

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: McGRAW-EDISON

Report Number: P532751

Luminaire Tested: **GALN-SA8A-827-U-AFL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532751
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-27)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8A-827-U-AFL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20251 lumens
Efficiency: N/A
Efficacy: 83.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

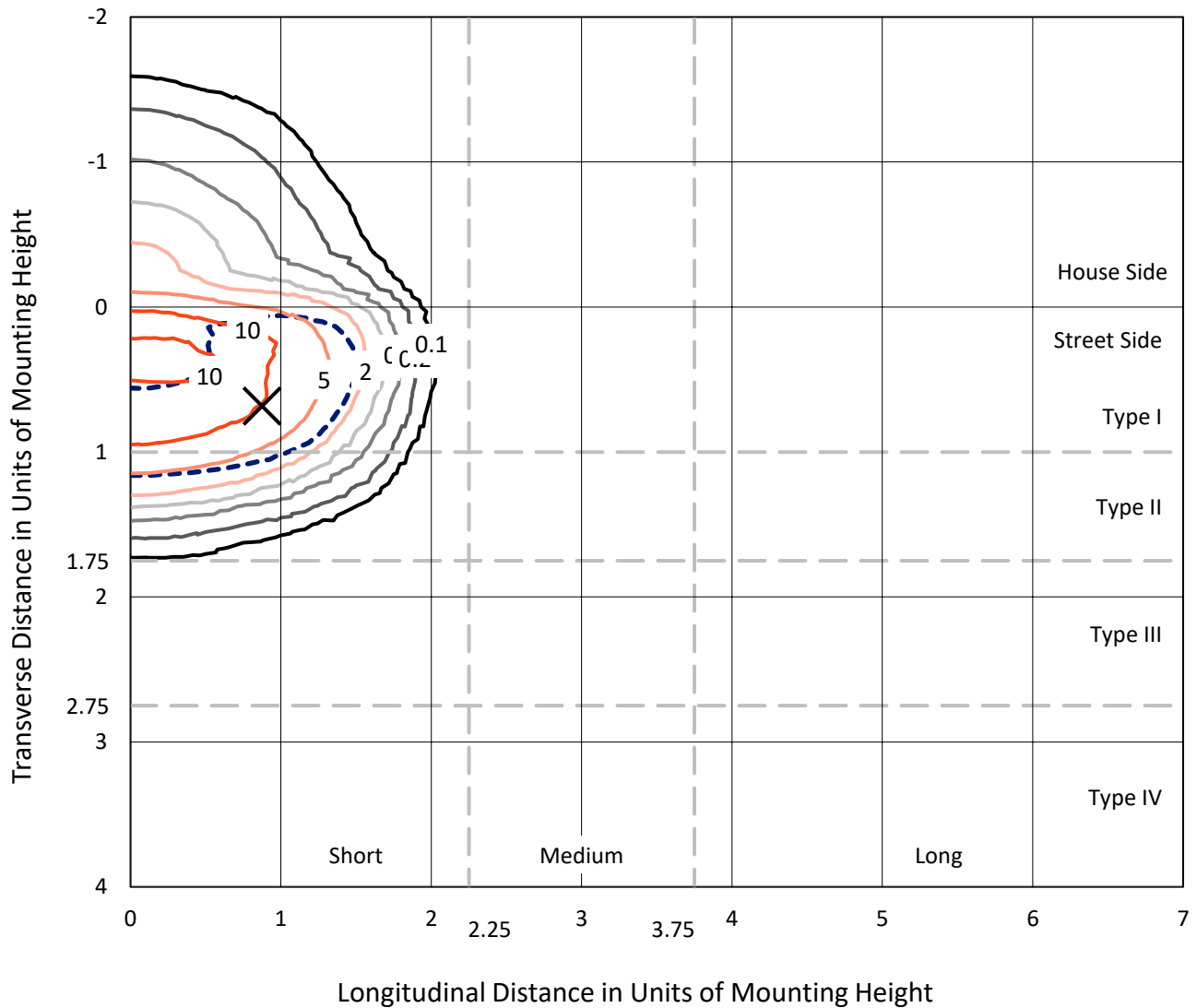
Input Watts (W): 244
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

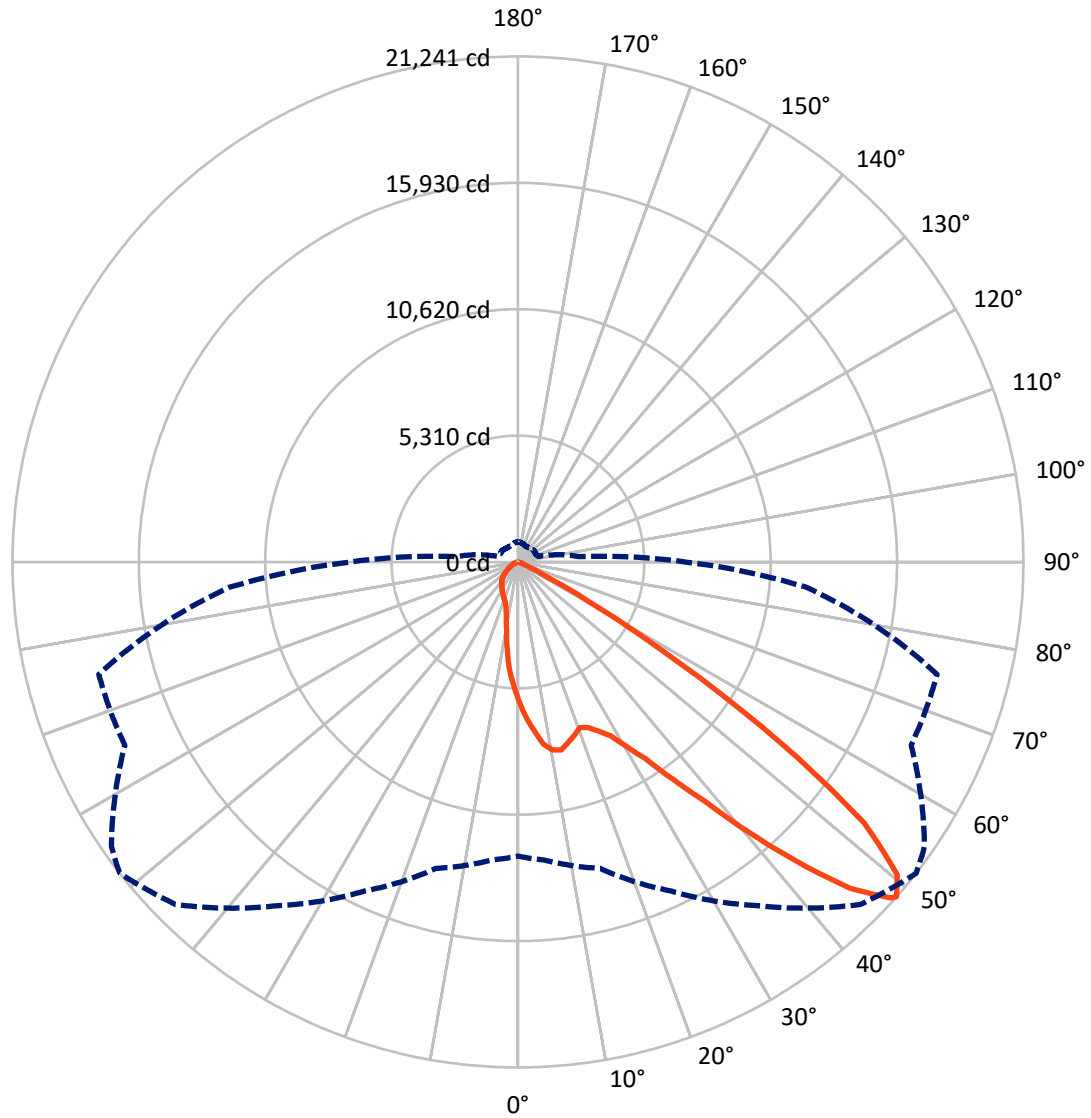
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral - - - Horizontal Cone Through 48-Deg Vertical

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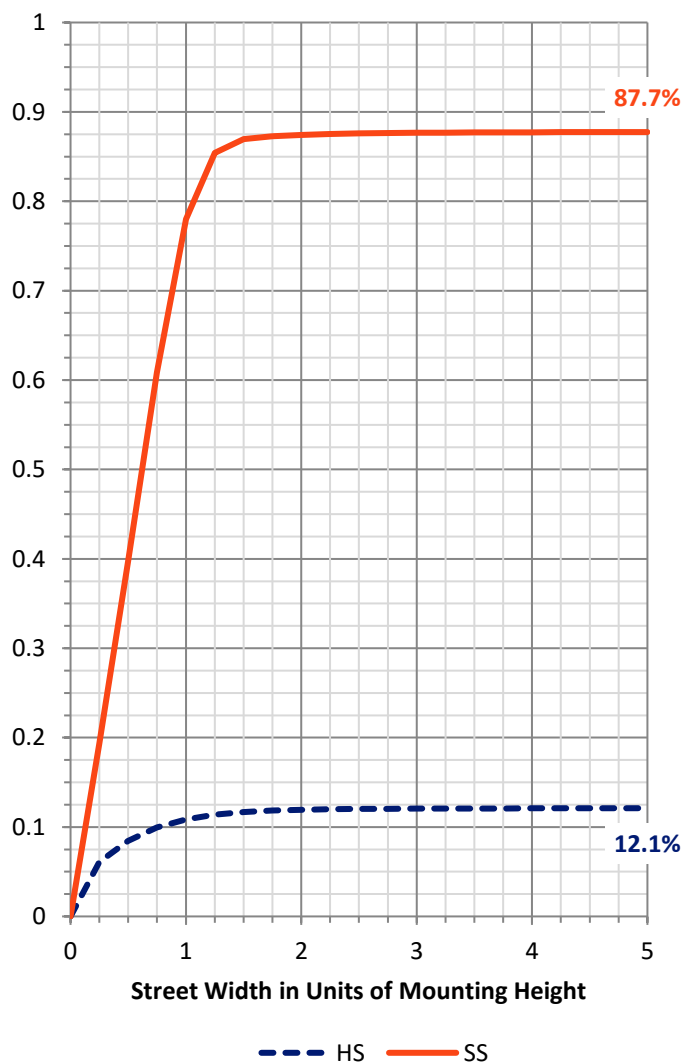
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2465.7	0.0	2465.7
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	17785.3	0.0	17785.3
	% Fixture	87.8	0.0	87.8
Total	Lumens	20251.0	0.0	20251.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	535.3	2.6
10°-20°	1398.9	6.9
20°-30°	2388.4	11.8
30°-40°	4398.3	21.7
40°-50°	6830.5	33.7
50°-60°	4110.8	20.3
60°-70°	475.5	2.3
70°-80°	92.0	0.5
80°-90°	21.3	0.1
