

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: P532050

Luminaire Tested: **GALN-SA7B-827-U-AFL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532050
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-28)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7B-827-U-AFL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26290 lumens
Efficiency: N/A
Efficacy: 91.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

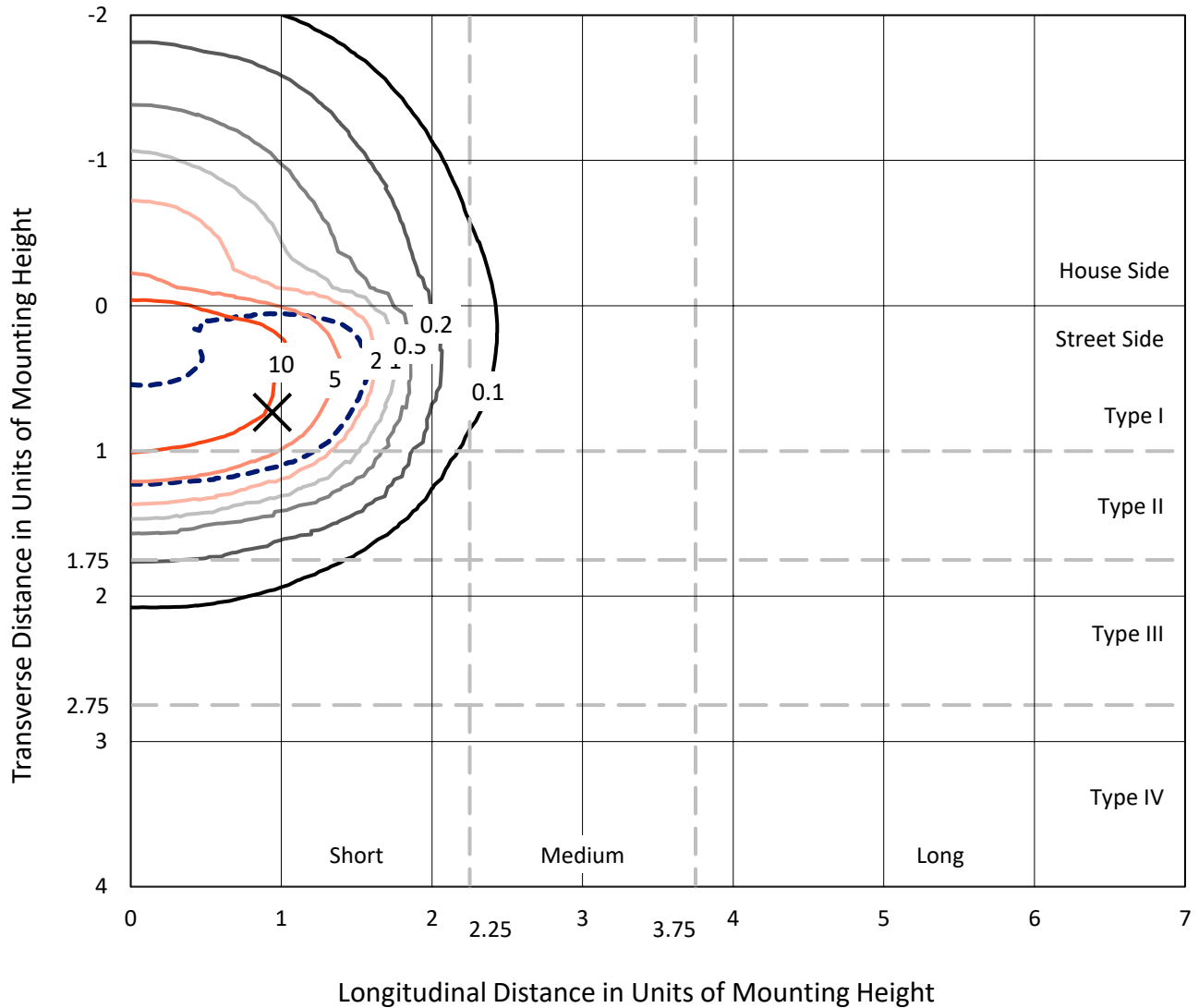
Input Watts (W): 286
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P532050
 CATALOG NUMBER: GALN-SA7B-827-U-AFL-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

