

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: P532700

Luminaire Tested: **GALN-SA8A-750-U-AFL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532700
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-SA8A-750-U-AFL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 5000K, 615mA 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: 33322 lumens
Efficiency: N/A
Efficacy: 136.6 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

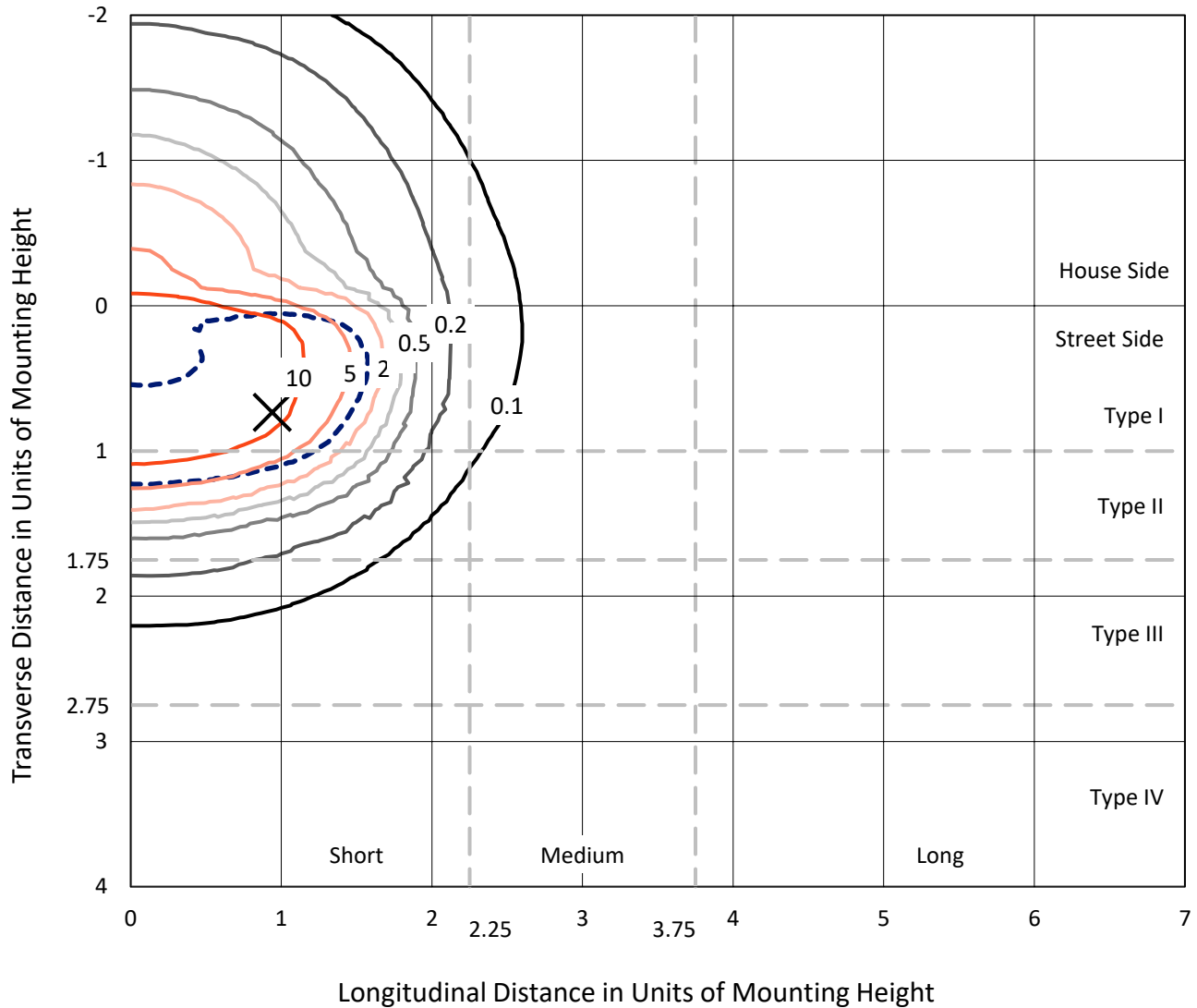
Input Watts (W): 244
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P532700
 CATALOG NUMBER: GALN-SA8A-750-U-AFL-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

