

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: P531964

Luminaire Tested: **GALN-SA7B-735-U-T3R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531964
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-12)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7B-735-U-T3R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32230 lumens
Efficiency: N/A
Efficacy: 112.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

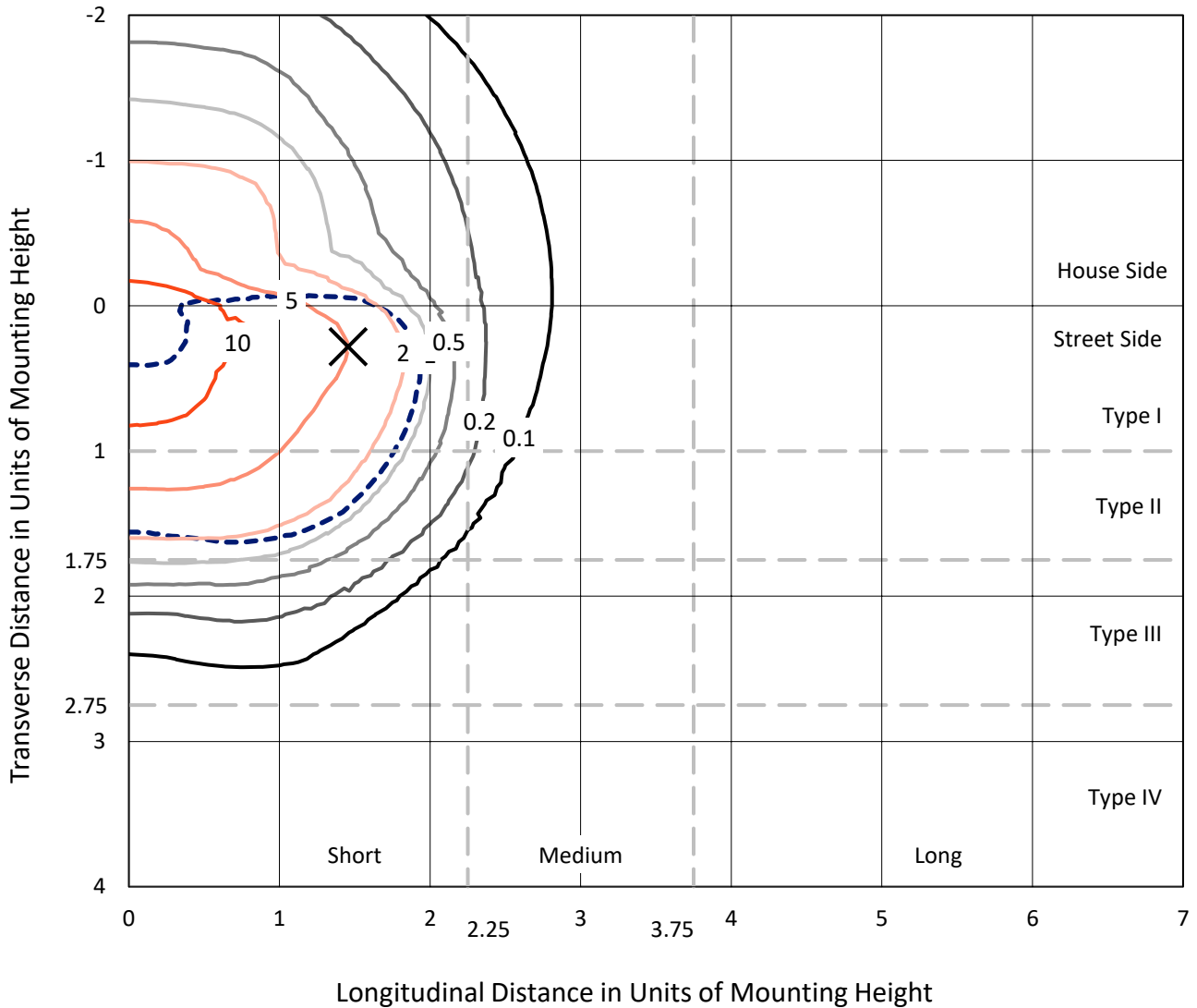
Input Watts (W): 286
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P531964
 CATALOG NUMBER: GALN-SA7B-735-U-T3R-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