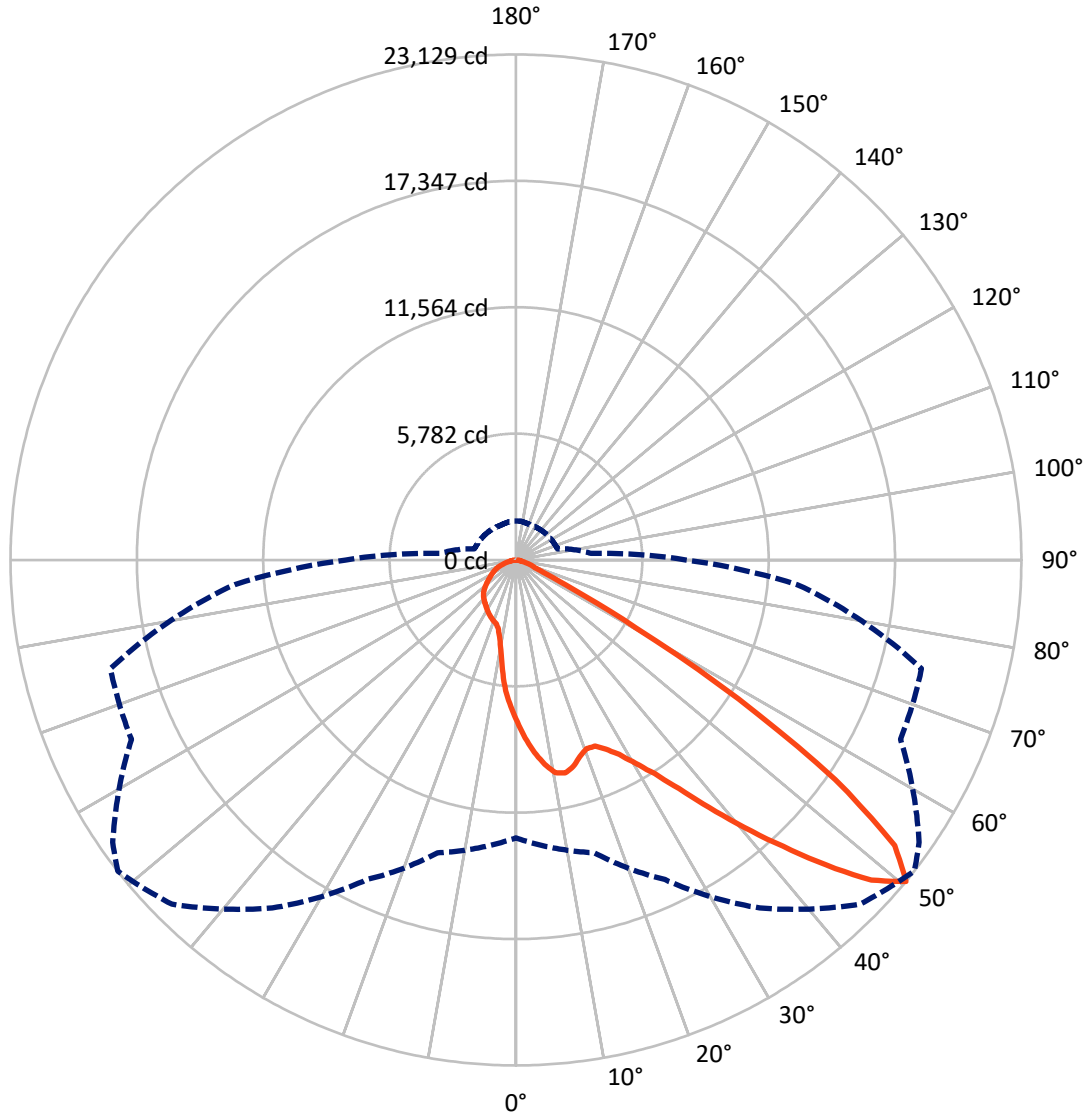
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.2 fc
 Type II - Short - N/A

