

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: P319392

Luminaire Tested: **GAN-SA8A-750-U-SL2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319392
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-20)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA8A-750-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36588 lumens
Efficiency: N/A
Efficacy: 142.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

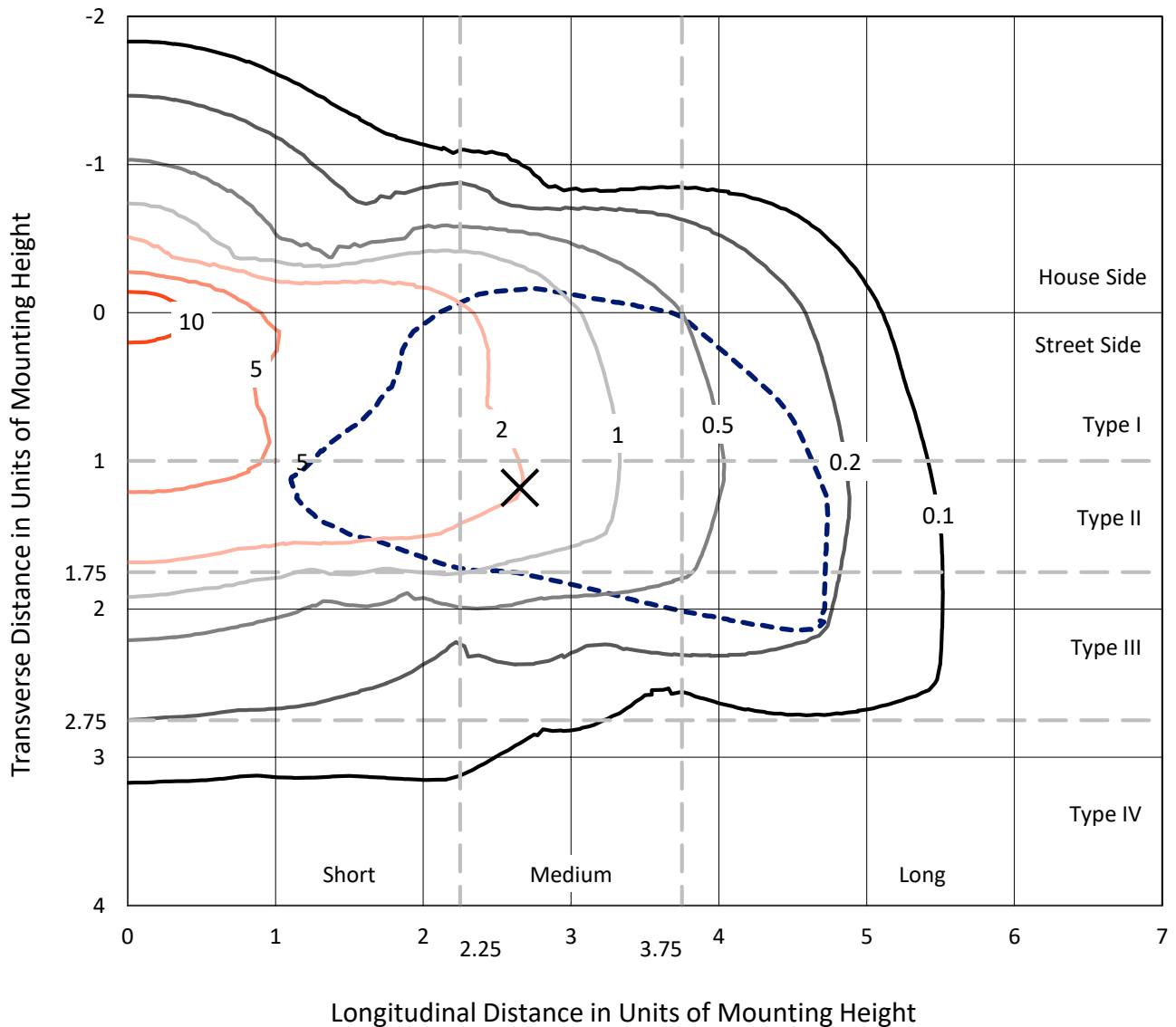
Input Watts (W): 257
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

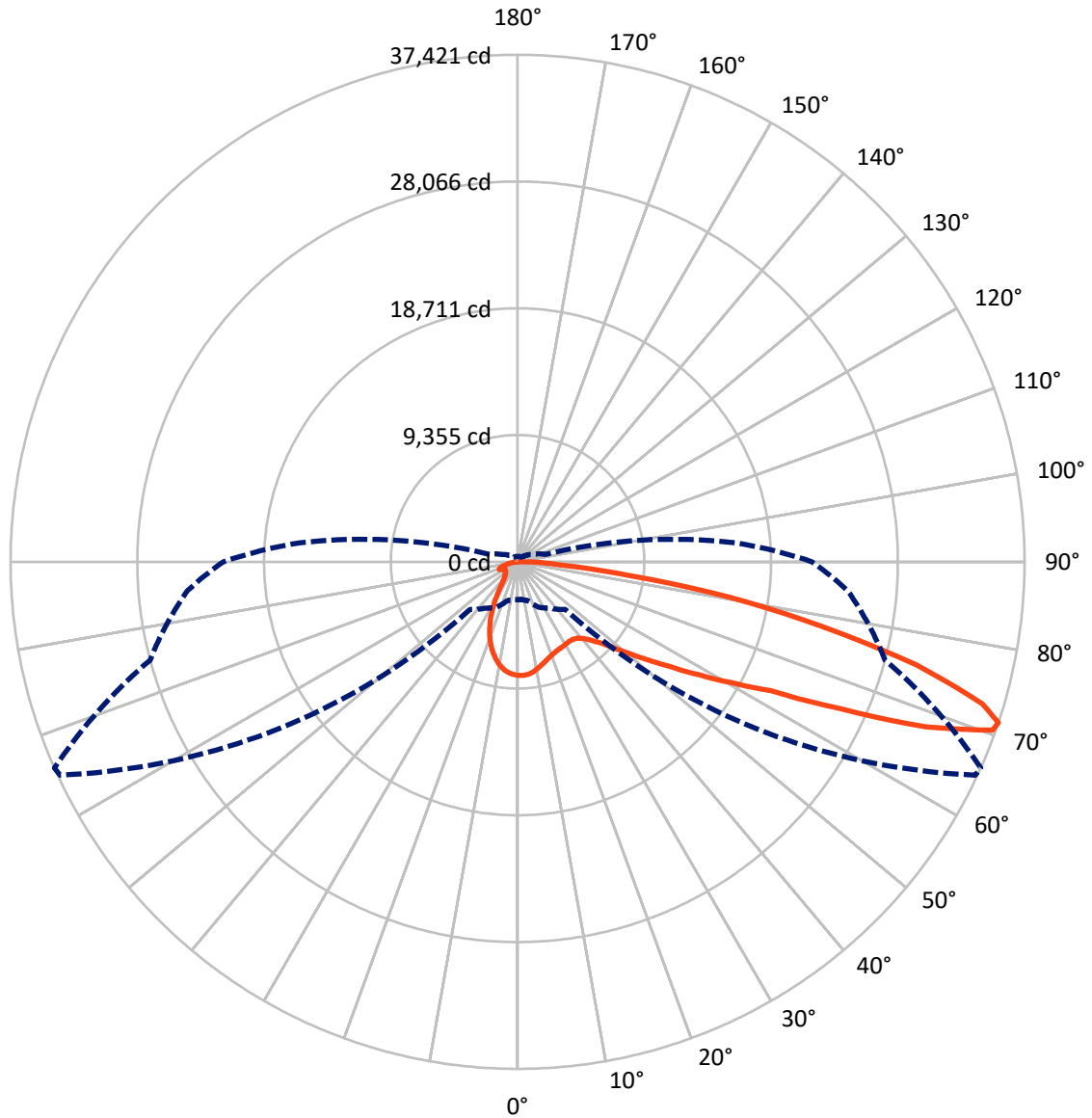
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.4 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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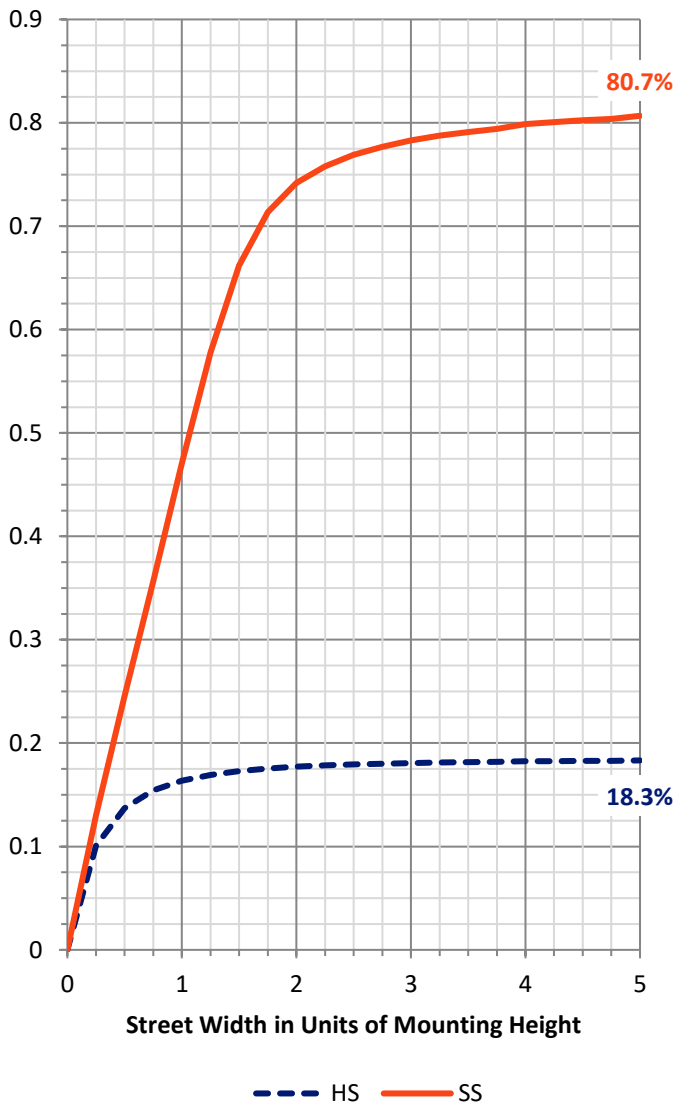
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6780.7	0.0	6780.7
	% Fixture	18.5	0.0	18.5
Street Side	Lumens	29807.2	0.0	29807.2
	% Fixture	81.5	0.0	81.5
Total	Lumens	36588.0	0.0	36588.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	737.8	2.0
10°-20°	1769.5	4.8
20°-30°	2376.9	6.5
30°-40°	3126.8	8.5
40°-50°	4548.6	12.4
50°-60°	7105.5	19.4
60°-70°	8900.7	24.3
70°-80°	6789.3	18.6
80°-90°	1232.9	3.4
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°	36588.0	100.0
0°-180°	36588.0	100.0