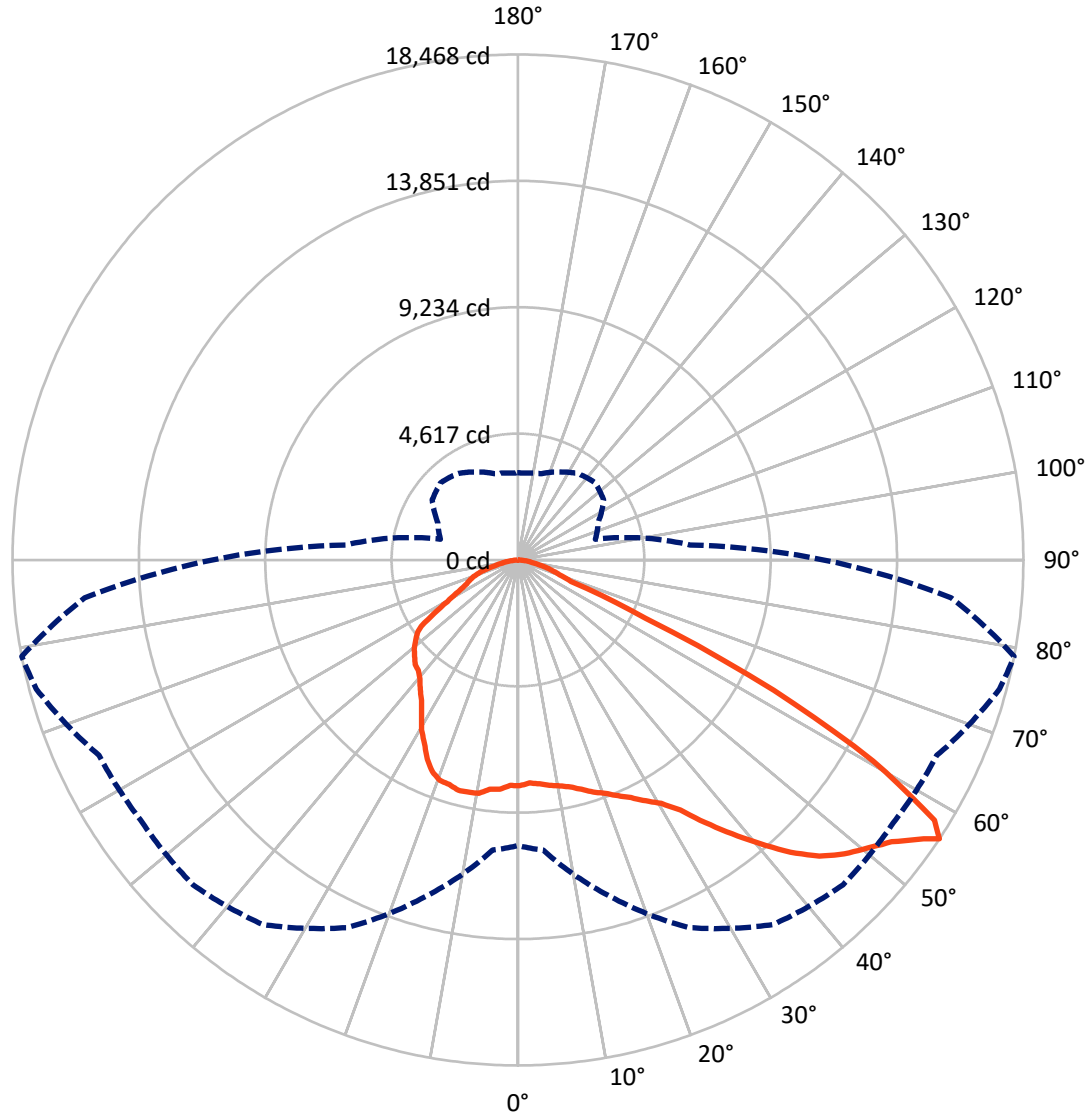
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.2 fc
 Type II - Short - N/A