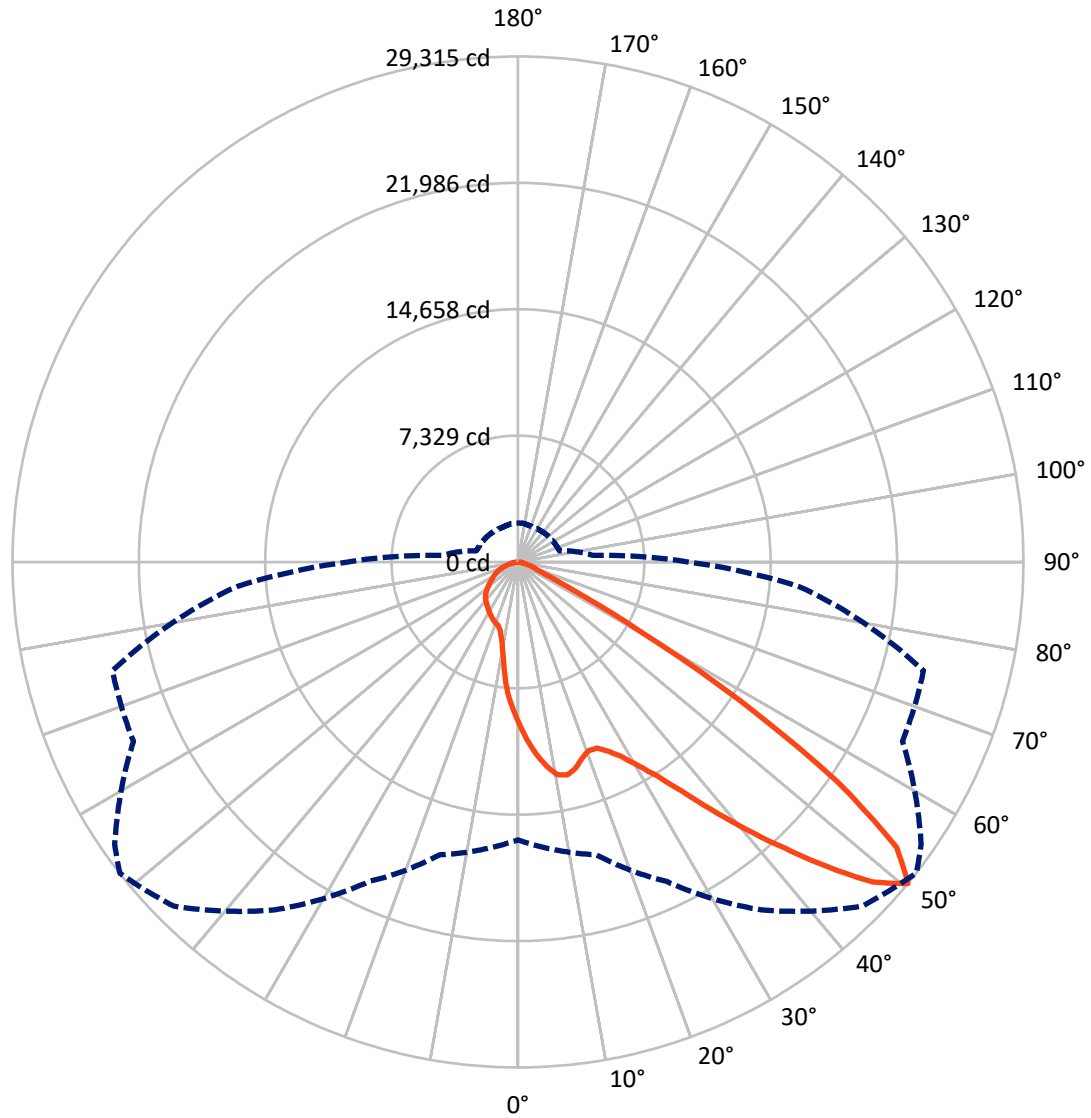
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.2 fc
 Type II - Short - N/A