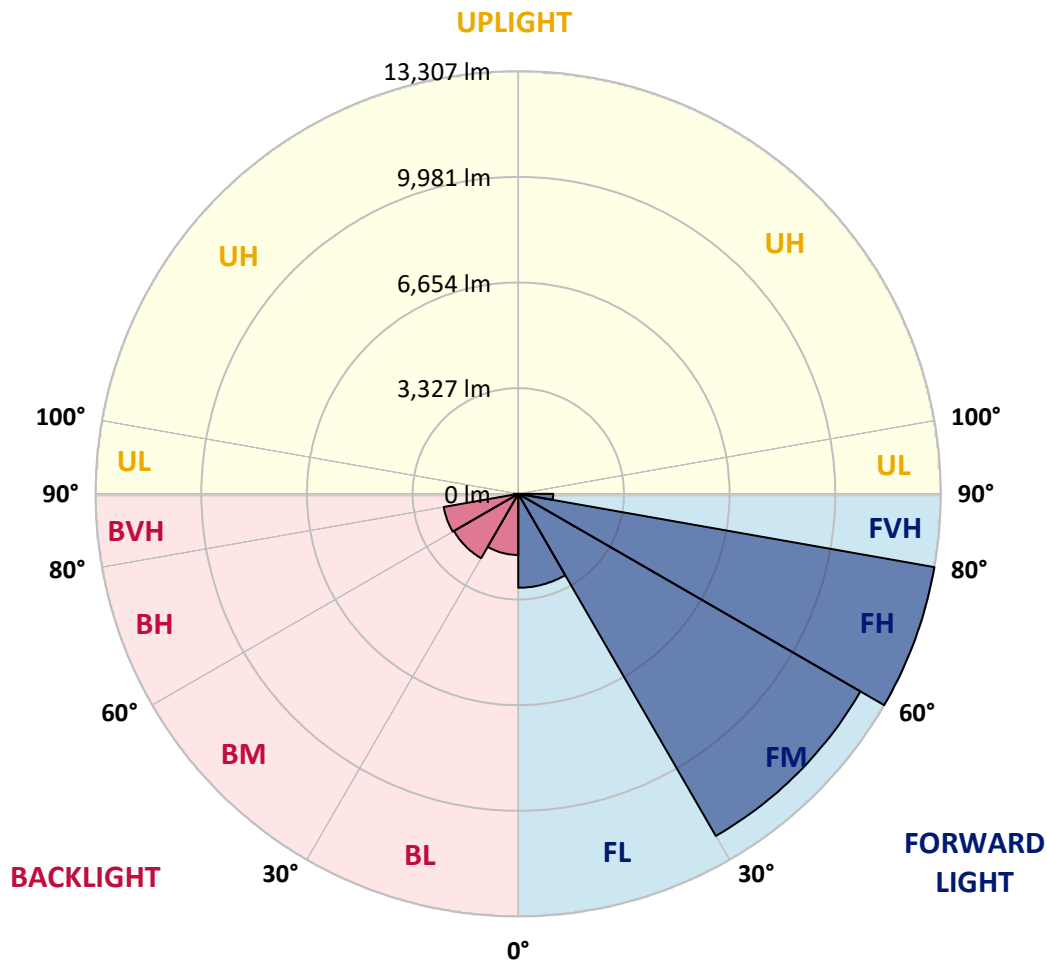


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2958.6	8.1			
FM (30°-60°)	12441.7	34.0			
FH (60°-80°)	13307.4	36.4			G5
FVH (80°-90°)	1099.4	3.0			G5
BL (0°-30°)	1925.6	5.3	B3/2500		
BM (30°-60°)	2339.1	6.4	B2/2500		
BH (60°-80°)	2382.6	6.5	B3/2500		G3/2500
BVH (80°-90°)	133.5	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	8381.6	8381.6	8381.6	8381.6	8381.6	8381.6	8381.6	8381.6	8381.6	8381.6	8381.6
2.5°	8226.2	8213.6	8251.5	8290.6	8305.8	8331.1	8369.0	8390.4	8389.2	8393.0	8380.3
5°	7680.5	7664.1	7739.9	7801.8	7920.5	8054.4	8217.4	8333.6	8336.1	8401.8	8419.5
7.5°	7163.8	7152.5	7239.6	7339.4	7477.1	7681.8	7945.8	8195.9	8211.1	8389.2	8451.1
10°	6749.5	6747.0	6831.6	6940.2	7100.7	7329.3	7632.5	7998.8	8021.6	8328.5	8456.1
12.5°	6426.1	6431.2	6504.4	6628.2	6797.5	7036.3	7364.7	7777.8	7814.4	8232.5	8427.1
15°	6187.4	6207.6	6266.9	6392.0	6558.7	6801.3	7138.6	7573.1	7628.7	8125.2	8410.7
17.5°	6050.9	6073.7	6115.3	6218.9	6375.6	6609.3	6928.9	7405.1	7455.6	8043.1	8411.9
20°	6010.5	6029.4	6053.4	6116.6	6249.3	6461.5	6763.4	7253.5	7307.8	7977.4	8424.6
22.5°	6090.1	6104.0	6106.5	6101.5	6182.3	6355.4	6643.4	7142.4	7200.5	7934.4	8433.4
25°	6260.6	6279.6	6265.7	6218.9	6192.4	6298.5	6581.5	7069.1	7127.2	7902.8	8415.7
