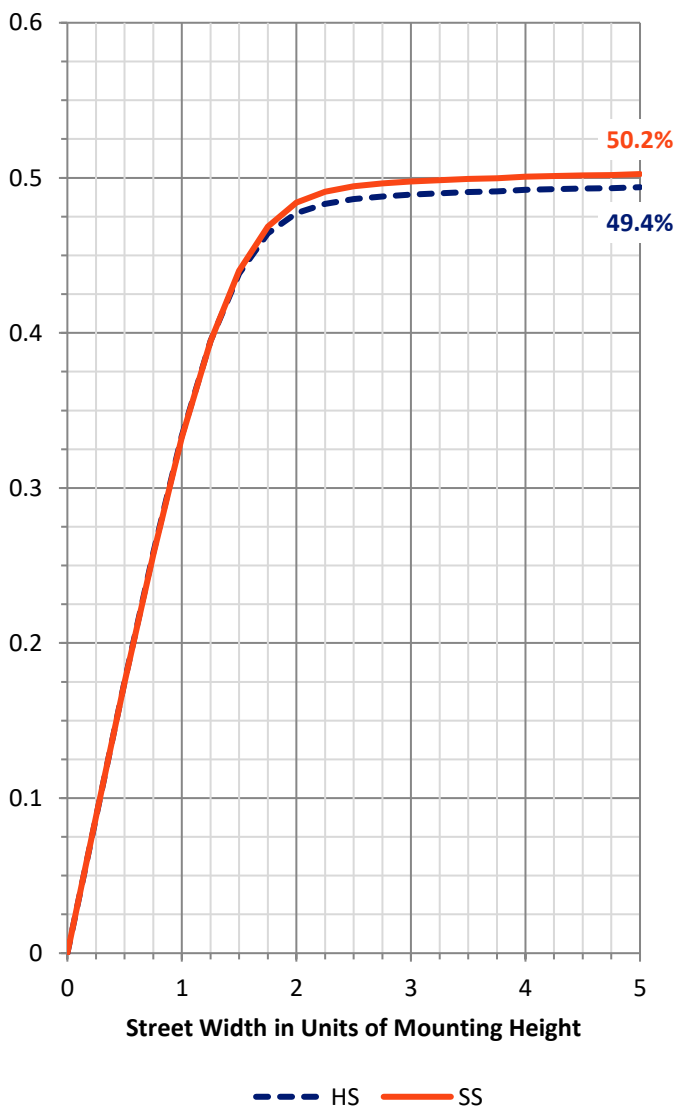
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	24141.0	0.0	24141.0
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	24486.9	0.0	24486.9
	% Fixture	50.4	0.0	50.4
Total	Lumens	48627.9	0.0	48627.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	495.6	1.0
10°-20°	1687.6	3.5
20°-30°	3267.7	6.7
30°-40°	5527.0	11.4
40°-50°	8817.2	18.1
50°-60°	12068.8	24.8
60°-70°	11375.7	23.4
70°-80°	5011.3	10.3
80°-90°	377.1	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°	48627.9	100.0
0°-180°	48627.9	100.0

Coefficient of Utilization

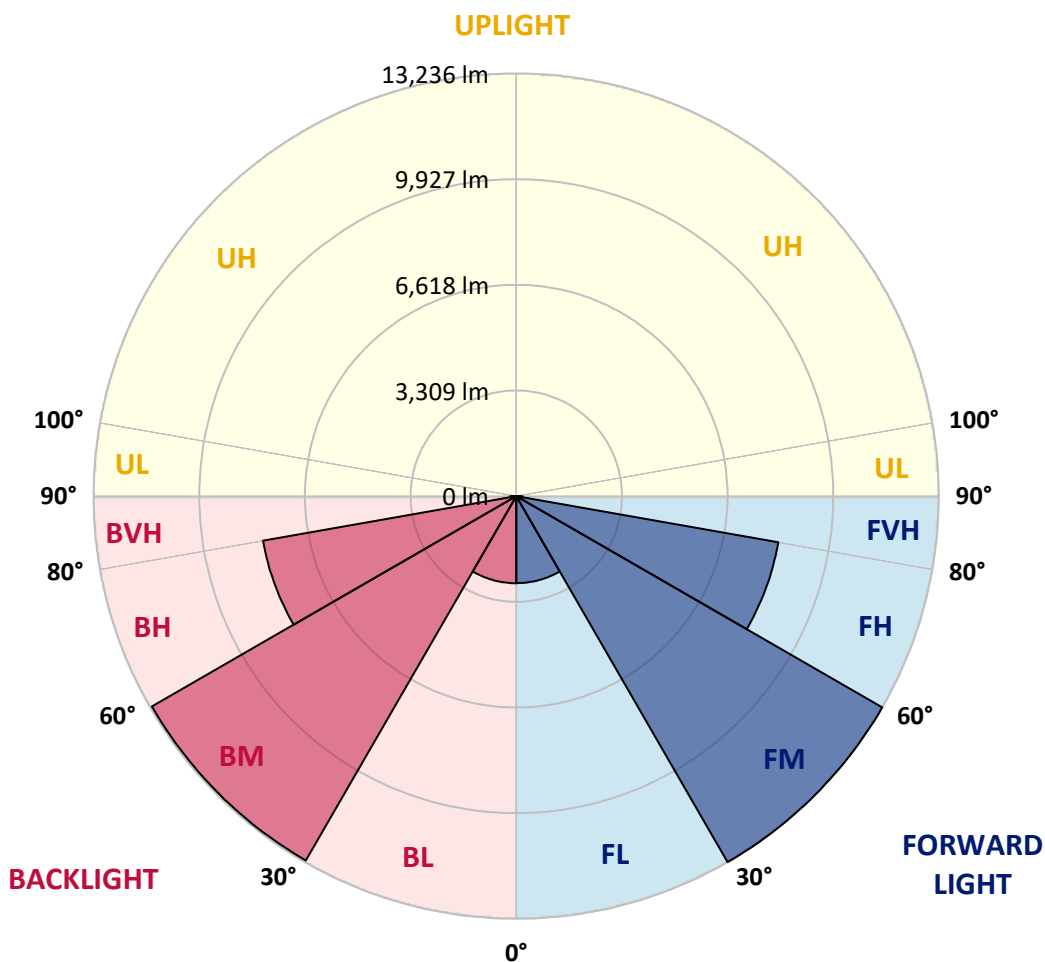


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2723.9	5.6			
FM (30°-60°)	13236.1	27.2			
FH (60°-80°)	8334.3	17.1			G4/12000
FVH (80°-90°)	192.6	0.4			G2/225
BL (0°-30°)	2726.9	5.6	B4/5000		
BM (30°-60°)	13176.9	27.1	B5		
BH (60°-80°)	8052.7	16.6	B5		G5
BVH (80°-90°)	184.4	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°	4979.5	4979.5	4979.5	4979.5	4979.5	4979.5	4979.5	4979.5	4979.5	4979.5	4979.5
2.5°	4948.0	4948.0	4942.8	4969.0	4995.2	5005.7	5026.6	5031.9	5063.3	5037.1	5089.5
5°	4932.3	4927.0	4969.0	5031.9	5031.9	5100.0	5141.9	5199.6	5215.3	5246.8	5257.3
7.5°	5042.4	5031.9	5010.9	5079.0	5136.7	5241.5	5299.2	5398.8	5435.5	5477.4	5524.6
10°	5110.5	5110.5	5089.5	5210.1	5262.5	5404.0	5529.8	5629.4	5770.9	5818.1	5823.3
12.5°	5121.0	5136.7	5199.6	5356.8	5503.6	5687.1	5781.4	5970.1	6111.6	6200.7	6232.2
15°	5278.2	5246.8	5314.9	5529.8	5744.7	5907.2	6074.9	6211.2	6415.6	6530.9	6604.3
17.5°	5419.7	5388.3	5514.1	5770.9	5991.1	6242.7	6389.4	6536.2	6682.9	6787.8	6793.0
20°	5645.1	5671.3	5781.4	6059.2	6347.5	6567.6	6735.4	6761.6	6835.0	6987.0	6960.8