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°	20251.0	100.0
0°-180°	20251.0	100.0

Coefficient of Utilization



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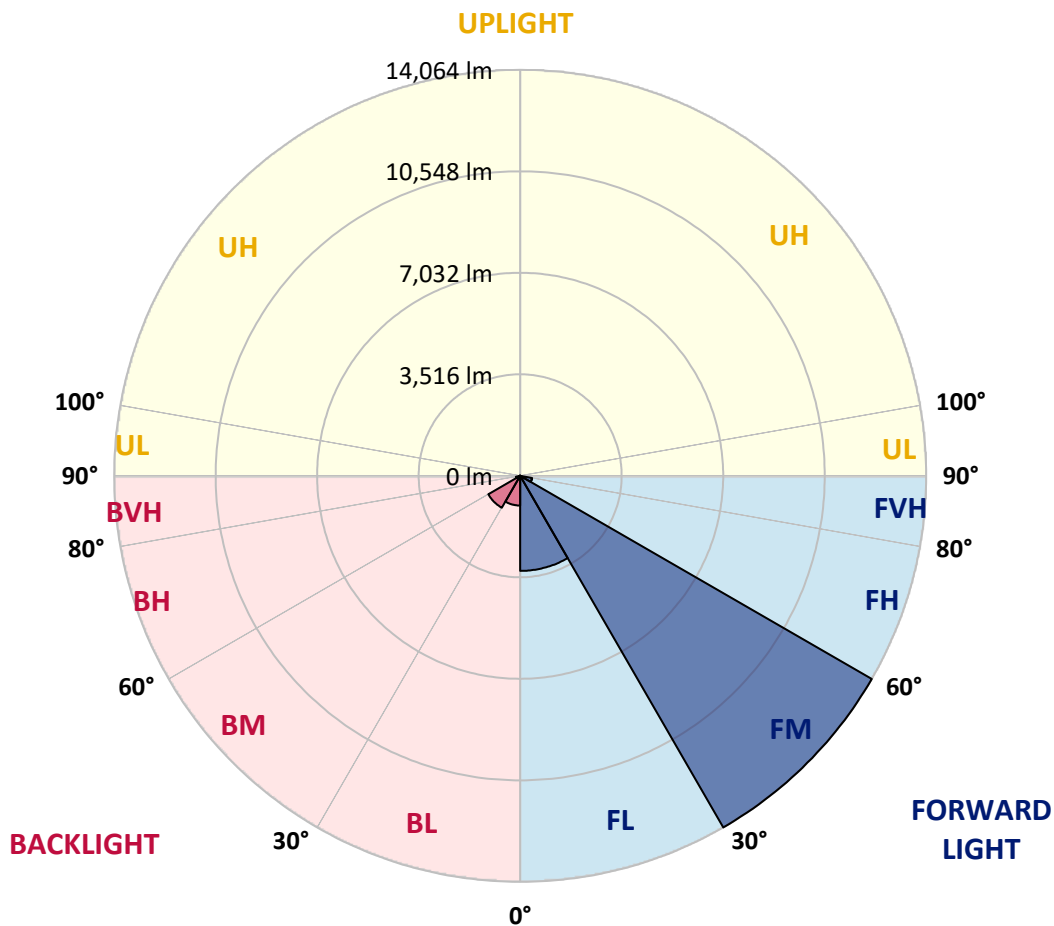
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3292.6	16.3			
FM (30°-60°)	14063.9	69.4			
FH (60°-80°)	418.7	2.1			G0/660
FVH (80°-90°)	10.1	0.1			G1/100
BL (0°-30°)	1030.0	5.1	B3/2500		
BM (30°-60°)	1275.7	6.3	B2/2500		
BH (60°-80°)	148.8	0.7	B1/500		G1/500
BVH (80°-90°)	11.2	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	5848.2	5848.2	5848.2	5848.2	5848.2	5848.2	5848.2	5848.2	5848.2	5848.2	5848.2
2.5°	7088.0	6925.7	6940.4	6834.2	6772.2	6671.8	6536.0	6509.4	6361.8	6161.1	5957.4
5°	7725.7	7687.3	7737.5	7584.0	7589.9	7424.6	7105.8	7111.7	6772.2	6444.5	6128.6
7.5°	7767.0	7678.5	7728.7	7864.5	7944.2	7914.6	7734.6	7578.1	7256.3	6775.1	6314.6
10°	6955.2	7123.5	7176.6	7401.0	7719.8	8056.3	8035.7	8044.5	7775.9	7147.1	6474.0
12.5°	6468.1	6355.9	6536.0	6671.8	7153.0	7805.4	8103.6	8168.5	8189.2	7507.2	6633.4
15°	6246.7	6246.7	6276.2	6314.6	6662.9	7265.2	7873.3	8062.2	8508.0	7979.6	6884.3
17.5°	6385.4	6379.5	6420.9	6341.2	6471.1	6934.5	7660.8	7876.3	8865.2	8443.1	7082.1
20°	6807.6	6828.3	6801.7	6571.4	6580.3	6928.6	7424.6	7764.1	9107.3	8844.6	7344.9