27.5°	6517.1	6519.6	6508.2	6447.6	6322.5	6304.8	6562.5	7026.1	7081.7	7866.2	8379.1
30°	6865.7	6882.1	6861.9	6779.8	6575.2	6405.9	6585.3	6984.5	7035.0	7819.5	8319.7
32.5°	7273.7	7314.2	7312.9	7227.0	6933.9	6632.0	6678.8	6959.2	6998.4	7770.2	8247.7
35°	7696.9	7752.5	7856.1	7819.5	7456.9	6989.5	6858.1	6999.6	7026.1	7763.9	8197.2
37.5°	8136.5	8192.1	8405.6	8504.1	8079.7	7501.1	7141.1	7142.4	7155.0	7840.9	8193.4
40°	8596.4	8655.7	8976.6	9233.0	8886.9	8149.2	7597.1	7440.5	7426.6	8030.4	8267.9
42.5°	9240.6	9293.7	9679.0	10006.1	9782.5	8979.1	8227.5	7900.3	7871.3	8401.8	8506.7
45°	10055.4	10100.9	10510.2	10860.1	10745.1	9926.5	9019.5	8533.2	8528.1	9020.8	8990.5
47.5°	11024.3	11059.7	11427.3	11765.8	11807.5	11016.7	10015.0	9509.7	9427.6	9869.7	9739.6
50°	12033.6	12072.8	12322.9	12686.7	12996.2	12475.8	11295.9	10706.0	10596.1	10990.2	10800.7
52.5°	12701.9	12753.7	12971.0	13432.0	14332.7	14075.0	12810.5	12156.2	11989.4	12348.2	12202.9
55°	12403.8	12520.0	12852.2	13591.2	15401.4	16518.1	14678.9	13847.6	13659.4	13957.5	13871.6
57.5°	11048.3	11207.5	11661.0	12801.7	15551.8	18670.7	17503.5	15839.8	15707.1	15621.2	15660.4
60°	8571.1	8723.9	9286.1	10772.9	14504.5	20242.2	21754.3	18295.5	18103.5	17291.2	17326.6
62.5°	6066.1	5989.0	6374.3	7462.0	11786.0	20426.6	26591.2	21579.9	20948.3	19054.7	18899.3