REPORT NUMBER: P532050
CATALOG NUMBER: GALN-SA7B-827-U-AFL-GRSWH

Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

REPORT NUMBER: P532050
 CATALOG NUMBER: GALN-SA7B-827-U-AFL-GRSWH

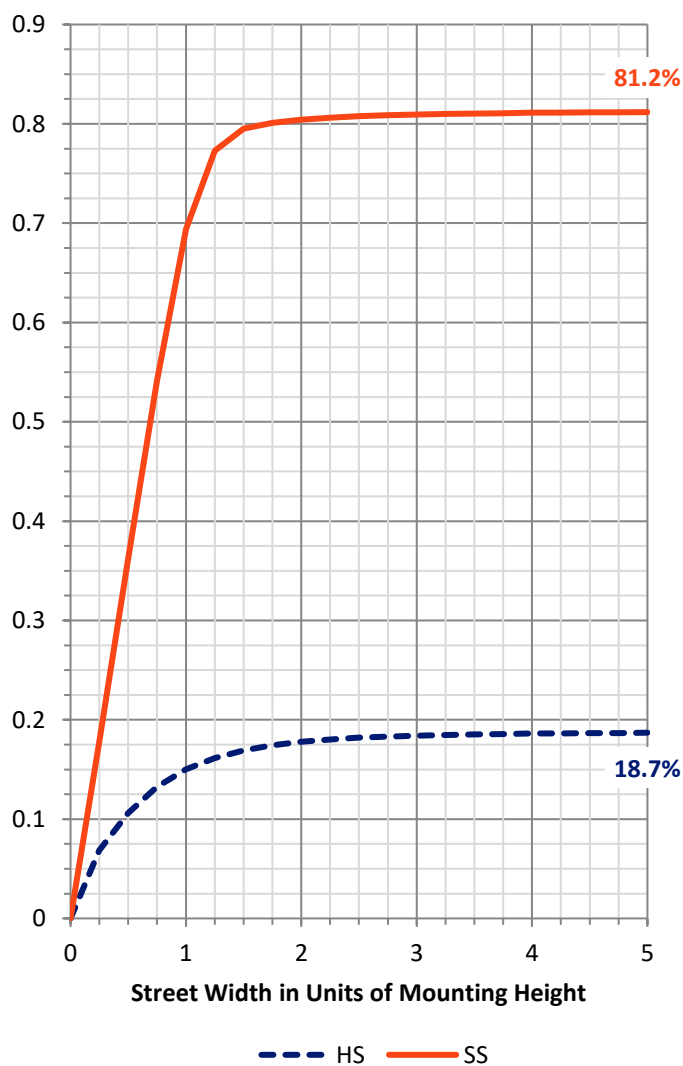
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4941.9	0.0	4941.9
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	21348.1	0.0	21348.1
	% Fixture	81.2	0.0	81.2
Total	Lumens	26290.0	0.0	26290.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	683.0	2.6
10°-20°	1830.7	7.0
20°-30°	3083.8	11.7
30°-40°	5174.8	19.7
40°-50°	7916.2	30.1
50°-60°	5771.6	22.0
60°-70°	1284.5	4.9
70°-80°	463.3	1.8
80°-90°	82.0	0.3
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°	26290.0	100.0
0°-180°	26290.0	100.0