REPORT NUMBER: P532700
CATALOG NUMBER: GALN-SA8A-750-U-AFL-GRSWH

Luminous Intensity Polar Plot



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

REPORT NUMBER: P532700

CATALOG NUMBER: GALN-SA8A-750-U-AFL-GRSWH

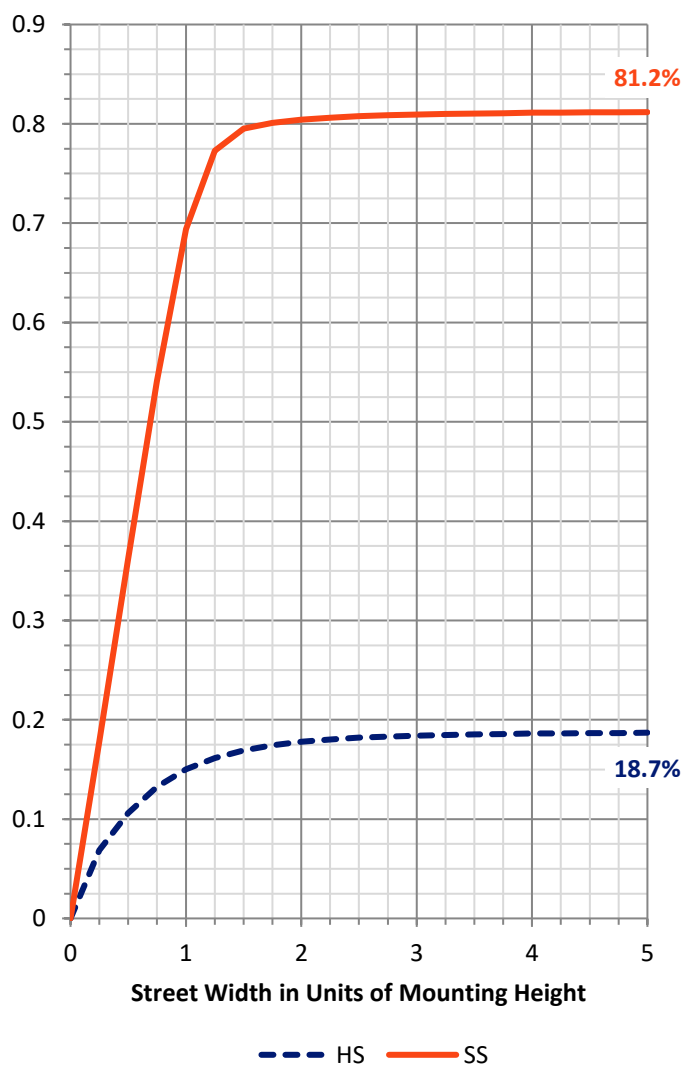
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6263.8	0.0	6263.8
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	27058.3	0.0	27058.3
	% Fixture	81.2	0.0	81.2
Total	Lumens	33322.0	0.0	33322.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	865.7	2.6
10°-20°	2320.4	7.0
20°-30°	3908.6	11.7
30°-40°	6559.0	19.7
40°-50°	10033.7	30.1
50°-60°	7315.4	22.0
60°-70°	1628.0	4.9
70°-80°	587.2	1.8
80°-90°	103.9	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°	33322.0	100.0
0°-180°	33322.0	100.0