65°	4626.0	4608.3	4781.4	5127.5	7138.6	18219.7	29472.7	27100.3	26113.7	21129.0	20762.6
67.5°	3801.1	3769.5	3940.0	4444.1	4596.9	11754.5	29535.8	33504.9	32536.0	23711.0	22917.7
70°	3125.3	3089.9	3249.1	3899.6	4248.3	5961.2	24858.1	37255.5	37203.7	26980.3	24544.8
71°	2801.9	2776.6	2967.4	3689.9	4173.7	4968.3	21462.5	37265.6	37421.0	28086.9	24448.8
72.5°	2281.4	2290.3	2492.4	3284.4	4118.2	4387.2	15774.1	35528.6	35857.1	29141.7	23575.9
75°	1515.9	1523.5	1788.7	2526.5	3993.1	4292.5	8669.6	29812.5	30416.3	28510.1	21513.0
77.5°	1018.2	1015.6	1196.3	1733.2	3479.0	4292.5	5083.3	22297.5	22960.7	22685.3	16585.1
80°	701.1	696.0	823.6	1196.3	2633.9	4344.3	3929.9	15626.3	15827.1	12250.9	6740.7
82.5°	429.5	433.3	538.1	845.1	1792.5	3909.7	3710.1	8520.6	8302.0	3436.0	1683.9
85°	246.3	245.1	343.6	572.2	1150.8	3299.6	3617.9	3667.2	3364.0	1034.6	608.9
87.5°	88.4	94.7	184.4	317.1	659.4	2297.8	3069.7	1907.5	1719.3	467.4	275.4
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°	8381.6	8381.6	8381.6	8381.6	8381.6	8381.6	8381.6	8381.6	8381.6	8381.6	8381.6
2.5°	8371.5	8379.1	8370.2	8319.7	8276.8	8207.3	8168.1	8113.8	8097.4	8089.8	8110.0
5°	8403.1	8405.6	8331.1	8198.4	8049.4	7873.8	7747.5	7592.1	7518.8	7487.2	7507.4
7.5°	8432.1	8420.8	8257.8	8003.9	7728.5	7422.8	7151.2	6902.3	6757.1	6697.7	6702.8