22.5°	5922.9	5902.0	6132.6	6436.6	6751.1	6934.5	7028.9	6960.8	6924.1	7086.5	7123.2
25°	6200.7	6263.6	6473.3	6756.3	7133.7	7380.1	7406.3	7217.6	7081.3	7139.0	7123.2
27.5°	6625.3	6635.8	6855.9	7191.4	7574.0	7788.9	7773.2	7505.9	7243.8	7249.0	7259.5
30°	7170.4	7118.0	7359.1	7663.1	8040.5	8234.4	8260.7	7878.0	7526.8	7422.0	7448.2
32.5°	7694.6	7757.5	7967.1	8313.1	8590.9	8700.9	8643.3	8302.6	7846.6	7705.0	7720.8
35°	8365.5	8355.0	8643.3	8936.8	9146.5	9167.4	9120.3	8622.3	8192.5	8009.1	7935.7
37.5°	9083.6	9177.9	9366.6	9607.7	9827.9	9838.4	9581.5	9183.2	8653.8	8349.8	8438.9
40°	9885.5	9990.4	10126.6	10477.8	10640.3	10472.6	10210.5	9670.6	9120.3	8852.9	8894.9
42.5°	10593.1	10640.3	10918.1	11332.2	11410.8	11337.4	10949.6	10294.4	9654.9	9361.4	9382.3
45°	11243.1	11306.0	11667.6	12039.8	12223.2	12097.4	11646.7	11022.9	10278.6	10027.0	9927.5
47.5°	11840.6	11966.4	12317.6	12700.2	12983.3	12993.8	12438.1	11683.4	10897.1	10566.9	10561.7
50°	12244.2	12427.7	12773.6	13208.7	13622.7	13785.2	13229.6	12417.2	11573.3	11222.1	11185.4
52.5°	12464.4	12653.1	12999.0	13675.1	14136.4	14388.0	14125.9	13103.8	12364.8	11997.9	11940.2
55°	12197.0	12322.8	12888.9	13837.6	14550.5	14964.6	14791.6	14052.5	13151.0	12852.2	12904.6
57.5°	11059.6	11321.7	12018.8	13203.4	14540.0	15556.9	15541.1	14948.8	14057.8	13774.7	13785.2
60°	9104.5	9324.7	10184.3	11840.6	13953.0	15798.0	16353.6	15818.9	15074.6	14744.4	14733.9
62.5°	6426.1	6703.9	7699.8	9508.1	12223.2	15462.5	17286.6	16914.4	16070.5	15829.4	15918.5
65°	3595.7	3763.4	4685.9	6321.3	9314.2	13617.5	17454.3	18051.8	17082.1	16715.2	16731.0
67.5°	1923.6	1986.5	2416.3	3317.9	5697.5	10498.8	15761.3	18707.0	18177.6	17543.4	17443.8
70°	1320.9	1341.8	1451.9	1698.3	2694.1	6279.4	11887.8	17538.2	19000.5	18135.7	18303.4