REPORT NUMBER: P531964
CATALOG NUMBER: GALN-SA7B-735-U-T3R-GRSWH

Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

REPORT NUMBER: P531964
 CATALOG NUMBER: GALN-SA7B-735-U-T3R-GRSWH

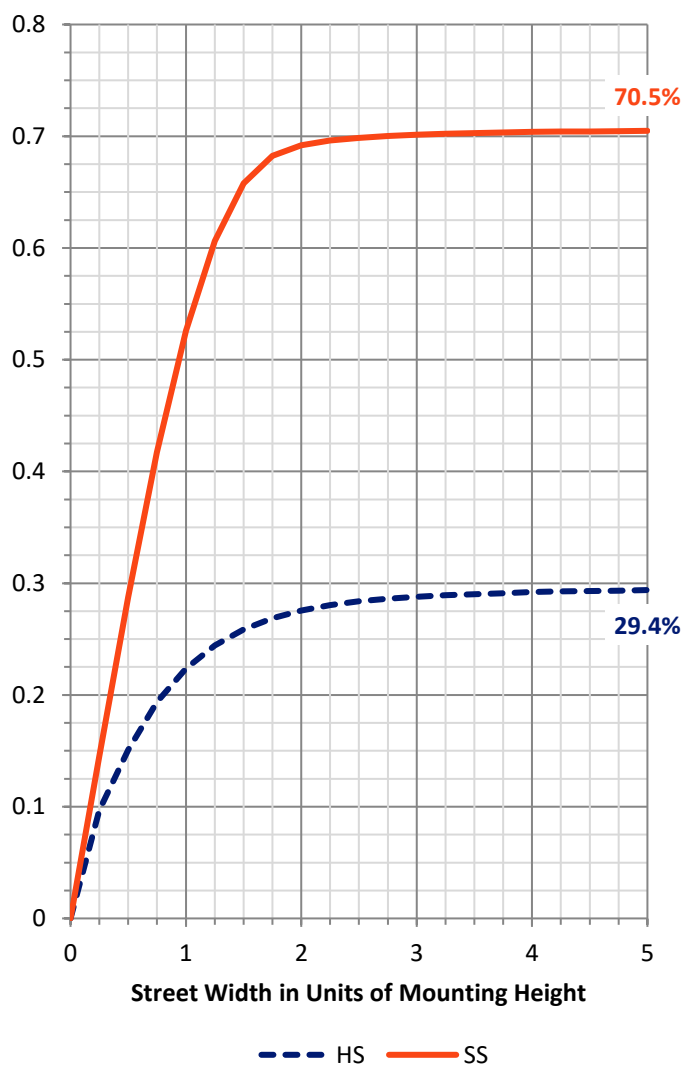
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9518.2	0.0	9518.2
	% Fixture	29.5	0.0	29.5
Street Side	Lumens	22711.8	0.0	22711.8
	% Fixture	70.5	0.0	70.5
Total	Lumens	32230.0	0.0	32230.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	749.8	2.3
10°-20°	2051.9	6.4
20°-30°	3510.3	10.9
30°-40°	5380.0	16.7
40°-50°	7271.1	22.6
50°-60°	8351.1	25.9
60°-70°	3806.7	11.8
70°-80°	938.5	2.9
80°-90°	170.6	0.5
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°	32230.0	100.0
0°-180°	32230.0	100.0