22.5°	7395.1	7406.9	7256.3	7005.4	6931.6	7102.8	7560.4	7820.2	9302.1	9325.8	7424.6
25°	8074.1	8026.8	7997.3	7643.0	7418.7	7566.3	7867.4	8018.0	9423.2	9739.0	7651.9
27.5°	9015.8	8921.3	8741.2	8425.4	8260.0	8050.4	8265.9	8513.9	9768.6	10317.7	7899.9
30°	10406.2	10323.6	9972.3	9564.9	9130.9	8924.3	8992.2	9128.0	10391.5	10987.8	8227.6
32.5°	12499.3	12325.1	11817.3	11040.9	10450.5	9880.8	9863.0	10007.7	10949.4	11914.8	8617.2
35°	14804.9	14751.8	14004.9	13204.8	12062.4	11182.6	11197.4	11274.2	12018.1	13131.0	9128.0
37.5°	16337.0	16629.3	16154.0	15294.9	14335.5	13077.9	12759.1	12785.6	13485.3	14571.7	10049.0
40°	17520.8	17272.9	17329.0	17128.2	16472.8	15616.7	14911.2	14772.4	15182.8	16165.8	10964.2
42.5°	17004.2	17016.0	17361.4	17836.7	17999.1	17937.1	17216.8	16954.0	16635.2	17470.7	11835.1
45°	15545.9	15849.9	16298.7	17556.3	18660.4	19696.6	19554.9	19117.9	17638.9	18503.9	12336.9
47.5°	13219.6	13207.8	13942.9	15578.3	18031.6	20458.2	21101.8	20794.7	18350.4	18388.8	12233.6
48°	12360.5	12573.1	13331.8	15256.6	17633.0	20346.0	21240.5	20853.8	18229.3	18235.3	12145.0
50°	9136.8	9098.4	10043.1	12404.8	15749.6	19117.9	20656.0	20957.1	18226.4	17458.8	11525.1
52.5°	4826.7	4992.0	5679.9	7799.5	11135.4	15646.2	18220.5	18689.9	17582.8	16189.4	10633.5