Coefficient of Utilization



REPORT NUMBER: P532050

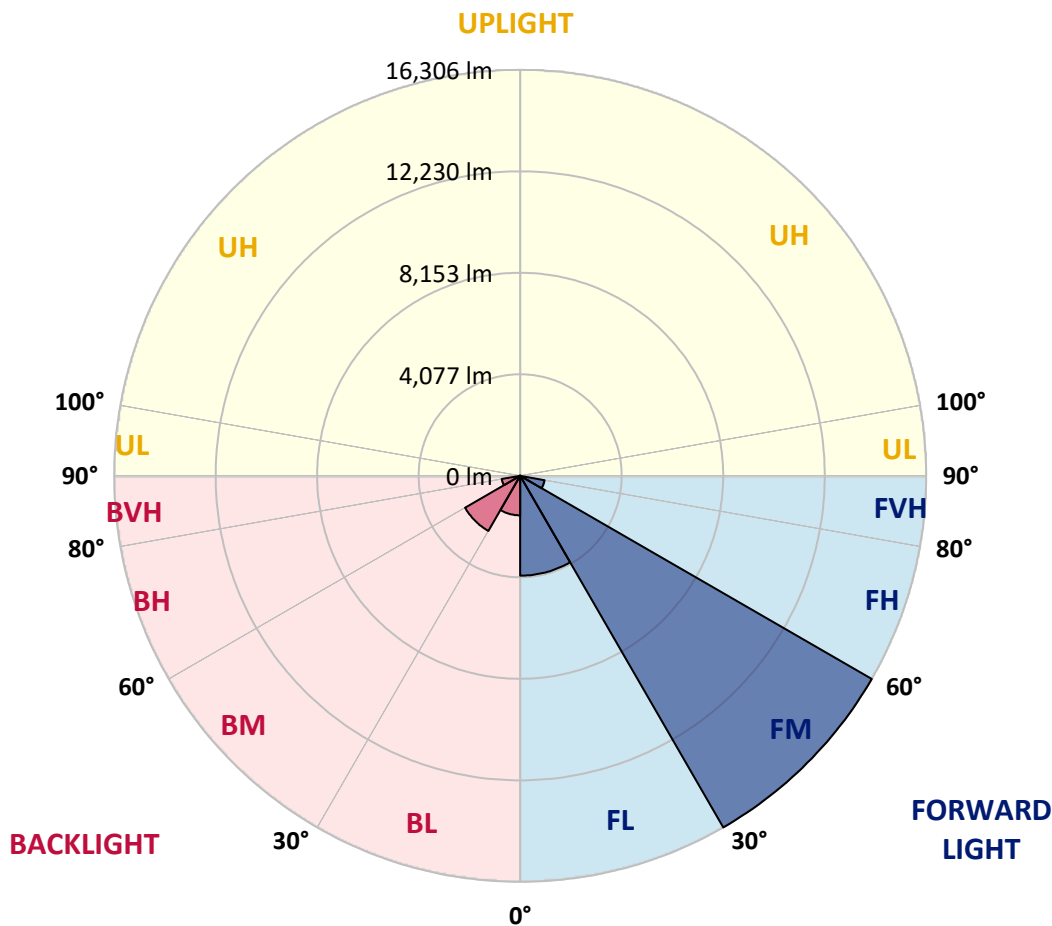
CATALOG NUMBER: GALN-SA7B-827-U-AFL-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4010.1	15.3			
FM (30°-60°)	16306.4	62.0			
FH (60°-80°)	994.8	3.8			G1/1800
FVH (80°-90°)	36.7	0.1			G1/100
BL (0°-30°)	1587.4	6.0	B3/2500		
BM (30°-60°)	2556.3	9.7	B3/5000		
BH (60°-80°)	752.9	2.9	B2/1000		G2/1000
BVH (80°-90°)	45.3	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type II Short