Coefficient of Utilization



REPORT NUMBER: P532700

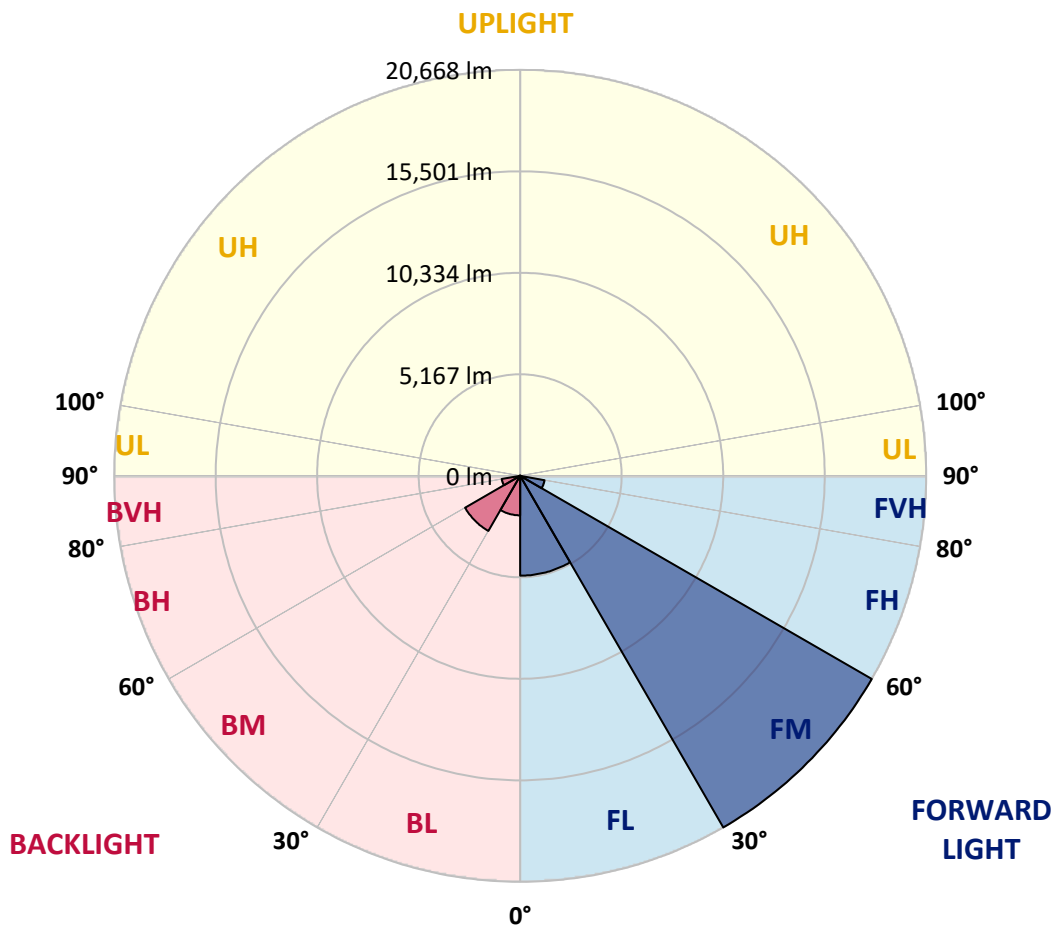
CATALOG NUMBER: GALN-SA8A-750-U-AFL-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5082.7	15.3			
FM (30°-60°)	20668.0	62.0			
FH (60°-80°)	1260.9	3.8			G1/1800
FVH (80°-90°)	46.6	0.1			G1/100
BL (0°-30°)	2012.0	6.0	B3/2500		
BM (30°-60°)	3240.0	9.7	B3/5000		
BH (60°-80°)	954.3	2.9	B2/1000		G2/1000
BVH (80°-90°)	57.4	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: P532700