Coefficient of Utilization



REPORT NUMBER: P531964

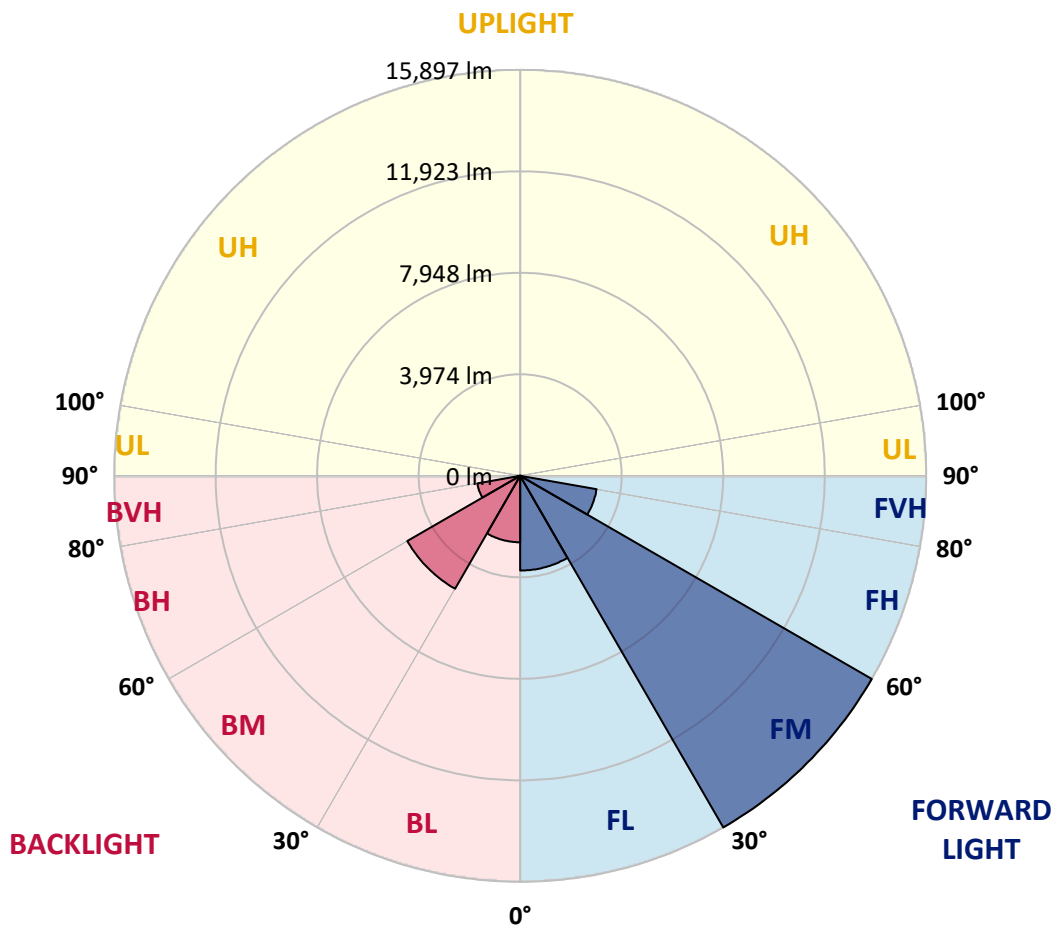
CATALOG NUMBER: GALN-SA7B-735-U-T3R-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3708.3	11.5			
FM (30°-60°)	15896.8	49.3			
FH (60°-80°)	3038.6	9.4			G2/5000
FVH (80°-90°)	68.1	0.2			G1/100
BL (0°-30°)	2603.6	8.1	B4/5000		
BM (30°-60°)	5105.4	15.8	B4/8500		
BH (60°-80°)	1706.7	5.3	B3/2500		G3/2500
BVH (80°-90°)	102.5	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G3