10°	8435.9	8387.9	8126.4	7733.6	7306.6	6858.1	6441.3	6057.2	5814.7	5656.8	5704.8
12.5°	8396.8	8315.9	7933.2	7383.6	6791.2	6179.8	5616.4	5040.3	4694.2	4533.8	4538.8
15°	8366.4	8219.9	7695.7	6971.8	6176.0	5366.2	4596.9	3919.8	3551.0	3386.7	3309.7
17.5°	8341.2	8116.3	7420.3	6508.2	5449.6	4422.6	3497.9	2894.1	2692.0	2644.0	2623.8
20°	8305.8	8006.4	7113.3	5971.3	4622.2	3366.5	2554.3	2256.1	2257.4	2313.0	2320.6
22.5°	8256.5	7881.4	6786.1	5368.8	3734.1	2452.0	2002.2	1916.3	2003.5	2109.6	2128.6
25°	8183.3	7733.6	6422.3	4703.0	2847.3	1884.8	1710.4	1706.6	1812.8	1923.9	1940.3
27.5°	8079.7	7540.3	6018.1	3988.1	2098.2	1601.8	1532.3	1558.8	1637.2	1718.0	1724.3
30°	7940.7	7315.4	5572.2	3233.9	1644.7	1426.2	1418.6	1442.6	1490.6	1547.5	1552.5
32.5°	7787.9	7086.8	5095.9	2503.7	1408.5	1331.5	1339.0	1350.4	1373.1	1395.9	1400.9
35°	7648.9	6853.1	4608.3	1902.4	1296.1	1269.6	1264.5	1262.0	1264.5	1256.9	1258.2
37.5°	7559.2	6659.8	4100.5	1514.6	1231.7	1215.2	1200.1	1181.1	1159.7	1147.0	1149.5
40°	7526.4	6515.8	3586.3	1308.7	1178.6	1167.2	1138.2	1097.8	1072.5	1064.9	1064.9
42.5°	7614.8	6441.3	3089.9	1205.1	1134.4	1115.4	1067.4	1020.7	1001.7	1000.5	999.2
45°	7885.1	6471.6	2617.4	1148.3	1094.0	1057.3	994.2	955.0	942.4	944.9	943.6
47.5°	8370.2	6662.3	2213.2	1110.4	1053.5	1005.5	934.8	903.2	888.1	888.1	889.3