REPORT NUMBER: P532050

CATALOG NUMBER: GALN-SA7B-827-U-AFL-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	7410.7	7410.7	7410.7	7410.7	7410.7	7410.7	7410.7	7410.7	7410.7	7410.7	7410.7
2.5°	8725.6	8557.6	8576.7	8456.3	8326.4	8288.3	8155.3	8028.5	7933.5	7730.7	7543.8
5°	9536.7	9486.0	9409.9	9314.9	9216.7	8975.9	8839.6	8681.2	8332.7	8019.0	7708.5
7.5°	9653.9	9644.4	9685.6	9685.6	9720.4	9628.5	9435.3	9324.4	8953.7	8443.6	7867.0
10°	8830.1	8858.6	9058.2	9318.0	9679.2	9929.5	9897.9	9869.3	9463.8	8766.8	8053.9
12.5°	8174.3	8110.9	8228.1	8449.9	8991.7	9596.9	10005.6	10008.7	9904.2	9283.2	8190.1
15°	7803.6	7847.9	7879.6	7984.2	8392.9	9093.1	9812.3	10024.6	10484.0	9647.6	8405.6
17.5°	8041.2	7892.3	7886.0	7911.3	8120.4	8646.4	9454.3	9818.6	10800.8	10116.5	8671.7
20°	8351.7	8348.5	8259.8	8228.1	8225.0	8693.9	9219.8	9714.1	10968.7	10724.8	8941.0
22.5°	8896.7	8896.7	8750.9	8681.2	8532.3	8915.7	9251.5	9587.4	11247.6	11143.0	9070.9
25°	9809.1	9660.2	9409.9	9238.8	9153.3	9289.5	9587.4	9888.3	11491.5	11586.6	9340.2
27.5°	10651.9	10417.5	10293.9	9999.2	9885.2	9806.0	10078.4	10382.6	11776.7	12277.3	9486.0
30°	11608.7	11567.6	11345.8	10965.6	10683.6	10537.9	10788.2	11089.1	12299.4	12983.8	9821.8
32.5°	13319.6	12945.8	12644.8	12179.0	11719.6	11409.1	11656.3	11855.9	13167.6	13722.0	10189.3
35°	15166.8	15046.4	14526.8	13687.2	12983.8	12705.0	12850.7	12999.6	14178.3	14849.9	10807.2
37.5°	16982.2	16817.5	16389.8	15683.2	14827.8	14260.6	14365.2	14539.4	15312.5	16370.7	11561.2
40°	18287.6	18084.8	17869.4	17764.8	16915.7	16139.5	16079.3	16123.6	16846.0	17796.5	12397.7
42.5°	18382.6	18632.9	18699.5	19120.8	18921.2	18284.4	17913.7	17923.2	18309.8	19206.4	13243.6
45°	18183.0	17951.7	18442.8	19592.9	20251.9	20549.8	19925.6	19846.4	19215.9	20023.8	13665.0
47.5°	16088.8	16152.1	16982.2	18800.8	20705.0	22035.7	21890.0	21627.0	19700.7	19995.3	13598.5
50°	12717.7	13101.0	13870.9	16136.3	19437.7	22270.2	23128.8	22520.5	19412.3	19209.6	12920.4
52.5°	8468.9	8627.4	9134.3	12058.6	15629.4	19906.6	21703.0	21842.4	19146.2	18179.9	12061.8
55°	3770.3	3757.6	4470.5	6298.6	9806.0	15147.8	17733.1	18582.2	18122.8	17131.1	11225.4
57.5°	1596.8	1650.7	1942.2	2721.6	4822.2	9140.6	12014.3	12758.8	13937.5	14067.4	8611.5
60°	1080.4	1086.7	1165.9	1362.4	2018.2	4293.1	6301.8	7195.3	8038.0	7981.0	4568.7
62.5°	849.1	871.3	931.5	1010.7	1197.6	1948.5	2819.8	3317.2	3371.1	2835.7	1733.1
65°	725.5	728.7	788.9	855.4	937.8	1134.3	1359.2	1384.6	1400.4	1349.7	1273.7
67.5°	598.8	605.2	652.7	728.7	804.8	868.1	931.5	963.2	1036.0	1178.6	1159.6
70°	475.2	484.8	525.9	589.3	659.0	697.0	776.2	804.8	871.3	982.2	1026.5
72.5°	361.2	364.4	399.2	443.6	506.9	545.0	611.5	643.2	687.5	782.6	823.8
75°	259.8	269.3	294.7	316.8	326.3	351.7	415.1	449.9	513.3	554.5	557.6
77.5°	136.2	142.6	148.9	148.9	180.6	228.1	269.3	288.3	332.7	364.4	348.5
80°	53.9	57.0	72.9	98.2	126.7	164.8	193.3	202.8	240.8	259.8	269.3
82.5°	31.7	34.9	47.5	69.7	91.9	117.2	139.4	148.9	174.3	196.4	202.8
85°	15.8	19.0	28.5	44.4	60.2	72.9	69.7	66.5	66.5	63.4	66.5