Type II Short





REPORT NUMBER: P531964

CATALOG NUMBER: GALN-SA7B-735-U-T3R-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	8246.4	8246.4	8246.4	8246.4	8246.4	8246.4	8246.4	8246.4	8246.4	8246.4	8246.4
2.5°	7844.9	7824.8	7873.0	7909.1	7953.3	8009.5	8037.6	8053.7	8194.2	8158.1	8266.5
5°	7676.3	7624.1	7660.2	7688.3	7764.6	7832.9	7909.1	8029.6	8158.1	8214.3	8346.8
7.5°	7527.7	7499.6	7491.6	7511.7	7616.1	7704.4	7836.9	8013.5	8222.3	8314.6	8390.9
10°	7282.8	7242.7	7302.9	7435.4	7463.5	7648.2	7800.7	8053.7	8234.3	8394.9	8619.8
12.5°	7174.4	7134.3	7146.3	7222.6	7419.3	7596.0	7776.7	8061.7	8443.1	8507.3	8808.5
15°	7347.1	7306.9	7319.0	7298.9	7487.6	7579.9	7865.0	8222.3	8587.6	8696.0	9017.2
17.5°	7740.5	7744.5	7692.3	7648.2	7604.0	7800.7	7997.5	8318.6	8643.8	8916.9	9157.7
20°	8491.3	8358.8	8254.4	8005.5	7937.2	8021.6	8270.5	8579.6	8872.7	9097.5	9370.5
22.5°	9069.4	9081.5	8932.9	8523.4	8374.9	8411.0	8623.8	8876.7	9197.9	9358.5	9671.6
25°	9908.5	9824.2	9663.6	9338.4	9005.2	9033.3	9189.9	9418.7	9507.0	9619.4	9960.7
27.5°	10675.3	10699.4	10382.2	10077.1	9663.6	9583.3	9864.3	9904.5	9755.9	9968.7	10085.2
30°	11454.2	11434.1	11225.4	10868.0	10462.5	10478.6	10603.1	10406.3	10201.6	10318.0	10398.3
32.5°	12261.2	12032.3	12024.3	11703.1	11394.0	11245.4	11092.9	11189.2	10872.1	10896.1	10819.9
35°	12907.6	12939.7	12755.0	12526.1	12373.6	12112.6	11695.1	11867.7	11807.5	11779.4	11450.2
37.5°	13377.3	13252.8	13345.2	13268.9	13124.4	12799.2	12365.6	12530.2	12558.3	12694.8	12313.4
40°	13762.7	13710.5	13955.4	13995.6	13895.2	13192.6	12413.7	12903.5	13325.1	13622.2	13168.5
42.5°	13947.4	14059.8	14316.7	14625.9	14401.1	13650.3	12662.7	13188.6	14128.0	14597.8	13979.5
45°	14196.3	14051.8	14433.2	14999.3	15003.3	14035.7	12903.5	13574.0	14754.4	15436.9	14533.5
47.5°	13943.4	14015.6	14409.1	15127.7	15312.4	14441.2	13553.9	14120.0	15444.9	16051.1	15047.4
50°	13377.3	13521.8	14240.5	14987.2	15545.3	14870.8	14300.7	14710.2	16083.3	16545.0	15131.7
52.5°	12787.1	12867.4	13991.5	15095.6	15649.7	15424.8	15300.4	15525.2	16862.1	17103.0	15236.1
55°	11181.2	11562.6	13168.5	15047.4	16159.5	16424.5	16328.2	16657.4	17745.4	17986.3	15806.2
56°	10438.5	10639.2	12674.7	14822.6	16259.9	16789.9	16741.7	16890.2	18215.1	18468.0	15894.6
57.5°	9065.4	9081.5	10807.8	13826.9	15882.5	16898.3	16850.1	16966.5	18122.8	17950.1	15119.7
60°	5672.9	5921.8	7355.1	10635.2	13505.8	15677.8	15950.8	15015.3	15280.3	14914.9	11763.3
62.5°	2938.8	2902.7	3854.2	6218.9	8965.0	11225.4	11478.3	11434.1	11024.6	10490.6	7684.3
65°	1465.4	1473.4	2015.4	3079.3	4592.9	5877.7	6584.3	6660.5	5572.5	5126.9	3645.4
67.5°	1063.9	1104.1	1449.3	1882.9	2164.0	2420.9	2966.9	2910.7	2204.1	2095.7	1943.2
70°	827.0	863.2	1176.3	1437.3	1304.8	1304.8	1421.2	1469.4	1569.8	1613.9	1666.1
72.5°	602.2	630.3	899.3	991.7	855.2	919.4	1063.9	1176.3	1280.7	1296.8	1357.0
75°	413.5	437.6	590.2	546.0	513.9	634.3	778.9	883.3	959.5	999.7	1035.8
77.5°	269.0	277.0	337.2	285.1	329.2	409.5	505.9	594.2	670.5	702.6	710.6
80°	120.4	132.5	144.5	180.7	228.8	293.1	361.3	433.6	481.8	493.8	517.9
82.5°	68.3	68.3	88.3	128.5	168.6	212.8	261.0	313.2	369.4	381.4	377.4
85°	36.1	36.1	52.2	76.3	104.4	124.5	120.4	124.5	132.5	152.6	148.5
87.5°	12.0	12.0	16.1	16.1	20.1	24.1	20.1	28.1	36.1	36.1	36.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P531964