55°	2051.7	1853.9	2382.4	3521.9	6264.4	10453.5	13367.2	14412.3	14866.9	14326.6	9302.1
57.5°	732.1	800.0	921.1	1325.5	2633.3	5721.2	7970.7	8782.6	10300.0	10512.5	6338.2
60°	469.4	478.2	516.6	608.1	989.0	2205.2	3781.7	4428.2	5116.0	5281.3	2958.0
62.5°	363.1	366.1	383.8	398.5	469.4	856.1	1420.0	1682.7	1747.7	1502.6	776.4
65°	304.1	307.0	312.9	312.9	333.6	401.5	496.0	546.1	531.4	525.5	439.9
67.5°	233.2	239.1	250.9	250.9	262.7	245.0	274.5	292.3	330.6	401.5	374.9
70°	183.0	186.0	194.8	200.7	200.7	177.1	197.8	215.5	242.1	298.2	295.2
72.5°	141.7	147.6	153.5	153.5	144.7	121.0	141.7	156.5	174.2	206.6	200.7
75°	109.2	109.2	112.2	91.5	70.9	62.0	85.6	103.3	129.9	135.8	112.2
77.5°	29.5	32.5	29.5	26.6	29.5	44.3	56.1	64.9	82.7	82.7	73.8
80°	0.0	3.0	8.9	17.7	29.5	41.3	50.2	56.1	64.9	70.9	67.9
82.5°	0.0	3.0	8.9	17.7	26.6	32.5	44.3	47.2	53.1	62.0	62.0
85°	0.0	3.0	5.9	11.8	17.7	20.7	20.7	17.7	17.7	14.8	11.8
87.5°	0.0	0.0	3.0	5.9	5.9	8.9	8.9	8.9	8.9	8.9	8.9
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5848.2	5848.2	5848.2	5848.2	5848.2	5848.2	5848.2	5848.2	5848.2	5848.2	5848.2
2.5°	5877.7	5786.2	5647.4	5429.0	5219.4	5083.6	4953.7	4809.0	4729.3	4723.4	4679.1
5°	5948.5	5741.9	5411.2	5036.3	4634.8	4289.4	3941.1	3713.8	3510.1	3397.9	3377.2