72.5°	1116.4	1106.0	1132.2	1158.4	1410.0	2809.5	6976.5	13496.9	17936.5	17611.5	17548.6
75°	969.7	964.4	974.9	948.7	980.2	1237.0	3087.3	8412.7	13130.0	14655.3	14891.2
77.5°	802.0	807.2	812.4	786.2	775.7	817.7	1242.2	3695.3	6462.8	7133.7	7694.6
80°	608.0	618.5	660.4	634.2	592.3	597.5	733.8	1237.0	1855.5	1682.5	1734.9
82.5°	414.1	419.3	508.4	477.0	445.5	403.6	471.7	639.5	723.3	550.4	482.2
85°	293.5	288.3	330.2	304.0	283.0	204.4	283.0	361.7	435.0	272.6	246.4
87.5°	68.1	68.1	136.3	110.1	104.8	83.9	110.1	141.5	188.7	120.6	110.1
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°	4979.5	4979.5	4979.5	4979.5	4979.5	4979.5	4979.5	4979.5	4979.5	4979.5
2.5°	5073.8	5026.6	5026.6	5016.1	4974.2	4963.7	4927.0	4937.5	4911.3	4885.1
5°	5252.0	5189.1	5189.1	5100.0	5016.1	5005.7	4963.7	4963.7	4921.8	4932.3
7.5°	5498.4	5440.7	5346.4	5267.7	5152.4	5105.2	5026.6	5016.1	5005.7	4984.7
10°	5791.9	5718.5	5624.2	5461.7	5367.3	5278.2	5199.6	5089.5	5063.3	5068.6
12.5°	6190.2	6074.9	5870.5	5729.0	5608.4	5493.1	5377.8	5215.3	5178.6	5194.4
15°	6473.3	6326.5	6122.1	6069.7	5907.2	5765.7	5577.0	5393.5	5330.6	5314.9
17.5°	6703.9	6583.4	6462.8	6384.2	6253.1	6080.2	5818.1	5608.4	5466.9	5451.2
20°	6892.6	6735.4	6709.2	6756.3	6593.8	6478.5	6158.8	5902.0	5713.3	5634.6
22.5°	7007.9	6908.3	6981.7	7023.6	7013.2	6819.2	6489.0	6190.2	5954.4	5881.0
25°	7133.7	7018.4	7280.5	7422.0	7458.7	7139.0	6882.1	6489.0	6258.4	6211.2
27.5°	7196.6	7238.6	7542.6	7841.3	7815.1	7568.8	7222.8	6871.6	6688.2	6604.3
30°	7380.1	7448.2	7909.5	8244.9	8250.2	8009.1	7747.0	7348.6	7144.2	7107.5
32.5°	7710.3	7794.2	8286.9	8643.3	8706.2	8522.7	8260.7	8014.3	7804.6	7720.8
35°	7961.9	8176.8	8732.4	9057.4	9225.1	9115.0	8968.3	8711.4	8491.3	8417.9