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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	9392.9	9392.9	9392.9	9392.9	9392.9	9392.9	9392.9	9392.9	9392.9	9392.9	9392.9
2.5°	11059.5	10846.6	10870.7	10718.1	10553.5	10505.3	10336.6	10176.0	10055.5	9798.5	9561.6
5°	12087.5	12023.3	11926.9	11806.4	11681.9	11376.7	11204.0	11003.2	10561.5	10163.9	9770.4
7.5°	12236.1	12224.0	12276.3	12276.3	12320.4	12204.0	11959.0	11818.5	11348.6	10702.1	9971.2
10°	11192.0	11228.1	11481.1	11810.4	12268.2	12585.5	12545.3	12509.2	11995.1	11111.7	10208.1
12.5°	10360.7	10280.4	10429.0	10710.1	11396.8	12163.8	12681.8	12685.9	12553.3	11766.2	10380.8
15°	9890.9	9947.1	9987.3	10119.8	10637.8	11525.3	12436.9	12705.9	13288.2	12228.1	10653.9
17.5°	10192.1	10003.3	9995.3	10027.4	10292.5	10959.1	11983.1	12444.9	13689.8	12822.4	10991.2
20°	10585.6	10581.6	10469.1	10429.0	10425.0	11019.3	11685.9	12312.4	13902.6	13593.4	11332.5
22.5°	11276.3	11276.3	11091.6	11003.2	10814.5	11300.4	11726.1	12151.8	14256.0	14123.5	11497.2
25°	12432.9	12244.1	11926.9	11710.0	11601.6	11774.3	12151.8	12533.3	14565.2	14685.7	11838.5
27.5°	13501.1	13203.9	13047.3	12673.8	12529.2	12428.9	12774.2	13159.7	14926.7	15561.2	12023.3
30°	14713.8	14661.6	14380.5	13898.6	13541.2	13356.5	13673.7	14055.2	15589.3	16456.7	12448.9
32.5°	16882.4	16408.5	16027.0	15436.7	14854.4	14460.8	14774.1	15027.1	16689.6	17392.4	12914.8
35°	19223.6	19071.0	18412.4	17348.2	16456.7	16103.3	16288.0	16476.8	17970.6	18822.0	13697.8
37.5°	21524.6	21315.8	20773.7	19878.1	18793.9	18075.0	18207.6	18428.4	19408.3	20749.6	14653.6
40°	23179.1	22922.1	22649.0	22516.5	21440.3	20456.4	20380.1	20436.3	21351.9	22556.7	15713.8
42.5°	23299.6	23616.8	23701.2	24235.3	23982.3	23175.1	22705.2	22717.3	23207.2	24343.7	16786.0
45°	23046.6	22753.4	23375.9	24833.6	25668.9	26046.4	25255.3	25154.9	24355.7	25379.8	17320.1
47.5°	20392.2	20472.5	21524.6	23829.7	26243.2	27929.8	27745.1	27411.7	24970.1	25343.6	17235.7
50°	16119.4	16605.3	17581.1	20452.4	24636.8	28226.9	29315.2	28544.2	24604.7	24347.7	16376.4
52.5°	10734.2	10935.0	11577.5	15284.1	19809.9	25231.2	27508.1	27684.8	24267.4	23042.6	15288.1
55°	4778.8	4762.7	5666.3	7983.4	12428.9	19199.5	22476.3	23552.6	22970.3	21713.3	14227.9
57.5°	2024.0	2092.2	2461.7	3449.6	6112.0	11585.5	15227.9	16171.6	17665.4	17830.1	10914.9
60°	1369.4	1377.4	1477.8	1726.8	2558.1	5441.4	7987.4	9119.8	10188.0	10115.8	5790.8
62.5°	1076.2	1104.3	1180.6	1281.0	1518.0	2469.7	3574.0	4204.5	4272.8	3594.1	2196.6
65°	919.6	923.6	999.9	1084.3	1188.7	1437.7	1722.8	1754.9	1775.0	1710.7	1614.3
67.5°	759.0	767.0	827.3	923.6	1020.0	1100.3	1180.6	1220.8	1313.2	1493.9	1469.8
70°	602.4	614.4	666.6	746.9	835.3	883.5	983.9	1020.0	1104.3	1244.9	1301.1
72.5°	457.8	461.8	506.0	562.2	642.5	690.7	775.0	815.2	871.4	991.9	1044.1
75°	329.3	341.3	373.5	401.6	413.6	445.8	526.1	570.2	650.6	702.8	706.8
77.5°	172.7	180.7	188.7	188.7	228.9	289.1	341.3	365.4	421.7	461.8	441.7
80°	68.3	72.3	92.4	124.5	160.6	208.8	245.0	257.0	305.2	329.3	341.3
82.5°	40.2	44.2	60.2	88.3	116.5	148.6	176.7	188.7	220.9	249.0	257.0