7.5°	5986.9	5718.3	5183.9	4555.1	3870.2	3306.4	2916.7	2630.3	2518.2	2435.5	2432.5
10°	6066.6	5676.9	4844.4	3917.5	3070.2	2500.4	2231.8	2101.9	2039.9	2016.3	1980.9
12.5°	6125.7	5600.2	4496.1	3262.1	2426.6	2072.4	1954.3	1924.8	1927.7	1939.5	1924.8
15°	6208.3	5532.3	4026.7	2677.6	2037.0	1865.7	1865.7	1871.6	1913.0	1918.9	1915.9
17.5°	6202.4	5399.4	3542.5	2205.2	1800.8	1777.2	1786.0	1842.1	1868.7	1877.5	1856.9
20°	6273.3	5275.4	3043.6	1883.5	1667.9	1703.4	1762.4	1777.2	1809.7	1815.6	1791.9
22.5°	6252.6	4965.5	2580.2	1629.6	1567.6	1635.5	1694.5	1712.2	1703.4	1685.7	1682.7
25°	6214.2	4699.8	2155.0	1461.3	1493.8	1567.6	1623.7	1591.2	1573.5	1576.4	1579.4
27.5°	6146.3	4363.2	1803.7	1343.2	1393.4	1502.6	1499.7	1487.9	1505.6	1490.8	1505.6
30°	6134.5	4026.7	1514.4	1236.9	1319.6	1399.3	1405.2	1425.9	1446.5	1420.0	1446.5
32.5°	6152.2	3657.7	1307.8	1172.0	1275.3	1278.3	1343.2	1363.9	1349.1	1290.1	1296.0
35°	6288.0	3374.3	1157.2	1136.6	1204.5	1207.4	1269.4	1242.8	1177.9	1142.5	1163.1
37.5°	6574.4	3138.1	1086.4	1104.1	1110.0	1148.4	1151.3	1098.2	1104.1	1101.1	1112.9
40°	6940.4	2958.0	1036.2	1074.6	1068.7	1095.2	989.0	1018.5	1045.1	1053.9	1059.8
42.5°	7191.4	2828.1	1003.7	1027.3	1015.5	968.3	909.3	938.8	959.4	991.9	997.8
45°	7303.5	2724.8	965.3	944.7	944.7	859.1	835.5	841.4	888.6	924.0	918.1