50°	9195.1	7108.3	1891.1	1078.8	1019.4	957.5	891.8	852.7	832.5	831.2	831.2
52.5°	10396.5	7906.6	1690.2	1052.3	981.5	914.6	848.9	799.6	775.6	770.6	768.1
55°	11902.3	9051.1	1634.6	1034.6	931.0	867.8	797.1	747.8	721.3	709.9	708.7
57.5°	13586.2	10443.2	1744.5	1013.1	879.2	812.3	740.3	693.5	665.7	651.8	650.6
60°	15290.3	11962.9	2193.0	982.8	836.3	751.6	682.2	639.2	611.4	596.2	593.7
62.5°	16996.9	13564.7	3108.8	980.3	805.9	693.5	622.8	586.1	559.6	543.2	539.4
65°	18922.1	15318.1	4149.7	1047.2	795.8	640.5	562.1	533.1	510.3	495.2	493.9
67.5°	21132.8	17297.6	4049.9	1184.9	829.9	592.5	505.3	482.6	466.1	453.5	452.2
70°	22169.9	16988.1	2517.6	1282.2	878.0	545.7	451.0	434.6	421.9	413.1	409.3
71°	21735.3	16130.3	2110.9	1270.8	872.9	525.5	429.5	416.9	404.2	396.7	392.9
72.5°	20550.4	14710.4	1761.0	1182.4	816.1	488.9	401.7	389.1	377.7	368.9	366.3
75°	18440.8	13137.7	1409.8	944.9	650.6	413.1	352.4	338.5	329.7	324.7	319.6
77.5°	13555.8	9375.8	1090.2	746.6	478.8	337.3	300.7	290.5	281.7	274.1	270.3
80°	5193.2	3631.8	733.9	557.1	351.2	266.5	242.5	237.5	228.6	223.6	223.6
82.5°	1398.4	1085.1	391.6	337.3	235.0	194.5	185.7	183.2	175.6	165.5	166.7
85°	565.9	478.8	219.8	185.7	144.0	115.0	125.1	126.3	117.5	104.8	106.1
87.5°	248.9	203.4	122.5	82.1	63.2	44.2	56.8	56.8	51.8	43.0	39.2
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)