CATALOG NUMBER: GALN-SA7B-735-U-T3R-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8246.4	8246.4	8246.4	8246.4	8246.4	8246.4	8246.4	8246.4	8246.4	8246.4	8246.4
2.5°	8234.3	8270.5	8222.3	8326.7	8326.7	8306.6	8206.2	8238.4	8262.4	8262.4	8282.5
5°	8390.9	8378.9	8411.0	8286.5	8210.2	8182.1	8017.5	7937.2	7869.0	7865.0	7804.8
7.5°	8479.2	8447.1	8435.1	8342.7	8005.5	7800.7	7447.4	7242.7	7198.5	7041.9	7102.2
10°	8619.8	8680.0	8619.8	8117.9	7648.2	7178.4	6833.2	6516.0	6391.5	6291.2	6231.0
12.5°	8908.8	8880.7	8531.4	7852.9	7194.5	6636.4	6122.6	5789.3	5664.9	5576.5	5568.5
15°	9153.7	9013.2	8479.2	7435.4	6487.9	5893.7	5472.2	5235.3	5179.1	5187.1	5223.2
17.5°	9238.0	9141.7	8206.2	7001.8	5962.0	5263.4	5066.7	5030.5	5082.7	5142.9	5159.0
20°	9370.5	9218.0	8093.8	6411.6	5311.6	4869.9	4857.9	4986.4	5082.7	5171.1	5183.1
22.5°	9647.5	9262.1	7728.5	5853.6	4865.9	4753.5	4869.9	4978.3	5126.9	5199.2	5134.9
25°	9727.8	9165.8	7214.6	5183.1	4584.9	4681.2	4805.7	4954.3	5058.6	5098.8	5126.9
27.5°	9796.1	9017.2	6520.0	4737.5	4496.6	4677.2	4805.7	4930.2	4986.4	5022.5	5054.6
30°	9988.8	8973.1	5917.8	4440.4	4440.4	4596.9	4761.5	4793.7	4869.9	4914.1	4970.3
32.5°	10085.2	8667.9	5299.5	4251.7	4384.2	4637.1	4649.1	4709.3	4713.4	4749.5	4689.3
35°	10338.1	8451.1	4725.4	4115.2	4408.2	4596.9	4657.2	4621.0	4424.3	4327.9	4348.0
37.5°	10522.8	8342.7	4311.9	4099.1	4412.3	4641.1	4673.2	4400.2	4195.5	4034.9	4075.0
40°	11020.6	8073.7	3998.7	4071.0	4448.4	4689.3	4601.0	4303.9	3934.5	3769.9	3741.8
42.5°	11402.0	7881.0	3802.0	4038.9	4476.5	4757.5	4564.8	4111.1	3733.8	3581.2	3621.3
45°	11843.6	7836.9	3697.6	4046.9	4524.7	4793.7	4520.7	3962.6	3561.1	3500.9	3488.9
47.5°	12000.2	7519.7	3585.2	3978.7	4512.6	4781.6	4372.1	3850.2	3496.9	3504.9	3537.0
50°	11739.2	7194.5	3500.9	3838.1	4432.3	4673.2	4139.2	3701.6	3460.7	3561.1	3617.3
52.5°	11406.0	6861.3	3328.3	3649.4	4267.7	4504.6	4030.9	3693.6	3424.6	3392.5	3404.5
55°	11506.4	6588.3	3087.4	3392.5	4002.7	4191.4	3910.4	3617.3	3336.3	3215.8	3256.0
56°	11181.2	6307.2	2930.8	3231.9	3822.1	3990.7	3850.2	3549.1	3264.0	3183.7	3183.7
57.5°	10261.8	5363.8	2726.0	2975.0	3440.7	3641.4	3733.8	3508.9	3183.7	3043.2	3047.2
60°	7567.9	3814.1	2445.0	2621.7	2850.5	3011.1	3440.7	3396.5	2983.0	2886.6	2850.5
62.5°	4665.2	2786.3	2244.3	2312.5	2428.9	2561.4	3003.1	3075.3	2770.2	2665.8	2641.7
65°	2613.6	2131.9	2091.7	2119.8	2176.0	2244.3	2493.2	2653.8	2445.0	2284.4	2276.4
67.5°	1911.0	1907.0	1939.1	1963.2	1987.3	1987.3	2047.5	2111.8	2083.7	1955.2	1943.2
70°	1698.3	1710.3	1734.4	1738.4	1746.4	1718.3	1670.2	1650.1	1682.2	1601.9	1585.8
72.5°	1401.2	1441.3	1469.4	1473.4	1429.3	1393.1	1328.9	1260.6	1236.6	1220.5	1216.5
75°	1076.0	1104.1	1116.1	1112.1	1096.0	1043.8	967.6	899.3	855.2	807.0	831.1
77.5°	726.7	766.8	786.9	786.9	762.8	682.5	646.4	594.2	550.0	497.8	505.9
80°	509.9	538.0	570.1	566.1	525.9	485.8	433.6	385.4	349.3	309.1	305.1
82.5°	381.4	397.5	413.5	405.5	377.4	337.2	301.1	256.9	216.8	188.7	188.7
85°	136.5	148.5	180.7	188.7	204.8	204.8	172.6	144.5	116.4	96.4	96.4
87.5°	40.1	40.1	44.2	44.2	40.1	44.2	36.1	40.1	44.2	28.1	28.1
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)