87.5°	6.3	6.3	9.5	9.5	9.5	12.7	15.8	15.8	15.8	19.0	19.0
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°	7410.7	7410.7	7410.7	7410.7	7410.7	7410.7	7410.7	7410.7	7410.7	7410.7	7410.7
2.5°	7420.2	7293.5	7176.3	6960.8	6726.4	6659.8	6387.3	6289.1	6219.4	6137.0	6111.7
5°	7458.2	7290.3	6913.3	6479.2	6133.9	5690.3	5398.8	5085.2	4857.0	4800.0	4784.2
7.5°	7537.4	7249.1	6599.6	5943.8	5237.2	4635.3	4175.9	3928.7	3710.1	3697.4	3675.3
10°	7626.2	7125.6	6257.4	5227.7	4324.8	3767.1	3491.5	3383.8	3329.9	3317.2	3310.9
12.5°	7699.0	7100.2	5874.1	4530.7	3678.4	3342.6	3260.2	3250.7	3272.9	3279.2	3291.9
15°	7730.7	6998.8	5411.5	3906.5	3276.0	3152.5	3187.3	3225.4	3241.2	3282.4	3250.7
17.5°	7790.9	6868.9	4841.2	3412.3	3051.1	3073.3	3133.5	3177.8	3203.2	3231.7	3190.5
20°	7822.6	6751.7	4305.8	3117.6	2971.9	3013.1	3095.5	3130.3	3162.0	3174.7	3127.1
22.5°	7794.1	6510.9	3833.7	2880.0	2895.9	2949.7	3022.6	3060.6	3041.6	2990.9	2962.4
25°	7718.0	6171.9	3342.6	2727.9	2788.1	2883.2	2940.2	2911.7	2876.8	2848.3	2838.8
27.5°	7714.9	5756.8	2987.7	2588.5	2696.2	2826.1	2807.1	2781.8	2797.6	2775.5	2750.1
30°	7730.7	5354.5	2696.2	2509.3	2629.7	2693.1	2715.3	2689.9	2708.9	2667.7	2680.4
32.5°	7648.3	4961.6	2506.1	2417.4	2550.5	2547.3	2620.2	2639.2	2594.9	2509.3	2522.0
35°	7683.2	4644.8	2344.6	2376.2	2461.8	2461.8	2518.8	2496.6	2379.4	2328.7	2341.4
37.5°	7924.0	4334.3	2265.4	2319.2	2376.2	2401.6	2382.6	2287.5	2259.0	2259.0	2265.4
40°	8152.1	4068.1	2217.8	2306.5	2297.0	2312.9	2173.5	2183.0	2183.0	2186.1	2170.3
42.5°	8354.9	3887.5	2179.8	2230.5	2246.3	2164.0	2078.4	2068.9	2091.1	2087.9	2075.3
45°	8427.7	3738.6	2125.9	2145.0	2157.6	2021.4	1980.2	1961.2	1986.5	1996.0	2008.7
47.5°	8148.9	3615.1	2065.7	2027.7	2002.4	1913.7	1859.8	1825.0	1856.6	1910.5	1923.2
50°	7790.9	3453.5	1970.7	1897.8	1844.0	1805.9	1767.9	1733.1	1755.3	1793.3	1783.8
52.5°	7261.8	3200.0	1850.3	1774.3	1682.4	1691.9	1657.0	1638.0	1650.7	1650.7	1641.2
55°	6507.7	2629.7	1647.5	1593.7	1517.6	1543.0	1549.3	1524.0	1498.6	1520.8	1501.8
57.5°	4442.0	1856.6	1470.1	1470.1	1394.1	1428.9	1425.7	1365.5	1305.4	1311.7	1299.0
60°	2569.5	1479.6	1356.0	1343.4	1264.2	1292.7	1299.0	1257.8	1165.9	1172.3	1159.6
62.5°	1460.6	1264.2	1185.0	1165.9	1150.1	1175.4	1175.4	1121.6	1042.4	1048.7	1036.0
65°	1242.0	1172.3	1058.2	1055.1	1048.7	1055.1	1029.7	972.7	903.0	874.5	877.6
67.5°	1127.9	1083.6	972.7	944.2	925.2	922.0	874.5	820.6	788.9	763.6	760.4
70°	988.5	953.7	871.3	833.3	814.3	769.9	722.4	687.5	643.2	630.5	643.2
72.5°	782.6	779.4	747.7	706.5	665.3	630.5	589.3	541.8	500.6	491.1	468.9
75°	541.8	548.1	554.5	548.1	513.3	468.9	421.4	383.4	332.7	304.2	297.8
77.5°	354.9	364.4	373.9	361.2	339.0	297.8	266.1	218.6	180.6	158.4	155.2
80°	259.8	272.5	278.8	269.3	244.0	212.3	177.4	139.4	110.9	91.9	91.9
82.5°	199.6	212.3	218.6	202.8	177.4	152.1	126.7	98.2	76.0	60.2	57.0
85°	69.7	66.5	79.2	82.4	98.2	91.9	76.0	57.0	44.4	31.7	28.5
87.5°	19.0	19.0	22.2	22.2	19.0	15.8	15.8	15.8	12.7	9.5	9.5
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)