47.5°	7120.5	2624.4	897.4	835.5	856.1	785.3	758.7	758.7	808.9	853.2	844.3
48°	7049.7	2583.1	900.4	811.8	826.6	773.5	746.9	741.0	797.1	838.4	838.4
50°	6698.4	2429.6	823.6	746.9	717.4	711.5	693.7	699.7	735.1	773.5	773.5
52.5°	6013.5	2099.0	696.7	640.6	587.5	622.9	631.8	619.9	637.7	673.1	670.1
55°	5018.6	1611.9	558.0	531.4	490.1	528.4	546.1	531.4	513.7	540.2	540.2
57.5°	3214.9	867.9	445.8	451.7	410.3	448.7	463.5	428.1	395.6	416.2	413.3
60°	1449.5	519.6	366.1	357.2	330.6	374.9	398.5	357.2	312.9	327.7	342.4
62.5°	543.2	369.0	277.5	271.6	265.7	307.0	318.8	286.4	242.1	250.9	253.9
65°	398.5	324.7	221.4	200.7	212.6	242.1	236.2	203.7	174.2	174.2	180.1
67.5°	339.5	283.4	180.1	156.5	156.5	159.4	147.6	129.9	121.0	126.9	132.8
70°	265.7	224.4	141.7	121.0	109.2	97.4	85.6	82.7	73.8	82.7	79.7
72.5°	171.2	150.6	109.2	91.5	82.7	67.9	56.1	53.1	44.3	41.3	41.3
75°	91.5	91.5	85.6	73.8	64.9	53.1	44.3	35.4	23.6	17.7	17.7
77.5°	64.9	70.9	76.8	70.9	59.0	44.3	35.4	23.6	11.8	5.9	5.9
80°	62.0	70.9	76.8	67.9	59.0	44.3	32.5	17.7	8.9	3.0	3.0
82.5°	56.1	64.9	70.9	62.0	53.1	38.4	29.5	17.7	8.9	3.0	3.0
85°	11.8	14.8	17.7	17.7	20.7	26.6	20.7	14.8	5.9	3.0	3.0
87.5°	8.9	8.9	8.9	8.9	8.9	8.9	5.9	5.9	3.0	3.0	3.0
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)