37.5°	8323.5	8622.3	9157.0	9597.2	9785.9	9775.5	9665.4	9387.6	9204.1	9141.2
40°	8842.5	9141.2	9628.7	10210.5	10561.7	10546.0	10483.1	10268.2	9995.6	9964.1
42.5°	9392.8	9639.2	10273.4	10939.1	11442.3	11389.8	11222.1	10970.5	10781.8	10739.9
45°	9927.5	10310.1	10897.1	11751.5	12128.9	12259.9	12060.8	11631.0	11416.1	11389.8
47.5°	10598.4	10902.4	11636.2	12401.5	12962.3	12983.3	12642.6	12244.2	11851.1	11935.0
50°	11195.9	11599.5	12343.8	13182.4	13853.4	13612.3	13177.2	12679.3	12396.2	12286.1
52.5°	11835.4	12328.1	13192.9	14047.3	14419.4	14178.3	13470.7	12915.1	12485.3	12438.1
55°	12768.4	13025.2	14157.4	14812.6	14933.1	14424.7	13381.6	12595.4	12039.8	11903.5
57.5°	13717.1	14015.8	15006.5	15572.6	15446.8	14288.4	12805.1	11589.0	10860.4	10666.5
60°	14676.3	15043.2	15876.6	16395.5	15745.6	13350.2	11174.9	9607.7	8758.6	8585.6
62.5°	15745.6	16222.5	16966.8	17150.3	14859.7	11494.7	8868.7	6934.5	6074.9	5786.6
65°	16694.3	17181.7	18099.0	16993.0	12978.0	8575.1	5734.2	3962.6	3328.4	3097.7
67.5°	17475.3	18025.6	18476.4	15037.9	9502.9	5021.4	2987.7	2086.1	1850.3	1766.4
70°	18093.8	19011.0	16903.9	11054.4	5430.2	2447.8	1614.4	1373.3	1341.8	1320.9
72.5°	17553.9	17433.3	12621.6	6378.9	2379.7	1347.1	1168.9	1132.2	1126.9	1132.2
75°	14356.5	12805.1	7547.8	2772.8	1195.1	974.9	969.7	954.0	980.2	980.2
77.5°	6966.0	6090.7	3155.4	1189.8	786.2	765.3	791.5	791.5	791.5	791.5
80°	1614.4	1787.4	1126.9	723.3	571.3	571.3	629.0	634.2	608.0	597.5
82.5°	550.4	733.8	618.5	456.0	377.4	424.6	477.0	487.5	403.6	408.8
85°	272.6	429.8	335.5	262.1	193.9	262.1	309.3	325.0	277.8	267.3
87.5°	125.8	188.7	125.8	89.1	68.1	94.3	89.1	73.4	41.9	41.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)