85°	20.1	24.1	36.1	56.2	76.3	92.4	88.3	84.3	84.3	80.3	84.3
87.5°	8.0	8.0	12.0	12.0	12.0	16.1	20.1	20.1	20.1	24.1	24.1
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	9392.9	9392.9	9392.9	9392.9	9392.9	9392.9	9392.9	9392.9	9392.9	9392.9	9392.9
2.5°	9405.0	9244.3	9095.8	8822.7	8525.5	8441.2	8095.8	7971.3	7883.0	7778.6	7746.4
5°	9453.2	9240.3	8762.4	8212.3	7774.6	7212.3	6842.9	6445.3	6156.2	6083.9	6063.8
7.5°	9553.6	9188.1	8364.9	7533.6	6638.1	5875.1	5292.8	4979.6	4702.5	4686.4	4658.3
10°	9666.0	9031.5	7931.2	6626.0	5481.5	4774.8	4425.4	4288.9	4220.6	4204.5	4196.5
12.5°	9758.4	8999.4	7445.3	5742.6	4662.3	4236.7	4132.2	4120.2	4148.3	4156.3	4172.4
15°	9798.5	8870.9	6859.0	4951.5	4152.3	3995.7	4039.9	4088.1	4108.1	4160.4	4120.2
17.5°	9874.8	8706.2	6136.1	4325.0	3867.2	3895.3	3971.6	4027.8	4060.0	4096.1	4043.9
20°	9915.0	8557.6	5457.5	3951.5	3766.8	3819.0	3923.4	3967.6	4007.8	4023.8	3963.6
22.5°	9878.8	8252.4	4859.1	3650.3	3670.4	3738.7	3831.1	3879.2	3855.2	3790.9	3754.8
25°	9782.5	7822.7	4236.7	3457.6	3533.9	3654.4	3726.6	3690.5	3646.3	3610.2	3598.1
27.5°	9778.4	7296.7	3786.9	3280.9	3417.4	3582.1	3558.0	3525.9	3545.9	3517.8	3485.7
30°	9798.5	6786.7	3417.4	3180.5	3333.1	3413.4	3441.5	3409.4	3433.5	3381.3	3397.4
32.5°	9694.1	6288.7	3176.5	3064.0	3232.7	3228.7	3321.1	3345.1	3288.9	3180.5	3196.6
35°	9738.3	5887.1	2971.7	3011.8	3120.3	3120.3	3192.5	3164.4	3015.9	2951.6	2967.7
37.5°	10043.5	5493.6	2871.3	2939.6	3011.8	3044.0	3019.9	2899.4	2863.3	2863.3	2871.3
40°	10332.6	5156.3	2811.0	2923.5	2911.4	2931.5	2754.8	2766.9	2766.9	2770.9	2750.8
42.5°	10589.6	4927.4	2762.9	2827.1	2847.2	2742.8	2634.4	2622.3	2650.4	2646.4	2630.3
45°	10682.0	4738.6	2694.6	2718.7	2734.7	2562.1	2509.9	2485.8	2517.9	2529.9	2546.0
47.5°	10328.6	4582.0	2618.3	2570.1	2538.0	2425.5	2357.3	2313.1	2353.2	2421.5	2437.6
50°	9874.8	4377.2	2497.8	2405.5	2337.2	2289.0	2240.8	2196.6	2224.7	2272.9	2260.9
52.5°	9204.2	4055.9	2345.2	2248.8	2132.4	2144.4	2100.3	2076.2	2092.2	2092.2	2080.2
55°	8248.4	3333.1	2088.2	2019.9	1923.6	1955.7	1963.7	1931.6	1899.5	1927.6	1903.5
57.5°	5630.1	2353.2	1863.3	1863.3	1766.9	1811.1	1807.1	1730.8	1654.5	1662.5	1646.5
60°	3256.8	1875.4	1718.8	1702.7	1602.3	1638.4	1646.5	1594.3	1477.8	1485.8	1469.8
62.5°	1851.3	1602.3	1501.9	1477.8	1457.7	1489.9	1489.9	1421.6	1321.2	1329.2	1313.2
65°	1574.2	1485.8	1341.3	1337.3	1329.2	1337.3	1305.1	1232.8	1144.5	1108.4	1112.4
67.5°	1429.6	1373.4	1232.8	1196.7	1172.6	1168.6	1108.4	1040.1	999.9	967.8	963.8
70°	1252.9	1208.8	1104.3	1056.2	1032.1	975.8	915.6	871.4	815.2	799.1	815.2
72.5°	991.9	987.9	947.7	895.5	843.3	799.1	746.9	686.7	634.5	622.4	594.3
75°	686.7	694.7	702.8	694.7	650.6	594.3	534.1	485.9	421.7	385.5	377.5
77.5°	449.8	461.8	473.9	457.8	429.7	377.5	337.3	277.1	228.9	200.8	196.8
80°	329.3	345.4	353.4	341.3	309.2	269.1	224.9	176.7	140.6	116.5	116.5
82.5°	253.0	269.1	277.1	257.0	224.9	192.8	160.6	124.5	96.4	76.3	72.3
85°	88.3	84.3	100.4	104.4	124.5	116.5	96.4	72.3	56.2	40.2	36.1
87.5°	24.1	24.1	28.1	28.1	24.1	20.1	20.1	20.1	16.1	12.0	12.0
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)